Appendix A
Scoping Report

HEARTLAND HYDROGEN PROJECT

Scoping Report

EIR No. 7564
CUP Nos. 3630 and 3631 and Variance Application No. 4122
State Clearinghouse No. 2022100609

Prepared for
County of Fresno Department of Public Works and Planning, Development Services and Capital Projects Division

December 2022

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Development Services and Capital
Projects Division

December 2022

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201900482

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SCOPING REPORT
Heartland Hydrogen Project

1. Introduction

This report provides an overview of the comments received by the County of Fresno Department of Public Works and Planning, Development Services and Capital Projects Division (County) during the public scoping period for the Environmental Impact Report (EIR) that the County is preparing for the Heartland Hydrogen Project (Project), EIR No. 7564.[1]

Pursuant to the California Environmental Quality Act (CEQA) Guidelines Section 15083, a "Lead Agency may…consult directly with any person…it believes will be concerned with the environmental effects of the project." Scoping is the process of early consultation with affected agencies and the public prior to completion of a Draft EIR. Section 15083(a) states that scoping can be "helpful to agencies in identifying the range of actions, alternatives, mitigation measures, and significant effects to be analyzed in depth in an EIR and in eliminating from detailed study issues found not to be important." Scoping is an effective way to bring together and consider the concerns of affected State, regional, and local agencies, the Project proponent, and other interested stakeholders (CEQA Guidelines §15083(b)). Scoping is not conducted to resolve differences concerning the merits of a project or to anticipate the ultimate decision on a proposal. Rather, the purpose of scoping is to determine the scope of information and analysis to be included in an EIR and, thereby, to ensure that an appropriately comprehensive and focused EIR will be prepared that provides a firm basis for informed decision-making. Comments outside of the scope of CEQA will not be addressed through the CEQA process.

This report is intended for use by the County in preparing the EIR as formal documentation of initial input received from governmental agencies, the public, and other stakeholders regarding the range of actions, alternatives, mitigation measures, and significant effects to be analyzed in depth in the EIR. It also provides access for other agencies and members of the public to comments received during the scoping period.

[1] The County of Fresno Department of Public Works and Planning is the lead agency for the preparation of an EIR for the Project pursuant to the California Environmental Quality Act (CEQA) and its implementing regulations (the CEQA Guidelines).

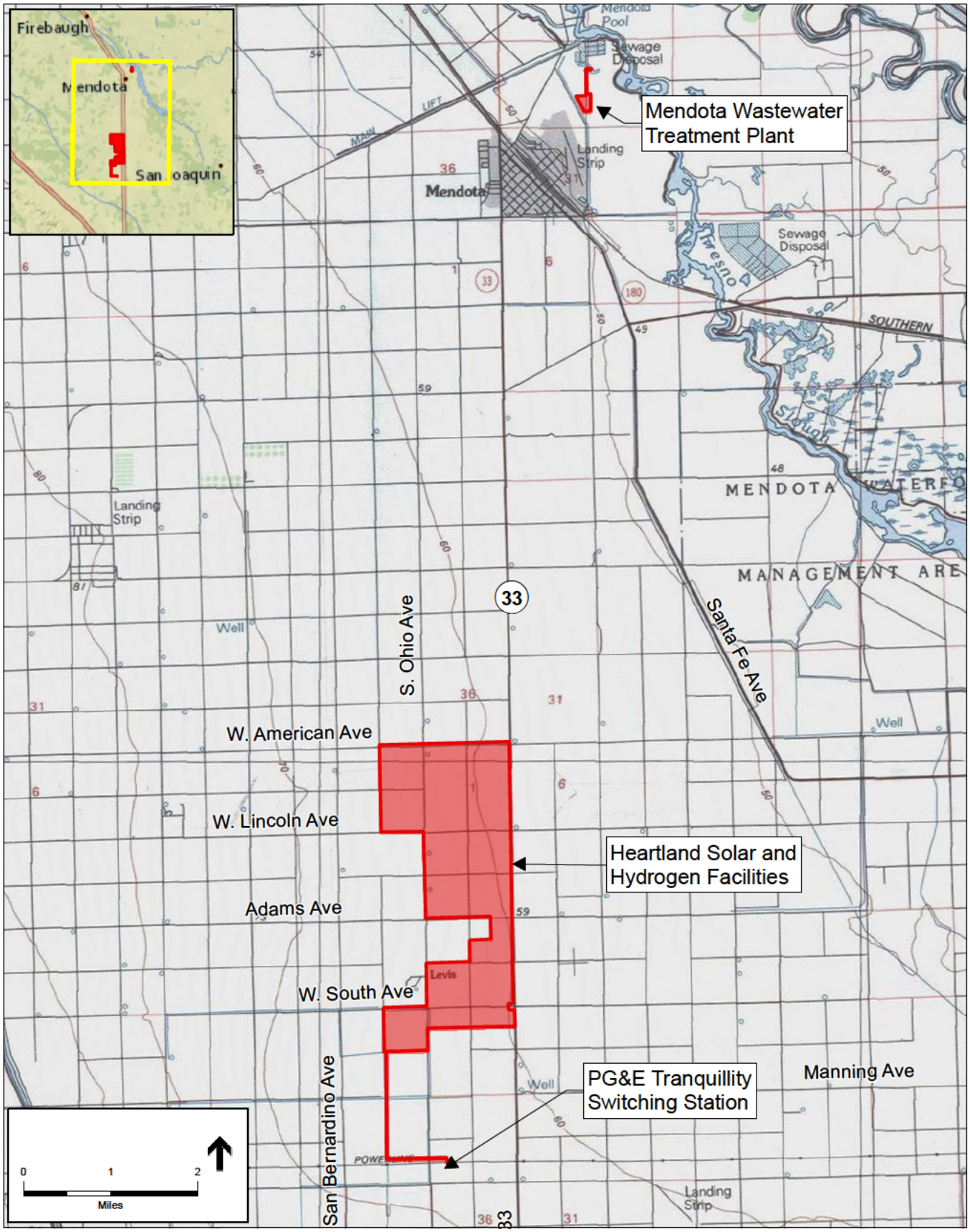
2. Description of the Project

Project Summary

Heartland Hydrogen, LLC and Heartland Solar 1, LLC (the Applicants) have submitted applications to the County for two Unclassified Conditional Use Permits (CUPs) and a variance to construct, operate, and ultimately decommission facilities to generate hydrogen fuel from renewable sources using photovoltaic (PV) solar energy and treated wastewater in western Fresno County. The Project consists of three main components: hydrogen fuel generation, solar energy generation, and tertiary wastewater treatment. Hydrogen fuel production and solar energy generation would occur on land currently owned by the Westlands Water District (WWD) in western Fresno County. As part of the Project, a tertiary wastewater treatment facility would be constructed in the City of Mendota at the existing Mendota Wastewater Treatment Plant (MWTP). The tertiary treated wastewater would be trucked from the MWTP to a site located approximately 6.5 miles south of the City of Mendota, and immediately west of State Route 33 (SR 33, also called S. Derrick Avenue). At this site, supplemental water treatment, PV solar energy generation, and hydrogen generation would occur through electrolysis process. An electrical interconnection service line would connect the proposed solar facility to the existing Tranquillity Switching Station, which is located approximately 1.25 miles to the south.

Project Location

The "Project site" includes two locations: one in unincorporated Fresno County (currently owned by WWD) and the City of Mendota-owned property within the MWTP in the City of Mendota. Together the sites proposed for Project development and use total approximately 2,371 acres. The tertiary wastewater treatment facility would occupy approximately 0.5-acres of a 14-acre parcel within the fence line of the existing wastewater treatment plant located at 3699 Bass Avenue in the City of Mendota. The proposed hydrogen and solar facilities site would be located approximately 6.5 miles southwest of the City of Mendota, 10 miles east of Interstate 5 (I-5), to the east of S. San Bernardino and Los Angeles avenues, south of W. American Avenue, west of SR 33, 0.5 mile north of Manning Avenue, and 1.25 miles north of the Tranquillity Switching Station. The site would also be located across SR 33 from the existing Adams East Solar facility and immediately north of the existing Luna Valley Solar facility. Site access would be via W. Adams Avenue at one of two property entry points. See **Figure 1**, *Heartland Hydrogen Project Site Location*.



SOURCE: USGS 7.5' Topographic Quadrangle (Coit Ranch, CA; Levis, CA; Mendota Dam, CA)

Heartland Hydrogen Project. 201900482

Figure 1
Project Location

3. Opportunities for Public Comment

Notification

On October 24, 2022, the County published and distributed a Notice of Preparation (NOP) to advise interested local, regional, state, and federal agencies, as well as the public, that an EIR would be prepared for the Project. The NOP was sent to a mailing list that included Tribes; local, state, and federal agencies; 185 property owners within an area that included the properties within 1 mile of the Project site; other interested parties; and the Governor's Office of Planning and Research, State Clearinghouse. The NOP also was emailed to all on the distribution list for whom the County had an email address and posted with the Fresno County Clerk. The NOP, NOP mailing list, and a copy of the e-mail notification are provided in **Exhibit A**, *Notice of Preparation*. The NOP solicited comments on the scope, content, and format of the EIR. Agencies and members of the public were encouraged to submit their comments to the County by U.S. mail, e-mail, or orally at the public scoping meeting. An electronic copy of the NOP and information about a public scoping meeting for the Project also were posted on the County's website at: www.co.fresno.ca.us/EIR (see **Exhibit B**, *Electronic Access*).

In addition to the NOP, the County notified the public about the public scoping meeting, scheduled for November 8, 2022, through a newspaper legal advertisement published in The Fresno Business Journal on October 24, 2022 (see **Exhibit C**, *Newspaper Notification*). The notification provided basic Project information, the date, time, and participation information for a virtual public scoping meeting, and a brief explanation of the public scoping process.

Public Scoping Meeting

The County conducted a virtual public scoping meeting on Tuesday, November 8, 2022 from 10 a.m. to 10:30 a.m. The meeting presentation included an overview of the Project, the County's land use and permitting process, and the CEQA process. Under County policy, the Department of Public Works and Planning is responsible for the preparation of environmental documents prior to granting discretionary approval of private projects and is serving as Lead Agency for the purposes of CEQA. The scoping meeting participants included: Jeremy Shaw and Raymond Martin of the Fresno County Department of Public Works and Planning; and Janna Scott, Maria Hensel, Steven Johnson, and Natasha Kabala of ESA. Five members of the public attended the scoping meeting. No comments, oral or written, were received during the meeting. The scoping meeting presentation and transcript of the presentation are provided in **Exhibit D**.

4. Summary of Scoping Comments

All scoping comments received on or before end of the scoping period are documented in this Scoping Report and will be considered in the preparation of the EIR. Seven comment letters were received during the scoping period. **Table 1** lists the names of commenting parties in the order in which the comments were received. The County has reviewed and relied upon the full text of the comment letters in preparing the EIR; summaries of the environmental issues raised are provided below for ease in review by other agencies and members of the public. The letters are provided in **Exhibit E**, *Scoping Input Received*.

TABLE 1
PARTIES SUBMITTING COMMENTS DURING THE HEARTLAND HYDROGEN PROJECT EIR SCOPING PROCESS

Name	Organization/Affiliation	Letter ID	Date
Written Comments			
Nicholas Isla, Transportation Planner	California Department of Transportation	A	November 8, 2022
Olu Oladimeji for Chris Jones, Acting District Deputy	California Department of Conservation, Geologic Energy Management Division	B	November 11, 2022
	California Department of Conservation, WellSTAR	C	November 11, 2022
Brian Clements for Mark Montelongo, Program Manager	San Joaquin Valley Air Pollution Control District	D	November 17, 2022
Samantha McCarty, Cultural Specialist	Santa Rosa Rancheria Tachi-Yokut Tribe	E	November 17, 2022
Julia A. Vance, Regional Manager	California Department of Fish and Wildlife	F	November 22, 2022
Russ Freeman, P.E. Deputy General Manager of Resources	Westland Water District	G	November 22, 2022

Scoping input received by the County identifies potential impacts in the areas summarized below.

Air Quality

Concerns regarding the Project's potential impact on air quality were raised in Letter D by the San Joaquin Valley Air Pollution Control District (SJVAPCD). Letter D states, based on an initial review, that emissions resulting from construction and/or operation of the Project may exceed the air quality thresholds as identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts. SJVAPCD recommends that a more detailed review be conducted for the Project that considers construction emissions separately from operational emissions. To mitigate operational emissions, SJVAPCD recommends the incorporation of design elements such as the use of cleaner Heavy Heavy-Duty (HHD) trucks and vehicles, measures that reduce Vehicle Miles Traveled (VMTs), and measures that increase energy efficiency. SJVAPCD further recommends that the County consider use of the cleanest reasonably available off-road construction equipment to reduce impacts from construction related diesel exhaust emissions. Letter D recommends that criteria pollutant emissions from construction and operational sources be quantified, and that emissions analysis be performed using CalEEMod. If the Project is expected to have a significant impact, SJVAPCD recommends the EIR include a discussion on the feasibility of implementing a Voluntary Emission Reduction Agreement (VERA) for the Project.

The District recommends the Project be evaluated for potential health impacts to surrounding receptors (on-site and off-site) resulting from operational and multi-year construction toxic air contaminant (TAC) emissions, including from diesel exhaust. The SJVAPCD recommends conducting a "Prioritization" using the California Air Pollution Control Officers Association's (CAPCOA) methodology determine if it is necessary to conduct a health risk assessment (HRA).

If the Prioritization score is determined to be 10 or greater, then an HRA is recommended. The SJVAPCD recommends contacting the district to review the proposed modeling protocol prior to performing an HRA. If the emissions exceed 100 pounds per day of any pollutant, then the SJVAPCD recommends that an ambient air quality analysis (AAQA) be performed.

Letter D also identifies SJVAPCD rules and regulations applicable to the Project including: District Rules 2010 and 2201 (Authority to Construct [ATC] and Permit to Operate [PTO]), District Rule 9510 (to submit an Air Impact Assessment [AIA] application), District Rule 4601 (Architectural Coatings), District Regulation VIII (Fugitive PM10 Prohibitions), Rule 4102 (Nuisance), and Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations).

Biological Resources

Letter F, from the California Department of Fish and Wildlife (CDFW), suggests that several special status species have the potential to be impacted by Project activities. The letter also discusses the artificial ponds within the Mendota Wastewater Treatment Plant (MWTP) that may have suitable habitat for special status species. The Swanson's Hawk (SWHA) has been documented on the Project site and its surrounding area. CDFW recommends that a qualified biologist perform a survey for nesting SWHA using the methodology developed by the SWHA Technical Advisory Committee. Letter F recommends that the following SWHA mitigation measures be considered in the Draft EIR: SWHA Surveys Prior to Construction, SWHA Avoidance Buffer, SWHA Take Authorization, and SWHA Foraging Habitat Mitigation.

Letter F indicates that state special status species including giant garter snake and western pond turtle have been documented adjacent to the MWTP. CDFW recommends that a qualified biologist conduct a habitat assessment within and around the MWTP. If suitable special status reptile and amphibian habitats are found, Letter F recommends the coordination with CDFW for guidance on mitigation measures.

Letter F also identifies CDFW rules and regulations that may be applicable to the Project. Fish and Game Code section 1600 et seq. (including Fish and Game Code section 1602) outline rules and regulations related to land and streambed alteration. Special status species detected during project surveys should be reported to CNDDB. The EIR should evaluate potential impacts to lakes or streams to avoid need of a subsequent CEQA analysis to support a Lake and Streambed Alteration Agreement.

Letter E, by the Santa Rosa Rancheria Tachi-Yokut Tribe, requests that revegetation occur using native plant species only, and that revegetation species include salt grass (*Distichlis spicata*).

Cultural Resources

Letter E, by the Santa Rosa Rancheria Tachi-Yokut Tribe, discusses tribal land and discovery. It requests: 1) an archaeological record search, 2) an archeological survey, 3) a Sacred Lands File search through the Native American Heritage Commission, and 4) that all construction staff be present for a pre-construction cultural presentation. To mitigate anticipated impacts to cultural

resources, Letter E also requests that an archaeological monitor and native American monitor be present for all ground disturbing activities and (as noted above in the context of Biological resources) that revegetation efforts be limited to native plant species including salt grass.

Utilities and Service Systems

Letter G, from WWD, confirms that the Project lands are not furnished with water and would not receive an allocation of groundwater pursuant to the Regulations for the Groundwater Allocation Program and Use of Groundwater within the Westside Subbasin. Letter G stated that the applicant may be eligible to receive water through the District's Municipal and Industrial (M&I) water services. If the M&I application is approved, then the land would have access to WWD's distribution system and would be subject to WWD's Regulations, Terms and Conditions for M&I use, including the District's ability to provide up to 5 acre-feet annually per 160 acres, for solar developments. If the Project requires additional water, then the applicant would be responsible for acquiring it. The applicant would be responsible for connection to the District's distribution system if there is not an existing delivery turnout, and would need to comply with WWD's backflow prevention guidelines. Since the Project site is located near the District's distribution system Laterals 6L, 7L, and 8L, WWD recommends that Underground Service Alert (811) be contacted prior to construction. District lateral easement(s) would be needed before Project features could cross WWD's distribution system laterals. Also included with Letter G are the District rules and regulations that may be applicable to the Project, specifically: Article 19. Regulations Regarding the Application for and use of Municipal and Industrial Water within Westlands Water District, and Terms and Conditions for Municipal and Industrial Water Service.

Hazards and Hazardous Materials

Letter B, from the California Department of Conservation, Geologic Energy Management Division (CalGEM), indicates there is one known oil or gas well located within the Project boundary. CalGEM advises against building over, or in any way impeding access to, oil, gas, or geothermal wells. CalGEM recommends if any wells are encountered during development activities that were not part of this review, the property owner should take specified further action. In addition to CalGEM's authority pursuant to Public Resources Code Section 3106, it has the authority to order work on wells pursuant to Public Resources Code Sections 3208.1 and 3224.

Letter C notified the County that a construction site well review report has been completed and provided a California Department of Conservation WellSTAR link to the County to access the report.

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Exhibit A
Notice of Preparation

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NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND PUBLIC SCOPING MEETING FOR THE HEARTLAND HYDROGEN PROJECT

TO: Responsible and Trustee Agencies, other interested agencies, and members of the public

FROM: County of Fresno, Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Sixth Floor
Fresno, CA 93721

SUBJECT: Notice of Preparation of Draft Environmental Impact Report (EIR) No. 7564 for the Heartland Hydrogen Project

Date: October 24, 2022

Action: The County of Fresno (County) will be the Lead Agency pursuant to the California Environmental Quality Act (CEQA) and responsible for preparing an EIR pursuant to CEQA and the CEQA Guidelines that analyzes potential impacts of the requested Conditional Use Permits and Variance Application.

Project Title: Heartland Hydrogen Project, Unclassified Conditional Use Permit Application Nos. 3630 and 3631 and Variance Application No. 4122

Project Applicants: Plug Project Holding Co., LLC and Heartland Solar 1, LLC

Project Summary and Location

The Applicants propose to construct, operate, maintain, and eventually decommission facilities to generate hydrogen fuel from renewable sources (photovoltaic solar energy and treated wastewater) on approximately 2,371 acres in western Fresno County. The Project would rely on the proposed solar facility to convert sunlight into electricity, which would be used to power the hydrogen facility that would split the recycled water into hydrogen and oxygen (electrolysis). The hydrogen, solar, and tertiary wastewater treatment facilities together constitute the Heartland Hydrogen Project (Project). The Project also includes an approximate 1.25-mile electrical interconnection service line to the existing Tranquillity Switching Station, a second transmission line internal to the solar/hydrogen site to provide power from the solar facility to the hydrogen facility, and other associated facilities and infrastructure. The Project would be capable of producing approximately 30,000 kilograms per day of renewable or "green" hydrogen for zero-emission transportation fuel to be used by fuel-cell electric vehicles operating statewide.

Hydrogen fuel production and solar energy generation would occur on privately owned, disturbed agricultural land currently owned by the Westlands Water District; tertiary wastewater treatment would occur at a new facility to be built within the existing Mendota Wastewater Treatment Plant (MWTP). The hydrogen and solar facilities site is located in an unincorporated area 10 miles east of Interstate 5, east of Los Angeles Avenue, south of W. American Avenue, west of State Route 33 (SR 33, also called S. Derrick Avenue), north of Manning Avenue, and 1.25 miles north of PG&E's existing Tranquillity Switching Station. The tertiary wastewater treatment facility would be located within the fence line of the existing MWTP located at 3699 Bass Avenue, Mendota. The Project site includes the locations in the County and in the City.

The Applicants' Project Description, site plan, and a location map are available for review at:

- Fresno County Public Works and Planning Department, 2220 Tulare Street, Fresno, CA 93721
- Fresno County website: www.co.fresno.ca.us/EIR

Written Comments

This Notice of Preparation (NOP) solicits comments from Responsible and Trustee Agencies and other public agencies so that project-related concerns relevant to each agency's statutory responsibilities can be addressed in the EIR. This NOP also solicits input from other interested parties, including Tribes and members of the public. The County requests that potential Responsible or Trustee Agencies responding to this NOP reply in a manner consistent with CEQA Guidelines Section 15082(b), which anticipates submittal of any input in response to an NOP no later than 30 days after receipt of the NOP. Comments in response to this NOP will be accepted through 5 p.m., Tuesday, November 22, 2022.

Please send written scoping input to:

Attn: Jeremy Shaw
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Sixth Floor
Fresno, CA 93721
Phone: (559) 600-4207 Fax: (559) 600-4200
Email: jshaw@FresnoCountyCA.gov

Please reference EIR #7564, Heartland Hydrogen Project. Please include your name, address, and phone number and/or email address so that we may contact you for clarification, if necessary.

Signature: Maria Hensel (ESA)
for Fresno County **Date:** October 24, 2022

Public Scoping Meeting

The CEQA process encourages comments and questions from the public throughout the planning process. Consistent with the CEQA and Section 15083(c)(1), (2)(A) to (D) of the CEQA Guidelines, a Public Scoping Meeting will be held to solicit public and agency comments (oral and/or written) on the proposed scope and content of the Draft EIR. The Public Scoping Meeting will be held online on:

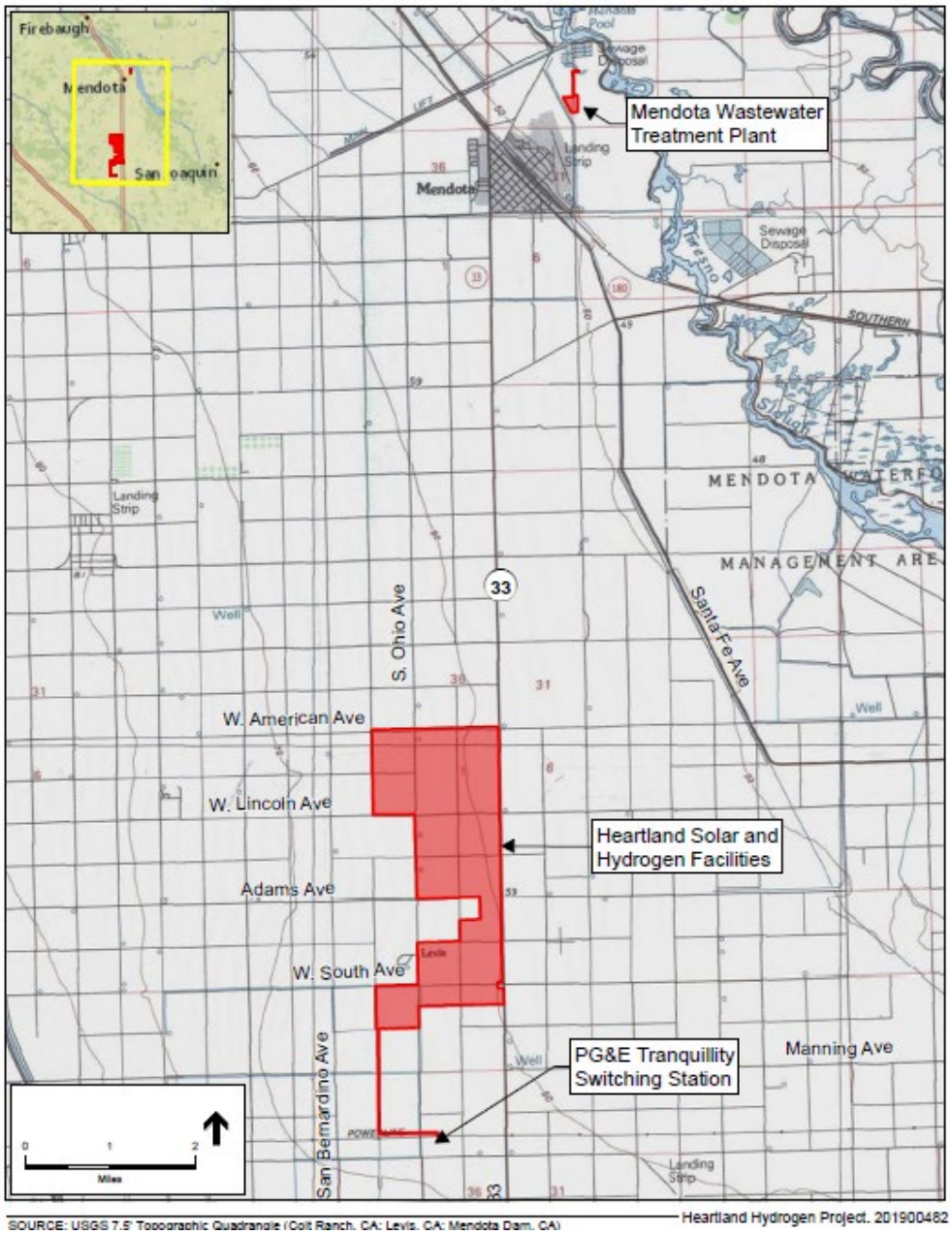
Date: Tuesday, November 8, 2022
Time: 10 a.m.
If joining from a computer: https://bit.ly/HeartlandScopingMtg (Webinar ID: 864 4985 8167)

If joining by phone: (888) 788-0099 (Meeting ID: 864 4985 8167)

Project Location

The Project site includes an unincorporated area of western Fresno County and an area in the City of Mendota. The portion of the Project site in the unincorporated County includes the Heartland Hydrogen Facility sited on parcel (APN) 028-160-17 and the Heartland Solar Facility sited on the following APNs: 028-140-38, 028-140-23, 028-140-32, 028-140-36, 028-140-37, 028-160-16, 028-160-17, 028-160-19, 028-160-20, 028-160-22, 028-170-17, 028-170-18, 028-170-41, 028-170-42, 028-170-43, 028-170-44, 028-170-45, 028-170-46, 028-170-47, 028-170-48, 028-170-60, 028-170-61, 028-060-32, 028-060-33, and 028-060-41. The City of Mendota portion of the Project site where the tertiary wastewater treatment facility would be located is comprised of APN 013-020-06T. The nearest communities to the Project site include Tranquillity, Mendota, and San Joaquin. See Figure 1, *Project Location*.

Figure 1, Project Location



Physical Setting

The hydrogen and solar facilities site (Hydrogen-Solar Site) has been retired from irrigated agriculture due to lack of drainage services and salt accumulation in the soil; irrigation is legally precluded on many of its parcels. Over the last 15 years, the Hydrogen-Solar Site has been intermittently dry-farmed for grain or forage crops or has lain fallow. Abandoned piping and other irrigation and drainage features are present throughout the Hydrogen-Solar Site. The land does not receive an allocation of surface water from WWD. When not being dry-farmed, WWD cultivates the site to control weeds and pests. The Hydrogen-Solar Site is identified in a report by representatives of the agricultural community, solar industry, and environmental organizations as a Priority Least Conflict Area: the lowest priority for conservation of agricultural and environmental resources under the applicable classification program. Agricultural uses surround this site to the north, east, south, and west. The Adams East Solar Project is located to the east, the Tranquillity Solar Project and Tranquillity Switching Station

to the south, and individual residences to the west. The tertiary wastewater treatment facility site is within the existing MWTP, and surrounded by MWTP-related uses.

Land Use Designation

The Hydrogen-Solar Site is designated as Agriculture in the Fresno County General Plan, and zoned AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) pursuant to the County's Zoning Map. The AE District is intended to be an exclusive district for agriculture and for those uses which are necessary and an integral part of the agricultural operation. This district is intended to protect the general welfare of the agricultural community from encroachments of non-related agricultural uses which by their nature, would be injurious to the physical and economic well-being of the agricultural district. County Zoning Ordinance Section 816.2, which relates to the AE Zone District, permits electric transmission substations and electric distribution stations subject to Director Review and Approval (DRA); however, the proposed use is being processed by the County under the more intensive Unclassified Conditional Use Permit application process as provided for under Section 853.B.14. The tertiary wastewater treatment facility site is designated in the City's General Plan and zoning ordinance as Public Facilities (PF).

Alternatives to be Analyzed in the EIR

Per CEQA Guidelines Section 15126.6, the Draft EIR will assess a range of alternatives to the Project, including a No Project Alternative and any feasible alternatives that would attain most of the basic objectives of the Project while avoiding or reducing any of its significant environmental effects. Potential alternatives will be identified during the scoping process.

Potential Environmental Impacts

Pursuant to CEQA Guidelines Section 15060(d), the County has determined that this Project could result in one or more significant impacts on the physical environmental, thereby necessitating the preparation of an EIR, and so has not prepared an Initial Study. The EIR will analyze the environmental issues identified in the CEQA Guidelines Appendix G Environmental Checklist (listed below) after establishing the environmental setting, or baseline, for the analysis. The EIR will identify potential significant direct, indirect, and cumulative effects of the Project and alternatives related to:

- Aesthetic quality and views, including from the requested variance from height restrictions;
- Agriculture and forestry resources, including the use of property now in non-irrigated agricultural use to a renewable energy generation use for the duration of the permit term;
- Air quality and noise in the vicinity of sensitive receptors, particularly from equipment;
- The intersection of energy use, transportation, and greenhouse gas (GHG) emissions;
- Biological resources, including species and habitats, based on database queries, field surveys, and agency consultations, if required;
- Cultural and tribal cultural resources that could be disturbed, based on record searches and field surveys;
- Geology and soils, paleontological resources, hazards and hazardous materials, hydrology and water quality, and related considerations and constraints;
- The Project's relationship to land use and planning, as well as lands subject to special resources management activities, such as mineral resources and recreation;
- Population and housing, public services, and utilities and service systems;
- Wildfire, including the potential to exacerbate wildfire risks, and thereby expose people to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire; and
- Growth inducement, particularly in relation to existing, adopted development plans for Fresno County.

Heartland Hydrogen Project-specific Distribution List: Agencies and Other Stakeholders
EIR 7564

Delivery Method	Agencies, Tribes, Other Stakeholders	Contact	Address	City, State, ZIP	Email	Alternate E-Mail
Project-specific recipients						
Email-only	Fresno County	Jeremy Shaw	2220 Tulare St. 6th Floor	Fresno, CA 93721	jshaw@fresnocountyca.gov	
Email-only	Fresno County	David Randall	2220 Tulare St. 6th Floor	Fresno, CA 93721	drandall@fresnocountyca.gov	
Email-only	City of Mendota c/o Provost & Pritchard Consulting Group	Jeffrey O'Neal, AICP	455 W. Fir Avenue	Clovis, CA 93611-0242	joneal@ppeng.com	
Email-only	City of Mendota c/o Provost & Pritchard Consulting Group	Michael Osborn, PE	455 W. Fir Avenue	Clovis, CA 93611-0242	mosborn@ppeng.com	
Email-only	Environmental Science Associates	Janna Scott	787 The Alameda, Suite 250	San Jose, CA 95126	Jscott@esassoc.com	
Email-only	Environmental Science Associates	Olivia Silverstein	550 Kearny St, Suite 800	San Francisco, CA 94108	Osilverstein@esassoc.com	
Email-only	Plug Power Inc.	Brenor Brophy			brbrophy@plugpower.com	
Email-only	Plug Power Inc.	Elijah Shoemake			eshoemake@plugpower.com	
Email-only	Candela Renewables	Louis De Rosa			louis.derosa@candelarenewables.com	
Email-only	Candela Renewables	Mark Stout			mark@stoutpower.com	
Email-only	Irish Hills	James White			jwhite@irishhillsenv.com	
Possible responsible agencies, trustee agencies, or potentially affected Federal agencies						
Certified	California Department of Conservation, Division of Land Resource Protection	Dennis O'Bryant	801 "K" Street - M/S 13-71	Sacramento, CA 95814-3514	dlrp@conservation.ca.gov	
Certified	California Department of Conservation, Geologic Energy Management Division	Chris Jones, Acting District Deputy	801 "K" Street - M/S 18-05	Sacramento, CA 95814-3514	Victor.Medrano@conservation.ca.gov	
Certified	California Department of Fish & Wildlife, Region 8	Craig Bailey	1234 E. Shaw Avenue	Fresno, CA 93710	craig.bailey@wildlife.ca.gov	R4CEQA@wildlife.ca.gov
Certified	California Department of Forestry and Fire Protection, Fresno-Kings Unit		210 S. Academy Ave.	Sanger, CA 93657-9306		
Certified	California Department of Transportation, District 6	Dave Padilla, Branch Chief, Transportation Planning – North	P.O. Box 12616	Fresno, CA 93778-2616	dave.padilla@dot.ca.gov	edgar.hernandez@dot.ca.gov
Certified	California Energy Commission	Terry O'Brien	1516 Nin h Street, MS-29	Sacramento, CA 95814-5512		
Certified	California Environmental Protection Agency, Department of Toxic Substance Control	Dave Kereazis	1515 Tollhouse Road	Clovis, CA 93612	dave.kereazis@dtsc.ca.gov	
Certified	California Highway Patrol	Eric Walker, Captain	1380 E. Fortune Ave	Frenso, CA 93725		
Certified	California Native American Heritage Commission	Katy Sanchez	1550 Harbor Boulevard, Suite 100	West Sacramento, CA 95691	Katy.Sanchez@nahc.ca.gov	
Certified	California Public Utili ies Commission	Mary Jo Borak	505 Van Ness Avenue	San Francisco, CA 94102	bor@cpuc.ca.gov	
Certified	California Regional Water Quality Control Board, Region 5	Dale Harvey	1685 E. Street	Fresno, CA 93706-2020	centralvalleyfresno@waterboards.ca.gov	
Certified	San Joaquin Valley Air Pollution Control District	Arnaud Marjollet, Director of Permit Services	1990 E. Gettysburg Avenue	Fresno, CA 93726	ceqa@valleyair.org	keanu.morin@valleyair.org
Certified	Southern San Joaquin Valley Archaeological Info Center	Celeste Thompson	9001 Stockdale Ave.	Bakersfield, CA 93311-1099	ssjvic@csub.edu	
Certified	State Office of Historic Preserva ion, Department of Parks & Recreation	Lucinda Woodward	1725 23rd Street, Ste. 100	Sacramento CA 95816	lwoodward@parks.ca.gov	rparsons@parks.ca.gov
Certified	United States Department of the Interior, Fish & Wildlife Services - Endangered Species Div.	Matthew Nelson	2800 Cottage Way, #W-2606	Sacramento, CA 95825-1888	matthew_nelson@fws.gov	
Native American Tribes						
Post	Dumna Wo Wah	Chris Acree	262 N. Glenn Avenue	Fresno, CA 93701		
Post	Dumna Wo Wah Government	Robert Ledger, Tribal Chairman	2191 W. Pico	Fresno, CA 93705		
Post	Picayune Rancheria of the Chukchansi Indians	Heather Airey - Cultural Resources Director	PO Box 2226	Oakhurst, CA 93644		
Post	Santa Rosa Rancheria Tachi Yokut Tribe	Ruben Barrios, Tribal Chairman, c/o Cultural Department	PO Box 8	Lemoore, CA 93245	SMcCarty@tachi-yokut-nsn.gov	
Post	Table Mountain Rancheria	Robert Pennell, Tribal Cultural Resources Director	P.O. BOX 410	Friant, CA 93626		
Other agencies						
Post	Central Valley Flood Protection Board	Leslie Gallagher	3310 El Camino, Room LL40	Sacramento, CA 95821		
Post	City of Firebaugh	Ben Gallegos, City Manager	1133 P Street	Firebaugh, CA 93622	bgallegos@firebaugh.org	
Post	City of Kerman, Community Development Department	Jesus R. Orozco	850 S. Madera Avenue	Kerman, CA 93630-1741	mcampos@cityofkerman.org	
Post	City of Mendota, Planning and Community Development	Cristian Gonzalez	643 Quince Street	Mendota, CA 93640	cris ian@cityofmendota.com	
Post	City of San Joaquin	Lupe Estrada	21900 W Colorado Avenue	San Joaquin, CA 93660	sanjcity@kermantel.net	Cruzramos@sebastiancorp.net
Post	Consolidated Mosquito Abatement District	Steve Mulligan	P.O. Box 784	Parlier, CA 93648	smulligan@mosquitobuzz.net	jholeman@mosquitobuzz.net
Post	County of Madera, Community and Economic Development - Planning	Jamie Bax, Deputy Director	200 W. 4 h Street, Suite 3100	Madera, CA 93637	jamie.bax@maderacounty.com	
Post	Fresno Council of Governments	Tory Boren	2035 Tulare St Ste 201	Fresno CA 93721		
Post	Fresno County Fire Protection District	Jim McDougald, Division Chief	210 S. Academy Ave.	Sanger, CA 93657-9306	jim.mcdougald@fire.ca.gov	
Post	Fresno Metropolitan Flood Control District	Frank Fowler	5469 E. Olive Avenue	Fresno, CA 93727	developmentreview@fresnofloodcontrol.org	
Post	Golden Plains Unified School District	Martin Macias, Superintendent	22000 Nevada Street	San Joaquin, CA 93660	mmacias@gpusd.org	
Post	James Irrigation District		P.O. Box 757	San Joaquin, CA 93660		
Post	Kings Basin Water Authority		4886 E. Jensen Avenue	FRESNO, CA 93725		
Post	Kings River Conservation District	Paul Peschel, General Manager	4886 E. Jensen Avenue	Fresno, CA 93725	ppeschel@krcd.org	comments@krcd.org
Post	Mendota Unified School District	Dr. Paul Lopez, Superinendent	115 McCabe Ave.	Mendota, CA 93640	plopez@mendotaschools.org	
Post	NAVFACSW INTERGOVERNMENTAL BRANCH		1220 Pacific Highway	SAN DIEGO, CA 92132		
Post	State Lands Commission	Eric Gillies, Assistant Chief, Environmental Planning and Manager	100 Howe Avenue, Suite 100 Sou h	Sacramento CA 95825	Eric.Gillies@slc.ca.gov	
Post	State of California Reclamation Board		P.O. Box 942836	Sacramento, CA 94236	lenmarino@water.ca.gov	
Post	Tranquillity Irrigation District	Liz Reeves	Box 487	Tranquillity, CA 93668	liz@trqid.com	
Post	Tranquillity Resource Conservation District	Danny Wade	PO Box 487	Tranquillity, CA 93668-0487	easyrider@netptc.net	
Post	United State Department of Agriculture, Natural Resources Conservation Service	David Durnham	4625 W. Jennifer, Suite 125	Fresno, CA 93722		
Post	United States Army Corp of Engineers, Sacramento District	Kathy Norton	1325 J Street, Room 1350	Sacramento CA 95814-2922	kathy.norton@usace.army.mil	SPKRegulatoryMailbox@usace.army.mil
Post	United States Environmental Protection Agency Region 9	Dawn Richmond	75 Hawthorne Street (WTR-9)	San Francisco, CA 94105	richmond.dawn@epa.gov	
Post	Westlands Water District	Russ Freeman	P.O. Box 6056	Fresno, CA 93703-6056	rfreeman@wwd.ca.gov	jgutierrez@wwd.ca.gov; kcampbell@wwd.ca.gov
Post	Westlands Water District GSA	Kiti Buelna Campbell	PO Box 6056	Fresno, CA 93703	kcampbell@wwd.ca.gov	
Post	Westside Resources Conservation District		P.O. Box 6079	Tranquility, California 93624-0038		
Other stakeholders and special interests						
Post	Adams Broadwell Joseph & Cardozo	Sheila Sannadan, Maya Smith	601 Gateway Blvd, Suite 1000	Sou h San Francisco, CA 94080-7037	ssannadan@adamsbroadwell.com	
Post	Laborers Intl Union of N. America, Local Union 294		1939 Harrison St Suite 150	Oakland, CA 94612		
Post	Lozeau Drury, LLP	R. Drury, M. Lozeau, T. Rettinghouse, S. Osborne, H. Hughes, K. T	1939 Harrison St Suite 150	Oakland, CA 94612	admin@lozeaudrury.com	
Post	DOWNEY BRAND LLP		621 CAPITOL MALL, 18TH FL	SACRAMENTO CA 95814		

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Heartland Hydrogen Project-specific Distribution List: County APNs within 1 mile of the Project Site
EIR 7564

Method of delivery	Heartland Hydrogen 5280ft	NAME2	ADDRESS1	ADDRESS2	
Post	01917004ST				
Post	01917005ST				
Post	01917008ST				
Post	01917009ST				
Post	01917010T				
Post	01917011ST				
Post	01917013ST				
Post	01917025T				
Post	01917026T				
Post	01917027T				
Post	01917028T				
Post	01918031ST				
Post	01918033ST				
Post	01918034ST				
Post	01921041ST				
Post	01921044T				
Post	01921048T				
Post	01921048T				
Post	01921049T				
Post	01921050T				
Post	01921050T				
Post	01921051T				
Post	01921053ST				
Post	01921056ST				
Post	01921057ST				
Post	01921058ST				
Post	01921059ST				
Post	01921060ST				
Post	01921061ST				
Post	01921062ST				
Post	01921063ST				
Post	01921064ST				
Post	01921065ST				
Post	01921066ST				
Post	01921067ST				
Post	01921068ST				
Post	01921068ST				
Post	02803001T	WESTLANDS WATER DIST			
Post	02803012S	CLARK BROS INC		745 BROADWAY	FRESNO CA 93721
Post	02803017T	WESTLANDS WATER DIST			
Post	02803018T	WESTLANDS WATER DIST			
Post	02803033ST	U S A			
Post	02803034ST				
Post	02803041ST				
Post	02803046ST				
Post	02806005S	ELGORRIAGA STEPHEN A & LISA V TRS	ELGORRIAGA PAUL & CHRISTINA	24436 AVE 8	MADERA CA 93637
Post	02806006S	ETCHEGOINBERRY MICHAEL		4819 N SAN D EGO	F REBAUGH CA 93622
Post	2806007	ETCHEGOINBERRY MICHAEL		5469 W BLUFF	FRESNO CA 93711
Post	2806022	SCHULENBERG RICHARD A	SCHULENBERG ROBERT O ET AL	4255 AGNES	STUDIO CITY CA 91604
Post	02806032ST	WESTLANDS WATER DIST			
Post	02806033ST	WESTLANDS WATER DIST			
Post	02806034T				
Post	02806040SU				
Post	02806041ST				
Post	02806051S	BROOKS FARMS II		P O BOX 696	RIVERDALE CA 93656
Post	02806059S	ALDACOURROU NICOLAS TRUSTEE		2079 21ST AVE	SAN FRANCISCO CA 94116
Post	02806060S	ELICAGARAY MARCEL & CHRISTINE TRUSTEES		341 QUINTARA ST	SAN FRANCISCO CA 94116
Post	02806061S	ELICAGARAY MARCEL & CHRISTINE TRUSTEES		341 QUINTARA ST	SAN FRANCISCO CA 94116
Post	02806062S	SRAN CHILDREN ALMONDS LLC		1758 N SISKIYOU	KERMAN CA 93630
Post	02806069ST				
Post	02806070ST	WESTLANDS WATER DIST			
Post	02806071ST	WESTLANDS WATER DIST			

Heartland Hydrogen Project-specific Distribution List: County APNs within 1 mile of the Project Site
EIR 7564

Method of delivery	Heartland Hydrogen 5280ft	NAME2	ADDRESS1	ADDRESS2	
Post	02806072ST	WESTLANDS WATER DIST			
Post	02806073S	BROOKS FARMS II		P O BOX 696	RIVERDALE CA 93656
Post	02806075ST	WESTLANDS WATER DIST			
Post	02807101ST				
Post	02807133ST				
Post	02807135ST	WESTLANDS WATER DIST			
Post	02807136ST	WESTLANDS WATER DIST			
Post	02807154S	RE ADAMS EAST LANDCO LLC	C/O HA L/L HOLDINGS LLC	1906 TOWNE CTR BLVD #370	ANNAPOLIS MD 21401
Post	02807154S	RE ADAMS EAST LANDCO LLC	C/O HA L/L HOLDINGS LLC	1906 TOWNE CTR BLVD #370	ANNAPOLIS MD 21401
Post	02807155ST				
Post	02810107S	BROOKS FARMS II		P O BOX 696	RIVERDALE CA 93656
Post	02810110ST				
Post	02810111S	BROOKS FARMS II		P O BOX 696	RIVERDALE CA 93656
Post	2810112	ALVARADO JUAN	ALVARADO JUAN	P O BOX 755	SAN MARTIN CA 95046
Post	02810117ST				
Post	02810119T				
Post	02810158ST				
Post	2810159	LUNA VALLEY SOLAR I LLC		300 CARNEGIE CENTER #300	PR NCETON NJ 08540
Post	02810161S	BROOKS FARMS II		P O BOX 696	RIVERDALE CA 93656
Post	2810163	MC CRAY JOHN W TR	MC CRAY RUTH W EXEC	2925 COLLEGE AVE #B6	COSTA MESA CA 92626
Post	02810164S	ETCHARREN PIERRE & DENISE		733 PACHECO ST	SAN FRANCISCO CA 94116
Post	02810165ST	WESTLANDS WATER DIST			
Post	02810169ST				
Post	02810174ST				
Post	02810177ST				
Post	02810182S	RE TRANQUILLITY LANDCO LLC	C/O SOUTHERN CO SERV	241 RALPH MCGILL BLVD NE,	BIN 10081
Post	02810182S	RE TRANQUILLITY LANDCO LLC	C/O SOUTHERN CO SERV	241 RALPH MCGILL BLVD NE,	BIN 10081
Post	02810183S	BROOKS FARMS II		P O BOX 696	RIVERDALE CA 93656
Post	02811101ST				
Post	02813012S	ESCALANTE FARMS NC		P O BOX 836	MENDOTA CA 93640
Post	02813035ST	U S A			
Post	02813041ST	U S A			
Post	02813046S	ESCALANTE FARMS NC		P O BOX 836	MENDOTA CA 93640
Post	02813048ST				
Post	02813049ST				
Post	02813050ST				
Post	02813051ST				
Post	02814005T				
Post	02814017ST				
Post	02814021T				
Post	02814023T				
Post	02814032ST				
Post	02814036ST				
Post	02814037ST				
Post	02814038ST				
Post	02814039ST				
Post	02815008S	BELDEN LAURA K TRUSTEE		348 N MAYFLOWER AVE	MONROVIA CA 91016
Post	02815009ST				
Post	02815012ST				
Post	02815014ST				
Post	02815031T				
Post	02815032ST				
Post	02815054ST				
Post	02815055ST				
Post	02816001ST				
Post	2816006	S3 GROUP LLC		1750 N SISKIYOU	KERMAN CA 93630
Post	2816007	S3 GROUP LLC		1750 N SISKIYOU	KERMAN CA 93630
Post	2816009	LAWLEY HAROLD DEAN & JOAN M		34000 W ADAMS	MENDOTA CA 93640
Post	02816013S	S3 GROUP LLC		1750 N SISKIYOU	KERMAN CA 93630
Post	02816014ST				
Post	02816016ST				
Post	02816016ST				

Heartland Hydrogen Project-specific Distribution List: County APNs within 1 mile of the Project Site
EIR 7564

Method of delivery	Heartland Hydrogen 5280ft	NAME2	ADDRESS1	ADDRESS2	
Post	02816016ST				
Post	02816016ST				
Post	02816016ST				
Post	02816017ST				
Post	02816019ST				
Post	02816020ST				
Post	02816022ST				
Post	2817001	S3 GROUP LLC		1758 N SISKIYOU	KERMAN CA 93630
Post	2817002	S3 GROUP LLC		P O BOX 401	KERMAN CA 93630
Post	02817003S	S3 GROUP LLC		P O BOX 401	KERMAN CA 93630
Post	02817005S	CHURCH DENVER S	C/O D KNUDSON	246 W SHAW	FRESNO CA 93704
Post	02817006T				
Post	02817009S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817013S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817015S	WATER LANDS BTI LLC		1800 BUNDAGE LN	BAKERSFIELD CA 93304
Post	2817016	TISCARENO ANGEL		P O BOX 268	TRANQUILLITY CA 93668
Post	02817017T				
Post	02817018T	WESTLANDS WATER DIST			
Post	02817023S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817025S	SIDDIQUE TAUSEEF M & ROOMANA		2058 FOOT HILL VISTA CT	TRACY CA 95388
Post	02817026S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817027S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817028S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817029S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817031S	S3 GROUP LLC		P O BOX 401	KERMAN CA 93630
Post	02817032S	S3 GROUP LLC		P O BOX 401	KERMAN CA 93630
Post	02817036S	S3 GROUP LLC		P O BOX 401	KERMAN CA 93630
Post	02817040S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817041ST	WESTLANDS WATER DIST			
Post	02817042ST	WESTLANDS WATER DIST			
Post	02817043ST	WESTLANDS WATER DIST			
Post	02817044ST	WESTLANDS WATER DIST			
Post	02817045ST	WESTLANDS WATER DIST			
Post	02817046ST	WESTLANDS WATER DIST			
Post	02817047ST	WESTLANDS WATER DIST			
Post	02817048ST	WESTLANDS WATER DIST			
Post	2817050	CHURCH DENVER S II	C/O D KNUDSON	246 W SHAW	FRESNO CA 93704
Post	2817051	CHURCH DENVER S II	C/O D KNUDSON	246 W SHAW	FRESNO CA 93704
Post	2817052	CHURCH DENVER S II	C/O D KNUDSON	246 W SHAW	FRESNO CA 93704
Post	02817054S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817055S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817056S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817057S	E KALOFONOU LLC		904 S LYON	MENDOTA CA 93640
Post	02817060ST	WESTLANDS WATER DIST			
Post	02817061ST	WESTLANDS WATER DIST			
Post	02817063S	S3 GROUP LLC		P O BOX 401	KERMAN CA 93630
Post	02817075S	S3 GROUP LLC		P O BOX 401	KERMAN CA 93630
Post	02817076S	S3 GROUP LLC		P O BOX 401	KERMAN CA 93630

Heartland Hydrogen Project-specific Distribution List: Property Owners within 1,000 feet of the MWTP
EIR 7564

Method of delivery	NAME1	NAME2	ADDRESS1	ADDRESS2
Post	Almendra Properties I LP		44474 W. Nees Ave.	Firebaugh, CA 93622
Post	B B Limited	c/o B Ward	1994 Paquita Dr.	Carpinteria, CA 93013
Post	Boda del Rio Holdings LLC	c/o K Schmidt	1201 K St. #920	Sacramento, CA 95814
Post	Central California Irrigation District	Jarret Martin, General Manager	PO Box 1231	Los Banos, CA 93635
Post	Clean Energy Systems Inc.		3035 Prospect Dr., # 120	Rancho Cordova, CA 95670
Post	Estanislau Navarro		2511 N. Bass Ave.	Mendota, CA 93640
Post	Firebaugh Canal Water District	Jeff Bryant, General Manager	PO Box 97	Mendota, CA 93640
Post	Mendota Properties LLC		8211 N. Fresno St.	Fresno, CA 93720
Post	Odyssey Agricultural Holdings LLC	c/o Legal Dept	2222 E. Olympic Blvd.	Los Angeles, CA 90024
Post	Ren Howard Watkins		2585 N. Bass Ave.	Mendota, CA 93640
Post	River Ranch LLC		PO Box 758	Riverdale, CA 93656
Post	Silver Creek Packing Company		PO Box 67	Mendota, CA 93640
Post	United States Bureau of Reclamation	Ernest Conant, Regional Director	2800 Cottage Way MP-100	Sacramento, CA 95825

Janna Scott

From: Janna Scott
Sent: Monday, October 24, 2022 5:10 PM
Subject: Notice of Preparation of Environmental Impact Report: Heartland Hydrogen Project (Fresno County EIR 7564)
Attachments: Heartland_NOP_2022_1024.pdf

To Interested Parties [undisclosed recipient list],

On behalf of the Fresno County Department of Public Works and Planning, Development Services and Capital Projects Division (the County), please see the attached Notice of Preparation (NOP) for the Heartland Hydrogen Project (Fresno County EIR #7564). The NOP includes information about the project, the project site, and the County's California Environmental Quality Act (CEQA) scoping process for the project. It also includes instructions for submitting scoping comments and information about a virtual public scoping meeting. If you have any questions about the attached NOP, please contact Jeremy Shaw at (559) 600-4207, by email at jshaw@FresnoCountyCA.gov, or by mail using the address provided in the NOP.

Written scoping comments will be accepted at any time during a 30-day public scoping period, which begins October 24, 2022, and concludes at 5 p.m. on Tuesday, November 22, 2022.

A virtual scoping meeting will be held Tuesday, November 8, 2022, at 10 a.m. Information about how to participate in the meeting is included in the NOP.

You are receiving this email because you have been identified as someone who may be interested in receiving information relating to Fresno County's CEQA process for evaluating environmental impacts of the Heartland Hydrogen Project. If you would prefer not to receive email notifications like this one, please reply with the word "unsubscribe" as the body of the message. Otherwise, *please do not reply to this email*, which is not regularly monitored. Instead, please direct all communications about this project to the County using the contact information provided in the attached NOP.

Best regards,
Heartland Hydrogen Project EIR Team

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Exhibit B
Electronic Access

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EIR 7564 HEARTLAND HYDROGEN

Unclassified Conditional Use Permit Application No. 3630, 3631 and Variance No. 4122

Environmental Documents

Notice of Preparation

Click to View

Public Scoping Meeting

The CEQA process encourages comments and questions from the public throughout the planning process. Consistent with the California Public Resources Code and Section 15083(c)(1), (2)(A) to (D) of the CEQA Guidelines, a Public Scoping Meeting will be held to solicit public and agency comments on the Scope and content of the Draft EIR. Oral and/or written comments also may be presented at the Public Scoping Meeting. The Public Scoping Meeting will be held online on a future date. Notices will be sent to surrounding property owners. If you wish to be included in future notices please submit your request to Jeremy Shaw.

Please send your written comments to:

Attn: Jeremy Shaw.

Fresno County Department of Public Works and Planning

Development Services and Capital Projects Division

2220 Tulare Street, Sixth Floor

Fresno, CA 93721

Phone: (559) 600-4204 Fax: (559) 600-4200

Email: jshaw@FresnoCountyCA.gov

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Exhibit C
Newspaper Notification

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THE BUSINESS JOURNAL
FRESNO | KINGS | MADERA | TULARE
P.O. Box 126
Fresno, CA 93707
Telephone (559) 490-3400

(Space Below for use of County Clerk only)

IN THE COUNTY OF FRESNO, STATE OF CALIFORNIA

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND PUBLIC SCOPING MEETING FOR THE HEARTLAND HYDROGEN PROJECT

SUBJECT: Notice of Preparation of Draft Environmental Impact Report (EIR) No. 7564 for the Heartland Hydrogen Project

MISC. NOTICE

Comments in response to this NOP will be accepted through 5 p.m., Tuesday, November 22, 2022

STATE OF CALIFORNIA

COUNTY OF FRESNO

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk of **THE BUSINESS JOURNAL** published in the city of Fresno, County of Fresno, State of California, Monday, Wednesday, Friday, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Fresno, State of California, under the date of March 4, 1911, in Action No.14315; that the notice of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

OCTOBER 24, 2022

.....

.....

I declare under penalty of perjury that the foregoing is true and correct and that this declaration was executed at Fresno, California,

OCTOBER 24, 2022

ON .....

Carrie Mast

.....

DECLARATION OF PUBLICATION
(2015.5 C.C.P.)

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND PUBLIC SCOPING MEETING FOR THE HEARTLAND HYDROGEN PROJECT

TO: Responsible and Trustee Agencies, other interested agencies, and members of the public

FROM: County of Fresno, Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Sixth Floor Fresno, CA 93721

SUBJECT: Notice of Preparation of Draft Environmental Impact Report (EIR) No. 7564 for the Heartland Hydrogen Project

Date: October 24, 2022

Action: The County of Fresno (County) will be the Lead Agency pursuant to the California Environmental Quality Act (CEQA) and responsible for preparing an EIR pursuant to CEQA and the CEQA Guidelines that analyzes potential impacts of the requested Conditional Use Permits and Variance Application.

Project Title: Heartland Hydrogen Project, Unclassified Conditional Use Permit Application Nos. 3630 and 3631 and Variance Application No. 4122

Project Applicants: Plug Project Holding Co., LLC and Heartland Solar 1, LLC

Project Summary and Location

The Applicants propose to construct, operate, maintain, and eventually decommission facilities to generate hydrogen fuel from renewable sources (photovoltaic solar energy and treated wastewater) on approximately 2,371 acres in western Fresno County. The Project would rely on the proposed solar facility to convert sunlight into electricity, which would be used to power the hydrogen facility that would split the recycled water into hydrogen and oxygen (electrolysis). The hydrogen, solar, and tertiary wastewater treatment facilities together constitute the Heartland Hydrogen Project (Project). The Project also includes an approximate 1.25-mile electrical interconnection service line to the existing Tranquillity Switching Station, a second transmission line internal to the solar/hydrogen site to provide power from the solar facility to the hydrogen facility, and other associated facilities and infrastructure. The Project would be capable of producing approximately 30,000 kilograms per day of renewable or "green" hydrogen for zero-emission transportation fuel to be used by fuel-cell electric vehicles operating statewide. Hydrogen fuel production and solar energy generation would occur on privately owned, disturbed agricultural land currently owned by the Westlands Water District; tertiary wastewater treatment would occur at a new facility to be built within the existing Mendota Wastewater Treatment Plant (MWTP). The hydrogen and solar facilities' site is located in an unincorporated area 10 miles east of Interstate 5, east of Los Angeles Avenue, south of W. American Avenue, west of State Route 33 (SR 33, also called S. Derrick Avenue), north of Manning Avenue, and 1.25 miles north of PG&E's existing Tranquillity Switching Station. The tertiary wastewater treatment facility would be located within the fence line of the existing MWTP located at 3699 Bass Avenue, Mendota. The Project site includes the locations in the County and in the City. The Applicants' Project Description, site plan, and a location map are available for review at:

§ Fresno County Public Works and Planning Department, 2220 Tulare Street, Fresno, CA 93721
§ Fresno County website: www.co.fresno.ca.us/EIR

Written Comments

This Notice of Preparation (NOP) solicits comments from Responsible and Trustee Agencies and other public agencies so that project-related concerns relevant to each agency's statutory responsibilities can be addressed in the EIR. This NOP also solicits input from other interested parties, including Tribes and members of the public. The County requests that potential Responsible or Trustee Agencies responding to this NOP reply in a manner consistent with CEQA Guidelines Section 15082(b),

which anticipates submittal of any input in response to an NOP no later than 30 days after receipt of the NOP. Comments in response to this NOP will be accepted through 5 p.m., Tuesday, November 22, 2022. Please send written scoping input to:

Attn: Jeremy Shaw
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Sixth Floor
Fresno, CA 93721
Phone: (559) 600-4207 Fax: (559) 600-4200
Email: jshaw@FresnoCountyCA.gov
Please reference EIR #7564, Heartland Hydrogen Project. Please include your name, address, and phone number and/or email address so that we may contact you for clarification, if necessary.

Public Scoping Meeting

The CEQA process encourages comments and questions from the public throughout the planning process. Consistent with the CEQA and Section 15083(c)(1), (2)(A) to (D) of the CEQA Guidelines, a Public Scoping Meeting will be held to solicit public and agency comments (oral and/or written) on the proposed scope and content of the Draft EIR. The Public Scoping Meeting will be held online on:

Date: Tuesday, November 8, 2022
Time: 10 a.m.
If joining from a computer: https://bit.ly/HeartlandScopingMtg (Webinar ID: 864 4985 81)
If joining by phone: (888) 788-0099 (Meeting ID: 864 4985 81)

Alternatives to be Analyzed in the EIR

Per CEQA Guidelines Section 15126.6, the Draft EIR will assess a range of alternatives to the Project, including a No Project Alternative and any feasible alternatives that would attain most of the basic objectives of the Project while avoiding or reducing any of its significant environmental effects. Potential alternatives will be identified during the scoping process.

Potential Environmental Impacts

Pursuant to CEQA Guidelines Section 15060(d), the County has determined that this Project could result in one or more significant impacts on the physical environmental, thereby necessitating the preparation of an EIR, and so has not prepared an Initial Study. The EIR will analyze the environmental issues identified in the CEQA Guidelines Appendix G Environmental Checklist (listed below) after establishing the environmental setting, or baseline, for the analysis. The EIR will identify potential significant direct, indirect, and cumulative effects of the Project and alternatives related to:

- Aesthetic quality and views, including from the requested variance from height restrictions;
- Agriculture and forestry resources, including the use of property now in non-irrigated agricultural use to a renewable energy generation use for the duration of the permit term;
- Air quality and noise in the vicinity of sensitive receptors, particularly from equipment;
- The intersection of energy use, transportation, and greenhouse gas (GHG) emissions;
- Biological resources, including species and habitats, based on database queries, field surveys, and agency consultations, if required;
- Cultural and tribal cultural resources that could be disturbed, based on record searches and field surveys;
- Geology and soils, paleontological resources, hazards and hazardous materials, hydrology and water quality, and related considerations and constraints;
- The Project's relationship to land use and planning, as well as lands subject to special resources management activities, such as mineral resources and recreation;
- Population and housing, public services, and utilities and service systems;
- Wildfire, including the potential to exacerbate wildfire risks, and thereby expose people to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire; and
- Growth inducement, particularly in relation to existing, adopted development plans for Fresno County.

10/24/2022

Exhibit D
Public Scoping Meeting

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Heartland Hydrogen Project EIR

Public Scoping Meeting | Tuesday, November 8, 2022, 10 a.m.

Agency Presentation and Public Input

Agenda

- Introductions
- Purpose of the Meeting
- Project Overview
- Unclassified Conditional Use Permit and Variance Processes
- Environmental Review Process (CEQA)
- Scoping: Environmental Impacts and Alternatives
- Public Comments
- Next Steps

Introductions

- Fresno County
  - CEQA Lead Agency responsible for preparation of EIR 7564
  - Decision-maker for the requested County approvals
- Environmental Science Associates
  - Environmental Consultant to the County
- Plug Power Holding Co., LLC and Heartland Solar 1, LLC
  - Project Applicants

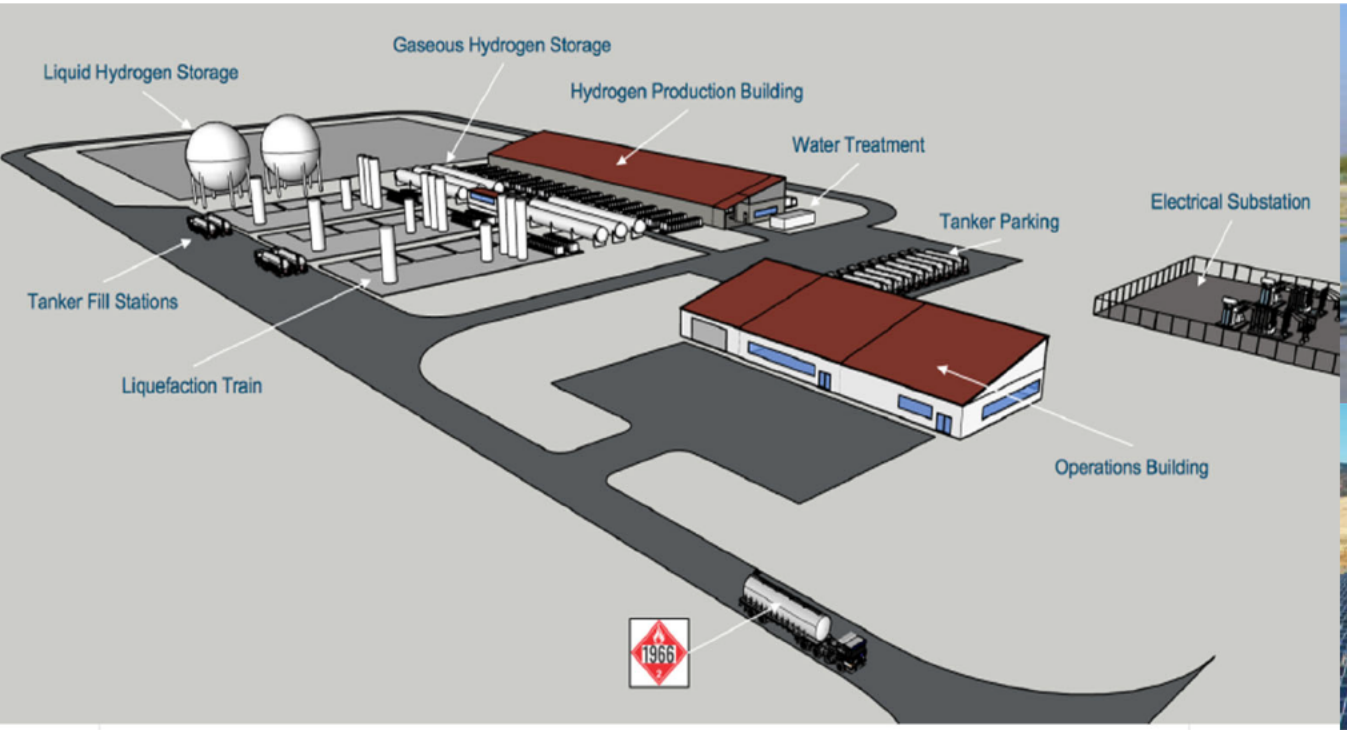
Purpose of the Meeting

For us to hear from YOU!
Your questions and ideas are welcome and invited.

Project Overview

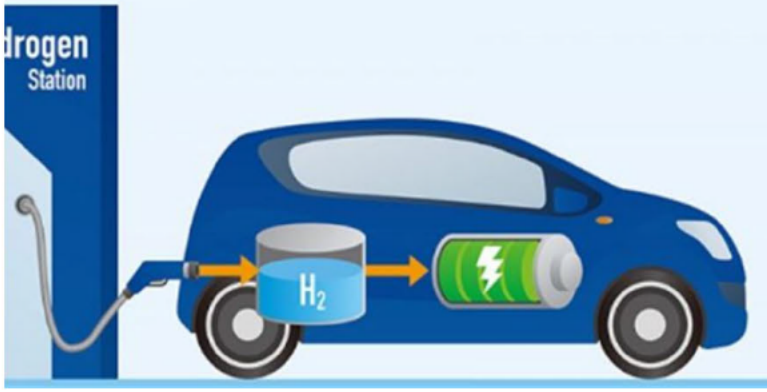
- Hydrogen Generation
- Solar Energy Generation
- Tertiary Wastewater Treatment

Heartland Hydrogen Project (EIR 7564)



Primary Project Components

- Tertiary wastewater treatment
- Solar energy generation
- Hydrogen fuel generation

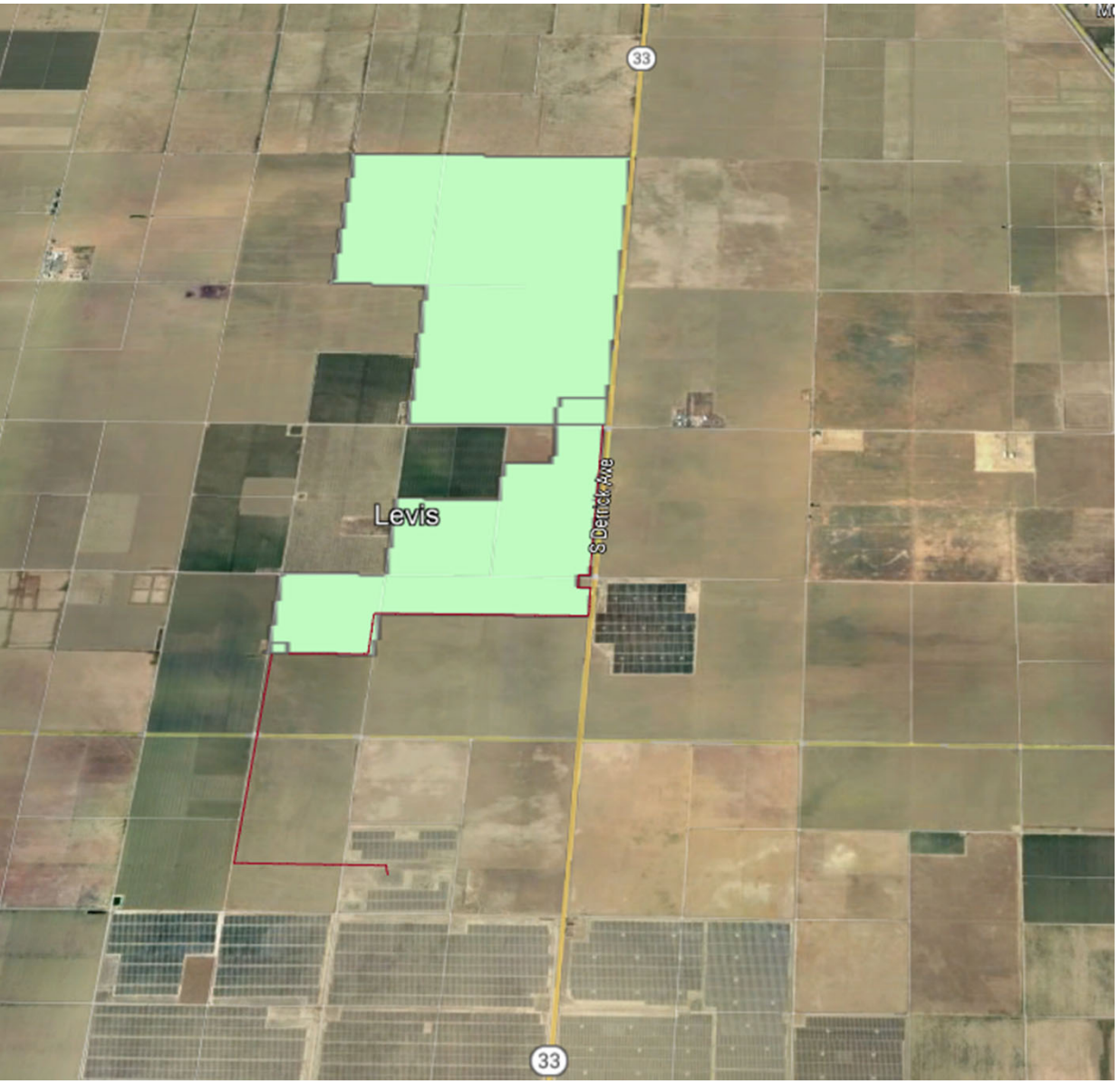


Project Vicinity

- Existing Mendota Wastewater Treatment Plant
- City of Mendota
- Mendota Wildlife Area
- State Route 33, S. Derrick Ave.
- Proposed Hydrogen and Solar Facilities
- Existing PG&E Tranquillity Switching Station

Project Site and Surrounding Uses

Mendota Wastewater Treatment Plant-related public facilities uses



Project Site and Surrounding Uses

- Agricultural land uses
- Solar photovoltaic generation and related energy uses

Use Permit Process

Before the Planning Commission may approve a requested use permit, it must make five findings:

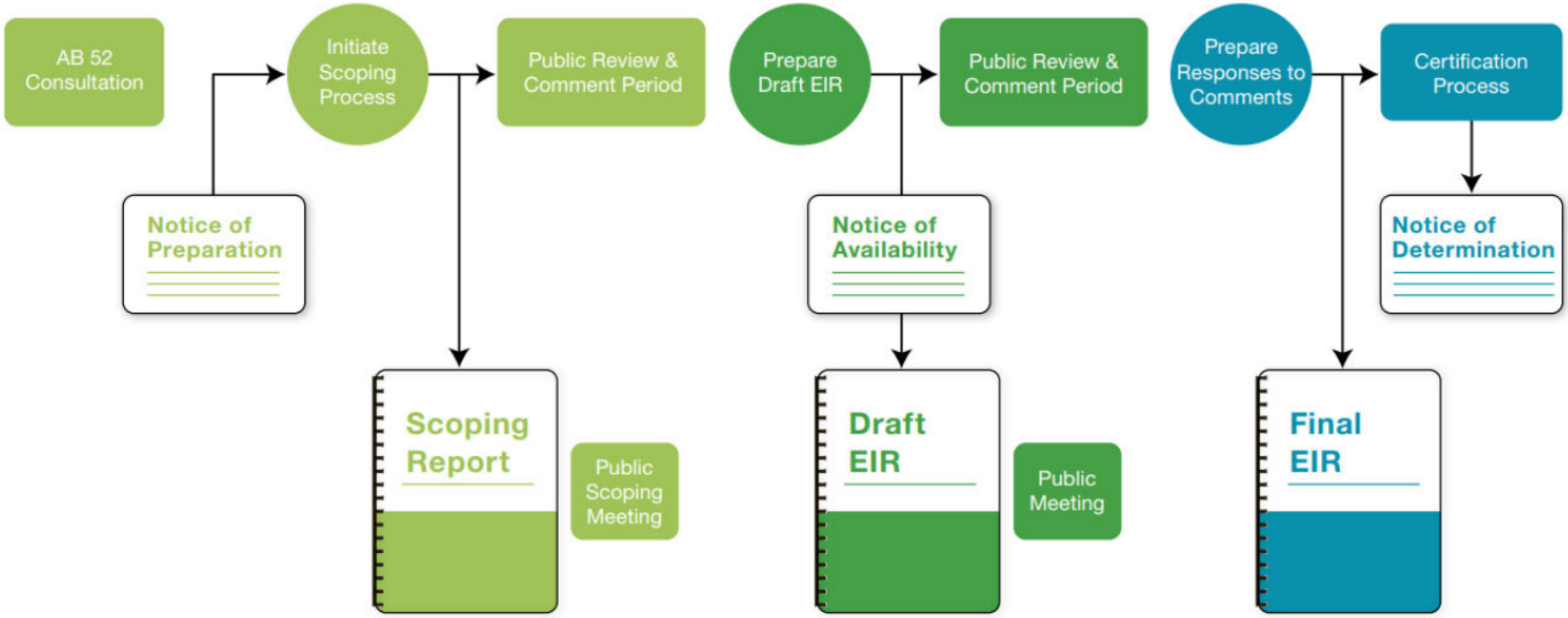
1. The parcel is of adequate size and shape
2. Roads to the project site are adequate
3. No adverse impacts to surrounding property would result
4. The use would be consistent with the County General Plan
5. Conditions are required as necessary to ensure public safety and welfare

Variance Process

Before the Planning Commission may approve a requested variance, it must make four findings:

1. There are exceptional or extraordinary circumstances or conditions applicable to the property involved which do not apply generally to other property in the vicinity having the identical zoning classification.
2. A variance is necessary for the preservation and enjoyment of a substantial property right of the applicant, which right is possessed by other property owners under like conditions in the vicinity having the identical zoning classification.
3. Granting a Variance would not be materially detrimental to the public welfare or injurious to property and improvement in the vicinity in which the property is located.
4. The proposed development is consistent with the General Plan.

Environmental Review: The CEQA Process



Heartland Hydrogen Project (EIR 7564)

Scoping

October 24 – November 28, 2022, at 5 p.m.

Purpose of Scoping

- Solicit input as to the scope and content of the EIR, including potential impacts of concern and mitigation measures or alternatives that should be considered;
- Scoping tells us what we should study, not what the answers are.

Agency Scoping

Public Scoping

Scoping: Resources to be Evaluated

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality and Greenhouse Gas Emissions
- Biological Resources
- Cultural and Tribal Cultural Resources
- Energy
- Geology, Soils, and Paleontology
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation
- Utilities and Service Systems
- Wildfire

Heartland Hydrogen Project (EIR 7564)

Scoping: Potential Alternatives

- Project Alternatives
  - Reasonable or feasible alternatives to the proposed project or its location
  - Capable of avoiding or substantially lessening any significant project impacts
  - Ok to impede to some degree the attainment of the objectives or be costlier

- No Project Alternative
  - What would be reasonably expected to occur in the foreseeable future if the proposed project were not approved
  - Based on current plans, consistent with available infrastructure and services

Scoping: Potential Alternatives

Reasonable

- Rule of reason - only the alternatives needed for a reasoned choice
- Limit to ones that would avoid or substantially lessen a significant project impact

Feasibility Factors

- Site suitability
- Economic viability
- Availability of infrastructure
- Consistency with General Plan, other plans or regulatory limitations
- Whether the proponent can reasonably acquire, control or otherwise have access to an alternative site

Scoping: Potential Alternatives

Proposed Project	No Project Alternative	Potential Alternatives
❑ Conditional Use Permit Nos. 3630 and 3631 ❑ Variance No. 4122 ❑ Approximately 2,371 acres would be developed on the west side ❑ 180 acre-feet per year (160,000 gallons per day) of wastewater treated to a tertiary level ❑ 300 MW solar energy generation capacity ❑ 30,000 kg/day renewable hydrogen production ❑ Approximately 3-mile-long electrical service line would connect the solar facility and the Tranquillity Switching Station	❑ No Use Permits or Variance ❑ No tertiary wastewater treatment plant within the existing MWTP ❑ No utility-scale PV solar energy on the proposed site ❑ No hydrogen generation facility on the proposed site ❑ Continued dry-farmed or fallowed land ❑ Potential for other uses consistent with the General Plan and zoning ordinance	❑ Reasonable ❑ Feasible ❑ Capable of avoiding or substantially lessening significant project impacts

The County's Next Steps

Winter 2022/Spring 2023: Prepare the Draft EIR

Spring 2023: Issue Draft EIR for Agency and Public Review

Summer/ Fall 2023: Prepare Responses to Comments

Fall/ Winter 2023: Issue Final EIR, Hold Planning Commission Hearing

Public Participation Opportunities

Participate at today's meeting

Submit written comments before 5 p.m. November 28, 2022

Stay informed

- Request to receive project notices (via US Post, email, or both) from Jeremy Shaw: jshaw@fresnocountyca.gov
- Keep an eye on the project website: www.co.fresno.ca.us/EIR

Provide comments on the Draft EIR

Participate in public hearings on the project

Scoping Process Participation Guide

Now

By telephone

- Dial *9 to request to speak

Via the Zoom platform

- Click the *Raise Hand* icon to be called on
- Submit comment in Q&A box

Later

By email:

jshaw@fresnocountyca.gov

By mail:

Attn: Jeremy Shaw
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Sixth Floor
Fresno, CA 93721

For Today

1. One speaker at a time
2. State and spell your name clearly
3. Limit comments to 3 minutes
4. Respect others' opinions
5. Written comments encouraged

Break

We are currently on a break until there are more comments or until we reach 10:30 AM.

If you would like to provide a comment:

By telephone

- Dial *9 to "Raise Hand"

Via the Zoom platform

- Click the *Raise Hand* icon to be called on
- Submit comment in Q&A box

Public Participation Opportunities

Participate at today's meeting

Submit written comments before 5 p.m. November 28, 2022

Stay informed

- Request to receive project notices (via US Post, email, or both) from Jeremy Shaw: jshaw@fresnocountyca.gov
- Keep an eye on the project website: www.co.fresno.ca.us/EIR

Provide comments on the Draft EIR

Participate in public hearings on the project

Thank you for participating

Transcript
Public Scoping Meeting
Heartland Hydrogen Project
November 8, 0222

1
Jeremy Shaw: Good morning and welcome to this public scoping meeting for the Heartland Hydrogen Project Environmental Impact Report.

2
Jeremy Shaw: My name is Jeremy Shaw. I'll be the lead plan for this project. Joining me is Raymond Martin, a staff analyst also with the County. We'll provide information about the project and the County's permitting and environmental review process and then open up the meeting for your comments and questions. Please note that any comments written or verbal will made in this meeting will become part of the public record.

3
Jeremy Shaw: The County will be the lead agency under CEQA for the Environmental Impact Report. Environmental Science Associates is supporting the County's review process. Plug Power Holding Company, LLC,and Heartland Solar 1, LLC are the applicants.

4
Jeremy Shaw: The California Environmental Quality Act encourages public input throughout the planning process. The purpose of this meeting is for us to hear from you. To help you decide what environmental considerations might be most important to you, we'll start with an overview of the project.

5
Jeremy Shaw: The Heartland Hydrogen project proposes to construct, operate, maintain, and ultimately decommission facilities to generate hydrogen fuel from renewable sources, using solar energy and treated wastewater. The proposed project will be located on approximately two thousand three hundred and seventy-one acres in Western Fresno County. The project would be capable of producing renewable hydrogen for zero emission transportation fuel that can be used by fuel cell electric vehicles. This slide shows an example of a hydrogen generation facility co-located with solar. This particular facility is located in Japan.

6
Jeremy Shaw: The primary components of the project are tertiary wastewater treatment, solar energy, generation, and hydrogen production. The project would rely on solar energy to generate electricity, which would be used to split the recycled water into hydrogen and oxygen by electrolysis. Tertiary treatment is the final stage of a multi-stage wastewater cleaning process which removes inorganic compounds, bacteria, viruses, and parasites. An electrical interconnection line will connect the proposed solar facility to the Tranquillity Switching Station. A second power line would connect the solar facility to the hydrogen generation facility.

7
Jeremy Shaw: The proposed tertiary wastewater treatment facility is located within the boundaries of the existing Mendota Wastewater Treatment Plant shown here near the top of this slide. The proposed hydrogen and solar facility shown as the light green area on the map is located approximately six miles south of the City of Mendota situated on lands currently owned by Westlands Water District.

8
Jeremy Shaw: The proposed tertiary wastewater facility would be constructed within the existing Mendota Wastewater Treatment Plant. The existing plant treats an average of approximately one point two million gallons per day of domestic wastewater from the City of Mendota and a nearby federal correctional institution to a secondary treatment level.

9
Jeremy Shaw: The proposed hydrogen and solar facilities are surrounded by agricultural uses, other utility scale solar projects and sparse residential development.

10
Jeremy Shaw: The conditional use permit process occurs in parallel to the preparation of the EIR. Upon publication of the Final EIR, the project will be scheduled for a hearing before the Planning Commission where the Commission will consider staff's recommendation and make a decision on the project.

11
Jeremy Shaw: A variance would also be required for any of the project structures to be allowed to exceed thirty five feet in height. The decision of the Planning Commission on a CUP application and/or a variance application is final, unless appealed to the Board of Supervisors within 15 days of the Commission’s action.

At this point I will turn the meeting over to Jenna Scott from Environmental Science Associates who will provide a brief overview of the EIR process.

12
Janna Scott: Good morning. The County is conducting its environmental evaluation in accordance with both the California Environmental Quality Act (CEQA) and its own environmental rules for the consideration of energy projects. The CEQA process consists of three stages. The first stage is the scoping process. Information learned during the scoping process will be applied during the second phase, Preparation of the Draft EIR. In the third stage, the County will invite agency and public comments on the draft EIR, respond to comments, and issue a Final EIR for consideration by decision makers.

13
Janna Scott: This scoping period opened on October the twenty fourth, and will conclude at 5 p.m. on Monday, November the twenty eighth. The purpose of scoping is for the lead agency to invite input from other agencies, such as the City of Mendota, the San Joaquin Valley Air

Pollution Control District, California Department of Fish and Wildlife, and others, as well as from members of the public, regarding the scope and content of the EIR, including potential environmental impacts of concern and mitigation measures or alternatives that should be considered.

14
Janna Scott: The EIR will evaluate whether the project could negatively affect any of the environmental resource areas identified in the CEQA Guidelines Appendix G Environmental Checklist.

15
Janna Scott: The EIR also will consider whether alternatives to the project as proposed could accomplish most of the basic objectives of the project while avoiding or reducing potential significant effects. CEQA also requires consideration of a no project alternative, which generally describes what would be reasonably expected to occur in the foreseeable future if the project were not approved.

16
Janna Scott: Two definitions are particularly important in the context of CEQA alternatives: reasonable and feasible. First, the range of alternatives required in an EIR is governed by a rule of reason that requires the environmental impact report to set forth only those alternatives necessary to permit a reasoned choice. The alternatives shall be limited to ones that would avoid or substantially lessen, any of the significant impacts of the project. Regarding feasibility, multiple factors are considered when determining whether a potential alternative is feasible: Site suitability, economic viability, the availability of necessary infrastructure, General Plan consistency, other plans or regulatory limitations, and whether the project proponent can reasonably acquire access to an alternative site.

17
Janna Scott: The graphic shown on this slide shows that the EIR will compare potential impacts of the project, the No Project alternative, and one or more project alternatives that meet the screening criteria. Under the proposed project, the requested conditional use permits would be issued, the requested variance would be granted, approximately two thousand three hundred, seventy-one acres would be developed on the west side of the County for energy related uses, including the production of thirty thousand kilograms per day of green hydrogen. Under the No Project alternative, no use permits, and no variance would be issued. The Mendota Wastewater Treatment Plant would not be upgraded to include the capacity to treat wastewater to a tertiary level. Existing dry farming or following on the west County land would continue.

18
Janna Scott: After scoping, the County will prepare a Draft EIR, release it for public review, consider and respond to comments, and then issue a Final EIR for consideration as part of the decision-making process. Initially, we are anticipating the Draft EIR will be issued in the spring and a Final EIR would be issued next fall or winter.

19
Janna Scott: Members of the public can participate at each stage. You can participate in today's meeting, submit scoping comments until 5 p.m. on November twenty eighth, submit comments on the Draft EIR once it's released, and participate in public hearings on the project. To stay informed about the project, you can request to receive project notices. You also can keep an eye on the County's website.

20
Janna Scott: You can participate in the scoping process now or until 5 p.m. on November twenty eighth. If you're participating by phone and would like to make a comment. Please dial star 9 to let us know. Steven will take you off mute, and invite you to speak. If you're participating via the Zoom platform, you can select the "raise hand" feature on your screen to request to speak, or you can enter input directly into the question and answer (Q&A) box. To participate later, you can submit your written comment in person to the Fresno County Department of Public Works and Planning, or by email or US Post to the attention of Jeremy Shaw. All comments will be included in the public record, and considered in the preparation of the EIR.

21
Janna Scott: during today's meeting, each speaker will have three minutes to speak. This is our opportunity to hear from you about where you think this EIR should focus. Please state and spell your name for the record, so that we can capture it accurately for the record. Is there anyone who would like to make comment?

Steven Johnson (he/him): No questions and no comments in the Q&A, and no hands raised so far.

Janna Scott: Thank you, Steven.

Janna Scott: Well, okay. At this point we will go on a short break until either someone indicates that they would like to speak or we get written input in the Q&A box. We're glad you're here. You could be doing a thousand other things this morning. Thank you for participating in this meeting.

Janna Scott: We'll stay on break until we hear that someone would like to make a comment, or until 10:30.

Janna Scott: We are currently on a break from the Heartland Hydrogen scoping meeting. If any of the participants would like to make a comment, please either dial star nine to raise your hand using your phone or via the zoom platform. Click the raise hand icon or submit a comment using the Q&A box. Again, this is for the Heartland Hydrogen project scoping meeting. We will wait until someone would like to make a comment, or until 10:30.

Janna Scott: Steven, I see that we have three attendees, all of whom are affiliated with the project. Our non-project affiliated participant hung up. Is there anybody that you can see participating by phone only such that we should continue to wait until 10:30?

Steven Johnson (he/him): Nope. Looks like It's just those three folks.

Janna Scott: Jeremy, Do you want to wait out the ten minutes, or should we…?

Jeremy Shaw: We need to wait until 10:30.

Janna Scott: Thanks, everybody.

Janna Scott: With five minutes remaining. I wanted to note that there is a typo on this slide that we will correct for purposes of the record.

Jeremy Shaw: On this slide?

Janna Scott: It said the Key Energy Storage project instead of Heartland in the footer of this one slide… right there. We'll fix it.

23
Janna Scott: Information about deadlines. We will keep an eye on the twenty eighth and, Jeremy, leading up to that day I'll stay in touch with you about whether anyone has submitted a comment in advance of the deadline so we can get started on the scoping report as soon as we have input.

Jeremy Shaw: Sounds good.

Janna Scott: David, Elijah, James, thank you for participating in the meeting this morning. We appreciate it.

Janna Scott: Thanks, everybody. I really appreciate your time this morning. And Steven, Maria, Natasha… thank you for supporting the effort on the tech side. We really couldn't do this without you. So thanks for your help.

Janna Scott: We are concluded.

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Exhibit E
Scoping Input Received

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From:	Isla, Nicholas@DOT
To:	Shaw, Jeremy
Cc:	Padilla, Dave@DOT
Subject:	DRAFT EIR #7564 Heartland Hydrogen Project
Date:	Tuesday, November 08, 2022 3:01:26 PM

CAUTION!!! - EXTERNAL EMAIL - THINK BEFORE YOU CLICK

Good afternoon Jeremy,

We've reviewed the DEIR for the proposed Heartland Hydrogen Project and have no comment.

Thank you,

Nicholas Isla
Transportation Planner
California Department of Transportation
1352 West Olive Avenue
(559) 981-7373

DocuSign Envelope ID: 3A1F7996-E806-4C1C-AF4F-D11B8F8D9899

California
Department of Conservation
Geologic Energy Management Division

Gavin Newsom, Governor
David Shabazian, Director
715 P Street, MS 1803
Sacramento, CA. 95814
T: (916) 445-5986

11/11/2022

Jeremy Shaw
2220 Tulare Street, Sixth Floor, Fresno, CA 93721, USA
jshaw@FresnoCountyCA.gov

Construction Site Well Review (CSWR) ID: 1012643

Assessor Parcel Number(s): 02817017T, 02817018T, 02814023T, 02814038ST, 02814023ST, 02814032ST, 02814036ST, 02814037ST, 02816016ST, 02816017ST, 02816019ST, 02816020ST, 02816022ST, 02817017ST, 02817018ST, 02817041ST, 02817042ST, 02817043ST, 02817044ST, 02817045ST, 02817046ST, 02817047ST, 02817048ST, 02817060ST, 02817061ST, 02806032ST, 02806033ST, 02806041ST, 01302006T

Property Owner(s): Plug Project Holding Co, LLC and Heartland Solar 1, LLC

Project Location Address: 2,371 acres in western Fresno County Mendota, California 93640

Project Title: Heartland Hydrogen Project, Unclassified CUP Nos. 3630 and 3631; Variance Application No. 4122

Public Resources Code (PRC) § 3208.1 establishes well reabandonment responsibility when a previously plugged and abandoned well will be impacted by planned property development or construction activities. Local permitting agencies, property owners, and/or developers should be aware of, and fully understand, that significant and potentially dangerous issues may be associated with development near oil, gas, and geothermal wells.

The California Geologic Energy Management Division (CalGEM) has received and reviewed the above referenced project dated 10/26/2022. To assist local permitting agencies, property owners, and developers in making wise land use decisions regarding potential development near oil, gas, or geothermal wells, the Division provides the following well evaluation.

DocuSign Envelope ID: 3A1F7996-E806-4C1C-AF4F-D11B8F8D9899

The project is located in Fresno County, within the boundaries of the following fields:

N/A

Our records indicate there are no known oil or gas wells located within the project boundary as identified in the application.

- Number of wells Not Abandoned to Current Division Requirements as Prescribed by Law and Projected to Be Built Over or Have Future Access Impeded by this project: 0

- Number of wells Not Abandoned to Current Division Requirements as Prescribed by Law and Not Projected to Be Built Over or Have Future Access Impeded by this project: 0

- Number of wells Abandoned to Current Division Requirements as Prescribed by Law and Projected to Be Built Over or Have Future Access Impeded by this project: 0

- Number of wells Abandoned to Current Division Requirements as Prescribed by Law and Not Projected to Be Built Over or Have Future Access Impeded by this project: 0

As indicated in PRC § 3106, the Division has statutory authority over the drilling, operation, maintenance, and abandonment of oil, gas, and geothermal wells, and attendant facilities, to prevent, as far as possible, damage to life, health, property, and natural resources; damage to underground oil, gas, and geothermal deposits; and damage to underground and surface waters suitable for irrigation or domestic purposes. In addition to the Division's authority to order work on wells pursuant to PRC §§ 3208.1 and 3224, it has authority to issue civil and criminal penalties under PRC §§ 3236, 3236.5, and 3359 for violations within the Division's jurisdictional authority. The Division does not regulate grading, excavations, or other land use issues.

If during development activities, any wells are encountered that were not part of this review, the property owner is expected to immediately notify the Division's construction site well review engineer in the Inland district office, and file for Division review an amended site plan with well casing diagrams. The District office will send a follow-up well evaluation letter to the property owner and local permitting agency.

Should you have any questions, please contact me at (661) 201-8607 or via email at Victor.Medrano@conservation.ca.gov.

DocuSign Envelope ID: 3A1F7996-E806-4C1C-AF4F-D11B8F8D9899

Sincerely,

Olu Oladimeji for
Chris Jones
Acting District Deputy

cc: Jeremy Shaw - Submitter

[redacted]

From: NoReply@conservation.ca.gov
Sent: Thursday, November 10, 2022 4:19 PM
To: Shaw, Jeremy
Subject: WellSTAR - Construction Site Well Review

Importance: High

CAUTION!!! - EXTERNAL EMAIL - THINK BEFORE YOU CLICK

A Construction Site Well Review Report has been completed for Construction Site Well Review ID # 1012643. Please log-in to WellSTAR to view the report.

URL:
https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Furldefense.com%2Fv3%2F__http%3A%2F%2Fwellstar.conservation.ca.gov%2F__%3B!!HRg2s0N7wg4sn4Q!uhBux15z48KSeLzNs_LqCIM3ih4aL5WmDXHyf0PqFZyWEsF5GpimOAzRC6F93mY3GBKamgFTASWcFkjUQeqzBPru5IRTgG8ccg%24&data=05%7C01%7Cjshaw%40FresnoCountyCA.gov%7C4a2a87418637415ed55a08dac37a45e7%7C3ccce0182cd74123960d6cc1d47e3550%7C1%7C0%7C638037227172782169%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=GLn59NpghC4XR553gGRrId666n%2BPeyULpyMRXAjJ5S4%3D&reserved=0
If you need technical assistance please contact the WellSTAR Administrator at (916) 327-6260.

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

November 17, 2022

Jeremy Shaw
County of Fresno
Department of Public Works and Planning
2220 Tulare Street, Sixth Floor
Fresno, CA, 93721

Project: Notice of Preparation of Draft Environmental Impact Report (EIR) No. 7564, Unclassified Conditional Use Permit Application Nos. 3630 and 3631, and Variance Application No. 4122 for the Heartland Hydrogen Project

District CEQA Reference No: 20221468

Dear Mr. Shaw:

The San Joaquin Valley Air Pollution Control District (District) has reviewed the Notice of Preparation (NOP) from the County of Fresno (County) for the Heartland Hydrogen Project. Per the NOP, the project consists of the construction, operation, maintaining and decommission facilities to generate hydrogen fuel from renewable sources (photovoltaic solar energy and treated wastewater) on approximately 2,371 acres (Project). The Project is located in western Fresno County, CA and in the City of Mendota, CA.

The District offers the following comments regarding the Project:

1) Project Related Emissions

At the federal level under the National Ambient Air Quality Standards (NAAQS), the District is designated as extreme nonattainment for the 8-hour ozone standards and serious nonattainment for the particulate matter less than 2.5 microns in size (PM2.5) standards. At the state level under California Ambient Air Quality Standards (CAAQS), the District is designated as nonattainment for the 8-hour ozone, PM10, PM2.5 standards.

The District's initial review of the Project concludes that emissions resulting from construction and/or operation of the Project may exceed any of the following significance thresholds as identified in the District's Guidance for Assessing and

Samir Sheikh
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: (661) 392-5500 FAX: (661) 392-5585

www.valleyair.org www.healthyairliving.com

Printed on recycled paper.

Mitigating Air Quality Impacts: https://www.valleyair.org/transportation/GAMAQI.pdf. The District recommends that a more detailed preliminary review of the Project be conducted for the Project's construction and operational emissions.

1a) Construction Emissions

The District recommends, to reduce impacts from construction-related diesel exhaust emissions, the Project should utilize the cleanest available off-road construction equipment, including the latest tier equipment.

1b) Operational Emissions

Operational (ongoing) air emissions from mobile sources and stationary sources should be analyzed separately. For reference, the District's significance thresholds are identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://www.valleyair.org/transportation/GAMAQI.pdf.

Recommended Mitigation Measure: At a minimum, project related impacts on air quality should be reduced to levels of significance through incorporation of design elements such as the use of cleaner Heavy Heavy-Duty (HHD) trucks and vehicles, measures that reduce Vehicle Miles Traveled (VMTs), and measures that increase energy efficiency. More information on transportation mitigation measures can be found at: http://www.valleyair.org/transportation/Mitigation-Measures.pdf.

1c) Recommended Model for Quantifying Air Emissions

Project-related criteria pollutant emissions from construction and operational sources should be identified and quantified. Emissions analysis should be performed using the California Emission Estimator Model (CalEEMod), which uses the most recent CARB-approved version of relevant emissions models and emission factors. CalEEMod is available to the public and can be downloaded from the CalEEMod website at: www.caleemod.com.

2) Health Risk Screening/Assessment

The County should evaluate the risk associated with the Project for sensitive receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) in the area and mitigate any potentially significant risk to help limit exposure of sensitive receptors to emissions.

To determine potential health impacts on surrounding receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) a Prioritization and/or a Health Risk Assessment (HRA) should be performed for the Project. These

health risk determinations should quantify and characterize potential Toxic Air Contaminants (TACs) identified by the Office of Environmental Health Hazard Assessment/California Air Resources Board (OEHHA/CARB) that pose a present or potential hazard to human health.

Health risk analyses should include all potential air emissions from the project, which include emissions from construction of the project, including multi-year construction, as well as ongoing operational activities of the project. Note, two common sources of TACs can be attributed to diesel exhaust emitted from heavy-duty off-road earth moving equipment during construction, and from ongoing operation of heavy-duty on-road trucks.

Prioritization (Screening Health Risk Assessment):
A "Prioritization" is the recommended method for a conservative screening-level health risk assessment. The Prioritization should be performed using the California Air Pollution Control Officers Association's (CAPCOA) methodology.

The District recommends that a more refined analysis, in the form of an HRA, be performed for any project resulting in a Prioritization score of 10 or greater. This is because the prioritization results are a conservative health risk representation, while the detailed HRA provides a more accurate health risk evaluation.

To assist land use agencies and project proponents with Prioritization analyses, the District has created a prioritization calculator based on the aforementioned CAPCOA guidelines, which can be found here:
http://www.valleyair.org/busind/pto/emission_factors/Criteria/Toxics/Utilities/PRIORITIZATION-CALCULATOR.xls

Health Risk Assessment:
Prior to performing an HRA, it is strongly recommended that land use agencies/ project proponents develop and submit for District review a health risk modeling protocol that outlines the sources and methodologies that will be used to perform the HRA. This step will ensure all components are addressed when performing the HRA.

A development project would be considered to have a potentially significant health risk if the HRA demonstrates that the project-related health impacts would exceed the District's significance threshold of 20 in a million for carcinogenic risk, or 1.0 for either the Acute or Chronic Hazard Indices.

A project with a significant health risk would trigger all feasible mitigation measures. The District strongly recommends that development projects that result in a significant health risk not be approved by the land use agency.

The District is available to review HRA protocols and analyses. For HRA submittals please provide the following information electronically to the District for review:

- HRA (AERMOD) modeling files
- HARP2 files
- Summary of emissions source locations, emissions rates, and emission factor calculations and methodologies.

For assistance, please contact the District's Technical Services Department by:

- E-Mailing inquiries to: hramodeler@valleyair.org
- Calling (559) 230-5900

Recommended Measure: Development projects resulting in TAC emissions should be located an adequate distance from residential areas and other sensitive receptors in accordance to CARB's Air Quality and Land Use Handbook: A Community Health Perspective located at https://ww3.arb.ca.gov/ch/handbook.pdf.

3) Ambient Air Quality Analysis

An Ambient Air Quality Analysis (AAQA) uses air dispersion modeling to determine if emissions increases from a project will cause or contribute to a violation of State or National Ambient Air Quality Standards. The District recommends an AAQA be performed for the Project if emissions exceed 100 pounds per day of any pollutant.

An acceptable analysis would include emissions from both project-specific permitted and non-permitted equipment and activities. The District recommends consultation with District staff to determine the appropriate model and input data to use in the analysis.

Specific information for assessing significance, including screening tools and modeling guidance, is available online at the District's website: www.valleyair.org/ceqa.

4) Voluntary Emission Reduction Agreement

Criteria pollutant emissions may result in emissions exceeding the District's significance thresholds, potentially resulting in a significant impact on air quality. When a project is expected to have a significant impact, the District recommends the Environmental Impact Report also include a discussion on the feasibility of implementing a Voluntary Emission Reduction Agreement (VERA) for this Project.

A VERA is a mitigation measure by which the project proponent provides pound-for-pound mitigation of emissions increases through a process that develops, funds, and

implements emission reduction projects, with the District serving a role of administrator of the emissions reduction projects and verifier of the successful mitigation effort. To implement a VERA, the project proponent and the District enter into a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the District's incentives programs. The funds are disbursed by the District in the form of grants for projects that achieve emission reductions. Thus, project-related impacts on air quality can be mitigated. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors.

In implementing a VERA, the District verifies the actual emission reductions that have been achieved as a result of completed grant contracts, monitors the emission reduction projects, and ensures the enforceability of achieved reductions. After the project is mitigated, the District certifies to the Lead Agency that the mitigation is completed, providing the Lead Agency with an enforceable mitigation measure demonstrating that project-related emissions have been mitigated. To assist the Lead Agency and project proponent in ensuring that the environmental document is compliant with CEQA, the District recommends the environmental document includes an assessment of the feasibility of implementing a VERA.

5) District Rules and Regulations

The District issues permits for many types of air pollution sources, and regulates some activities that do not require permits. A project subject to District rules and regulations would reduce its impacts on air quality through compliance with the District's regulatory framework. In general, a regulation is a collection of individual rules, each of which deals with a specific topic. As an example, Regulation II (Permits) includes District Rule 2010 (Permits Required), Rule 2201 (New and Modified Stationary Source Review), Rule 2520 (Federally Mandated Operating Permits), and several other rules pertaining to District permitting requirements and processes.

The list of rules below is neither exhaustive nor exclusive. Current District rules can be found online at: www.valleyair.org/rules/1ruleslist.htm. To identify other District rules or regulations that apply to future projects, or to obtain information about District permit requirements, the project proponents are strongly encouraged to contact the District's Small Business Assistance (SBA) Office at (559) 230-5888.

5a) District Rules 2010 and 2201 - Air Quality Permitting for Stationary Sources

Stationary Source emissions include any building, structure, facility, or installation which emits or may emit any affected pollutant directly or as a

fugitive emission. District Rule 2010 (Permits Required) requires operators of emission sources to obtain an Authority to Construct (ATC) and Permit to Operate (PTO) from the District. District Rule 2201 (New and Modified Stationary Source Review) requires that new and modified stationary sources of emissions mitigate their emissions using Best Available Control Technology (BACT).

This Project may be subject to District Rule 2010 (Permits Required) and Rule 2201 (New and Modified Stationary Source Review) and may require District permits. Prior to construction, the Project proponent should submit to the District an application for an ATC. For further information or assistance, the project proponent may contact the District's SBA Office at (559) 230-5888.

5b) District Rule 9510 - Indirect Source Review (ISR)

The purpose of District Rule 9510 is to reduce the growth in both NOx and PM emissions associated with development and transportation projects from mobile and area sources; specifically, the emissions associated with the construction and subsequent operation of development projects. The ISR Rule requires developers to mitigate their NOx and PM emissions by incorporating clean air design elements into their projects. Should the proposed development project clean air design elements be insufficient to meet the required emission reductions, developers must pay a fee that ultimately funds incentive projects to achieve off-site emissions reductions.

The Project may be subject to District Rule 9510 because it will receives a project-level discretionary approval from a public agency and will equal or exceed 9,000 square feet of other space. Per Section 5.0 of the ISR Rule, an Air Impact Assessment (AIA) application is required to be submitted no later than applying for project-level approval from a public agency.

The applicant should contact the District to determine the applicability of Rule 9510 to the Project. Please contact the District by phone at (559) 230-5900 or by email at ISR@valleyair.org for assistance with determining if the Project will be subject to Rule 9510.

5c) District Rule 4601 (Architectural Coatings)

The Project may be subject to District Rule 4601 since it may utilize architectural coatings. Architectural coatings are paints, varnishes, sealers, or stains that are applied to structures, portable buildings, pavements or curbs. The purpose of this rule is to limit VOC emissions from architectural coatings. In addition, this rule specifies architectural coatings storage, cleanup and labeling requirements.

Additional information on how to comply with District Rule 4601 requirements can be found online at: http://www.valleyair.org/rules/currntrules/r4601.pdf

5d) District Regulation VIII (Fugitive PM10 Prohibitions)

The project proponent may be required to submit a Construction Notification Form or submit and receive approval of a Dust Control Plan prior to commencing any earthmoving activities as described in Regulation VIII, specifically Rule 8021 – *Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities.*

Should the project result in at least 1-acre in size, the project proponent shall provide written notification to the District at least 48 hours prior to the project proponents intent to commence any earthmoving activities pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). Also, should the project result in the disturbance of 5-acres or more, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials, the project proponent shall submit to the District a Dust Control Plan pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). For additional information regarding the written notification or Dust Control Plan requirements, please contact District Compliance staff at (559) 230-5950.

The application for both the Construction Notification and Dust Control Plan can be found online at:
https://www.valleyair.org/busind/comply/PM10/forms/DCP-Form.docx

Information about District Regulation VIII can be found online at:
http://www.valleyair.org/busind/comply/pm10/compliance_pm10.htm

5e) Other District Rules and Regulations

The Project may also be subject to the following District rules: Rule 4102 (Nuisance) and Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations).

6) District Comment Letter

The District recommends that a copy of the District's comments be provided to the Project proponent.

If you have any questions or require further information, please contact Eric McLaughlin by e-mail at eric.mclaughlin@valleyair.org or by phone at (559) 230-5808.

Sincerely,

Brian Clements
Director of Permit Services

For: Mark Montelongo
Program Manager

From:	Samantha McCarty
To:	Shaw, Jeremy
Cc:	Shana Powers
Subject:	Heartland Hydrogen Project, Unclassified Conditional Use Permit Application No. 3630 and 3631 and Variance Application No. 4122
Date:	Thursday, November 17, 2022 5:56:53 PM

CAUTION!!! - EXTERNAL EMAIL - THINK BEFORE YOU CLICK

Dear Jeremy,

Thank you for contacting the Santa Rosa Rancheria Tachi-Yokut Tribe regarding: Heartland Hydrogen Project, Unclassified Conditional Use Permit Application No. 3630 and 3631 and Variance Application No. 4122. Due to Tribal history and knowledge, the Tribe will be requesting the following:

- Archaeological record search and to have the results sent to us
- Archaeological survey and to have the results sent to us
- Sacred Land Files search through Native American Heritage Commission and to have the results sent to us
- Cultural Presentation for all construction staff
- Archaeological monitor for all ground disturbance related to the site
- Native American monitor for all ground disturbance related to the site
- When gathering seeds to spread across the ground of the project once it's officially commissioned - choose plants that are native to the area and please make sure to have salt grass (Distichlis spicata) included in the mix.

If you have any questions, comments, and or concerns please contact myself or the Santa Rosa Rancheria Cultural Department. Thank you.

Sincerely,

Samantha McCarty
Santa Rosa Rancheria Tachi-Yokut Tribe
Cultural Specialist ll
SMcCarty@tachi-yokut-nsn.gov
Office: (559) 924-1278 x 4091
Cell: (559) 633-6640

***PLEASE KEEP ALL CULTURAL STAFF IN EMAILS UNLESS STATED OTHERWISE**

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State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Central Region
1234 East Shaw Avenue
Fresno, California 93710
(559) 243-4005
www.wildlife.ca.gov

GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director

November 22, 2022

Jeremy Shaw
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Sixth Floor
Fresno, CA 93721
jshaw@FresnoCountyCA.gov

Subject: **Heartland Hydrogen Project, Unclassified Conditional Use Permit Application Nos. 3630 and 3631 and Variance Application No. 4122 (Project)**
Notice or Preparation (NOP)
State Clearinghouse No. 2022100609

Dear Jeremy Shaw:

The California Department of Fish and Wildlife (CDFW) received a Notice of Preparation (NOP) for an Environmental Impact Report (EIR) from Fresno County Department of Public Works and Planning (Fresno County), as Lead Agency, for the Heartland Hydrogen Project, Unclassified Conditional Use Permit Application Nos. 3630 and 3631 and Variance Application No. 4122 (Project) pursuant the California Environmental Quality Act (CEQA) and CEQA Guidelines.[1]

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, CDFW appreciates the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW ROLE

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statute for all the people of the State (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386,

[1] CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

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subd. (a)). CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (*Id.*, § 1802). Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW is also submitting comments as a **Responsible Agency** under CEQA (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority (Fish & G. Code, § 1600 et seq.). Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), related authorization as provided by the Fish and Game Code will be required.

Unlisted Species: Species of plants and animals need not be officially listed as Endangered, Rare, or Threatened (E, R, or T) on any State or Federal list to be considered E, R, or T under CEQA. If a species can be shown to meet the criteria for E, R, or T, as specified in the CEQA Guidelines section 15380, CDFW recommends it be fully considered in the environmental analysis for the Project.

As a responsible agency, CDFW is responsible for providing, as available, biological expertise during public agency environmental review efforts (e.g., CEQA), focusing specifically on project activities that have the potential to adversely affect fish and wildlife resources. CDFW provides recommendations to identify potential impacts and possible measures to avoid or reduce those impacts.

PROJECT DESCRIPTION SUMMARY

Proponent: Plug Project holding Co., LLC and Heartland Solar 1, LLC

Objective: The Project proposes to construct, operate, maintain, and eventually decommission facilities to generate hydrogen fuel from renewable sources (photovoltaic solar energy and treated wastewater) on approximately 2,371 acres in western Fresno County. The Project would rely on the proposed solar facility to convert sunlight into electricity, which would be used to power the hydrogen facility that would split the recycled water into hydrogen and oxygen (electrolysis). The hydrogen, solar, and tertiary wastewater treatment facilities together constitute the Heartland Hydrogen Project (Project). The Project also includes an approximate 1.25-mile electrical interconnection service line to the existing Tranquillity Switching Station, a second

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transmission line internal to the solar/hydrogen site to provide power from the solar facility to the hydrogen facility, and other associated facilities and infrastructure. The Project would be capable of producing approximately 30,000 kilograms per day of renewable or "green" hydrogen for zero emission transportation fuel to be used by fuelcell electric vehicles operating statewide.

Location: The proposed project is located in an unincorporated area 10 miles east of Interstate 5, east of Los Angeles Avenue, south of W. American Avenue, west of State Route 33 (SR 33, also called S. Derrick Avenue), north of Manning Avenue, and 1.25 miles north of PG&E's existing Tranquillity Switching Station. The tertiary wastewater treatment facility would be located within the fence line of the existing Mendota Wastewater Treatment Plant (MWTP) located at 3699 Bass Avenue, Mendota.

The APNs that comprise the proposed Project site include Assessor Parcel Numbers (APNs): 028-140-38, 028-140-23, 028-140-32, 028-140-36, 028 140-37, 028-160-16, 028-160-17, 028-160-19, 028-160-20, 028-160-22, 028-170-17, 028-170-18, 028-170-41, 028-170-42, 028-170-43, 028-170-44, 028-170-45, 028-170-46, 028-170-47, 028-170-48, 028-170-60, 028-170-61, 028-060-32, 028-060-33, and 028-060-41.

The original NOP incorrectly associated the City of Mendota portion of the Project site, where the tertiary wastewater treatment facility would be located, on APN 013-020-06T. This APN is actually located well north of the current MWTP and proposed tertiary wastewater facility. Per a phone and email conversation between CDFW and Fresno County (Jeremy Shaw) on November 3rd, 2022, the correct APNs for the tertiary wastewater treatment facility include APNs 013-050-58ST, 013-050-68ST, and 013-050-73ST. CDFW evaluated the corrected APNs for this comment letter.

Timeframe: Unspecified

COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations below to assist Fresno County in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct, and indirect impacts on fish and wildlife (biological) resources. Editorial comments or other suggestions may also be included to improve the Draft EIR.

Aerial imagery of the Project boundary and its surroundings show the area contains undeveloped agricultural land and developed artificial ponds within the MWTP that may have suitable habitat for special status species. Based on a review of the Project description, a review of California Natural Diversity Database (CNDDB) records, and the surrounding habitat, several special status species could potentially be impacted by Project activities.

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The Project area is within the geographic range of several special status animal species including the State threatened Swainson's hawk (*Buteo swainsoni*). Additionally, the portion of the Project that is located within the MWTP is within the geographic range of the State and federally threatened giant gartersnake (*Thamnophis gigas*); and the State speceis of special concern western pond turtle (*Emys marmorata*).

Swainson's Hawk (SWHA)

SWHA have been documented to occur in several locations along the eastern boundary of the Project site (CDFW 2022) and have the potential to nest and forage within and adjacent to the Project site. The habitat types present within the vicinity of the Project site provide suitable foraging habitat for SWHA, increasing the likelihood of SWHA occurrence. In addition, there are trees and structures located within 10 miles of the Project area, specifically adjacent to the MWTP and Derrick Avenue, that may provide suitable nesting habitat.

To evaluate potential project-related impacts, CDFW recommends that a qualified wildlife biologist conduct surveys for nesting SWHA following the entire survey methodology developed by the SWHA Technical Advisory Committee (SWHA TAC 2000) as part of the biological technical studies conducted in support of the Draft EIR. SWHA detection during protocol-level surveys warrants consultation with CDFW to discuss how to implement Project activities and avoid take. In addition to conducting surveys, CDFW recommends the Draft EIR include the following measures:

Recommended Mitigation Measure 1: SWHA Surveys Prior to Construction
Depending on the time between the initial survey efforts conducted in support of the Draft EIR and project construction, CDFW recommends that additional surveys, following the survey methodology developed by the SWHA Technical Advisory Committee, be repeated the survey season immediately prior to construction.

Recommended Mitigation Measure 2: SWHA Avoidance Buffer
if Project-specific activities will take place during the SWHA nesting season (i.e., February1 through September 15), and active SWHA nests are present, CDFW recommends a minimum ½-mile no-disturbance buffer be delineated and maintained around each nest, regardless of whether it was detected by surveys or observed incidentally. These buffers would remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival, to prevent nest abandonment and other take of SWHA as a result of Project activities.

Recommended Mitigation Measure 3: SWHA Take Authorization
CDFW also recommends that in the event an active SWHA nest is detected, and a ½-mile no-disturbance buffer is not feasible, consultation with CDFW is warranted to

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discuss how to implement the project and avoid take. If take cannot be avoided, take authorization through the acquisition of an ITP, pursuant to Fish and Game Code section 2081 subdivision (b) is necessary to comply with CESA.

Recommended Mitigation Measure 4: SWHA Foraging Habitat Mitigation
Finally, CDFW recommends compensation for the loss of SWHA foraging habitat as described in CDFW's "Staff Report Regarding Mitigation for Impacts to Swainson's Hawks" (CDFG 1994) to reduce impacts to foraging habitat to less than significant. The Staff Report recommends that mitigation for habitat loss occur within a minimum distance of 10 miles from known nest sites. CDFW has the following recommendations based on the Staff Report:

- For projects within 1 mile of an active nest tree, a minimum of 1 acre of habitat management (HM) land for each acre of development is advised.
- For projects within 5 miles of an active nest but greater than 1 mile, a minimum of ¾ acre of HM land for each acre of development is advised.
- For projects within 10 miles of an active nest tree but greater than 5 miles from an active nest tree, a minimum of ½ acre of HM land for each acre of development is advised.

Special-Status Reptiles and Amphibians

Special status reptiles and amphibians including giant garter snake (GGS) and western pond turtle have been documented directly adjacent to the MWTP within the Fresno Slough (CDFW 2022). GGS in particular are known to occupy managed waterways, including those managed for agricultural irrigation (USFWS 2017). There is the potential that special status reptiles and amphibians may utilize the habitats directly adjacent to and within the MWTP. CDFW recommends that a qualified biologist conduct a habitat assessment within the MWTP and its immediate vicinity as part of the biological technical studies conducted in support of the Draft EIR. If any suitable habitat is documented within or directly adjacent to the MWTP during these surveys, coordination with CDFW is recommended for guidance on mitigation measures such as surveys, take avoidance, minimization, and mitigation.

Editorial Comments and/or Suggestions

Lake and Streambed Alteration: If streams, swales, or drainages occur on the Project site, Project activities may be subject to CDFW's regulatory authority pursuant to Fish and Game Code section 1600 et seq. Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may (a) substantially divert or obstruct the natural flow of any river, stream, or lake; (b) substantially change or use any material from the bed, bank, or channel of any river, stream, or lake (including the removal of riparian vegetation): (c) deposit debris, waste or other materials that could

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pass into any river, stream, or lake. "Any river, stream, or lake" includes those that are ephemeral or intermittent as well as those that are perennial.

CDFW is required to comply with CEQA in the issuance of a Lake or Streambed Alteration Agreement; therefore, if the Draft EIR approved for the Project does not adequately describe the Project and its impacts to lakes or streams, a subsequent CEQA analysis may be necessary for LSA Agreement issuance. For information on notification requirements, please refer to CDFW's website (https://wildlife.ca.gov/Conservation/LSA) or contact CDFW staff in the Central Region Lake and Streambed Alteration Program at (559) 243-4593 or R4LSA@wildlife.ca.gov.

Project Alternatives Analysis: CDFW recommends that the information and results obtained from the biological technical surveys, studies, and analysis conducted in support of the project's Draft EIR be used to develop and modify the project's alternatives to avoid and minimize impacts to biological resources to the maximum extent possible. When efforts to avoid and minimize have been exhausted, CDFW advises that remaining impacts to sensitive biological resources be mitigated to reduce impacts to a less than significant level, if feasible.

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database, which may be used to make subsequent or supplemental environmental determinations (Pub. Resources Code, § 21003, subd. (e)). Accordingly, please report any special-status species and natural communities detected during Project surveys to the CNDDB. The CNDDB field survey form can be found at the following link: https://www.wildlife.ca.gov/Data/CNDDB/Submitting-Data. The completed form can be mailed electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov. The types of information reported to CNDDB can be found at the following link: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and-Animals.

FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089).

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CONCLUSION

CDFW appreciates the opportunity to comment on the NOP to assist Fresno County Department of Public Works and Planning in identifying and mitigating Project impacts on biological resources.

If you have any questions, please contact Jeremy Pohlman, Senior Environmental Scientist (Specialist), at the address provided on this letterhead, by telephone at (805) 588-5674 or by electronic mail at Jeremy.pohlman@wildlife.ca.gov.

Sincerely,

DocuSigned by:
Julie Vance
FA83F09FE08945A...

Julie A. Vance
Regional Manager

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REFERENCES

California Department of Fish and Game (CDFG), 1994. *Staff Report Regarding Mitigation for Impacts to Swainson's Hawks (Buteo Swainsoni) in the Central Valley of California*. California Department of Fish and Wildlife.

CDFW, 2022. *Biogeographic Information and Observation System (BIOS)*. https://www.wildlife.ca.gov/Data/BIOS. Accessed November 03, 2022.

Swainson's Hawk Technical Advisory Committee (SWHA TAC), 2000. *Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in the Central Valley of California*. Swainson's Hawk Technical Advisory Committee. May 31, 2000.

United States Fish and Wildlife Service (USFWS), 2017. *Recovery Plan for the Giant Garter Snake (Thamnophis gigas).* U. S. Fish and Wildlife Service, Region 8, Sacramento, California. September 2017.

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Attachment 1

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
RECOMMENDED MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

PROJECT: Heartland Hydrogen Project

SCH No.: 2022100609

RECOMMENDED MITIGATION MEASURE	STATUS/DATE/INITIALS
Before Disturbing Soil or Vegetation	
SWHA	
Recommended Mitigation Measure 1: SWHA surveys prior to construction	
Recommended Mitigation Measure 3: SWHA take authorization	
Recommended Mitigation Measure 4: SWHA foraging habitat mitigation	
During Construction	
SWHA	
Recommended Mitigation Measure 2: SWHA avoidance buffer	

Westlands Water District
3130 N. Fresno Street, P.O. Box 6056, Fresno, California 93703-6056, (559) 224-1523, FAX: (559) 241-6277

November 22, 2022

Mr. Jeremy Shaw, Planner
Development Services & Capital Projects Division
Fresno County Public Works and Planning
2220 Tulare Street, Sixth Floor
Fresno, CA 93721

SUBJECT: Comments Regarding Environmental Impact Report (EIR) No. 7564 for the Heartland Hydrogen Project

Dear Mr. Shaw,

Westlands Water District (District) reviewed EIR No. 7564, the proposal to construct facilities to generate hydrogen fuel from photovoltaic solar energy and treated wastewater on approximately 2,371 acres west of Derrick Avenue and south of American Avenue. The District offers the following comments.

The project lands are not furnished water pursuant to the District's Regulations for the Allocation and Use of Agricultural Water and will not receive an allocation of groundwater pursuant to the Regulations for the Groundwater Allocation Program and Use of Groundwater in Within the Westside Subbasin.

However, the Applicant may be eligible to apply for and receive Municipal and Industrial (M&I) water services, and the land will continue to have access to the District's distribution system for lands used for solar development operations. If the Applicant applies to become a new M&I water user, the Applicant's operations will be bound by the Regulations, Terms and Conditions established by the District for M&I use. Copies of these are provided for your information, and notable provisions include:

- The Regulations stipulate the quantity of water that will be made available to a water user from the District's Central Valley Project (CVP) contract supply. The District will make available up to five (5) acre-feet annually, per 160 acres, for solar developments. The Applicant is responsible for acquiring more water if needed.

- The Applicant must comply with the District's Backflow Prevention guidelines for this connection to the District's water system.

- If there is not a delivery turnout on the property then the Applicant would be responsible for the development and construction of the pipeline to connect to the District's distribution system, including acquisition of easements, if required.

Based on the Project Location Map provided, the project site is located near the District's distribution system Laterals 6L, 7L, and 8L. Prior to construction, please contact Underground Service Alert (811).

- If project features, including electrical transmission facilities, may cross the District's distribution system laterals, please contact the District to obtain the requirements for crossing a District lateral easement(s).

Thank you for the opportunity to comment on this project. If you have any additional questions, please contact Kori Peterson at 559-241-6231.

Sincerely,

Russ Freeman, P.E.
Deputy General Manager of Resources

Adopted: 1/14/02
Revised: 1/15/13

ARTICLE 19. REGULATIONS REGARDING THE APPLICATION FOR AND USE OF MUNICIPAL AND INDUSTRIAL WATER WITHIN WESTLANDS WATER DISTRICT

19.1 PURPOSE

Westlands Water District has a long-term contractual entitlement to receive from the United States an annual supply of 1,150,000 acre-feet (AF) of Central Valley Project (CVP) water. The contracts between Westlands Water District and the United States allow the District to make CVP water available for municipal, industrial and domestic uses. The District may also acquire additional water supplies for these purposes. This Article establishes the rules and procedures for making application for and the use of municipal and industrial (M&I) water.

19.2 GLOSSARY OF TERMS AND DEFINITIONS

Unless specified below, the terms and definitions contained in Article 2 of these Regulations shall apply.

A. "Ag Related M&I Use" – the use of water exclusively for purposes of commerce, trade or industry associated with the production of agricultural crops or livestock, or their related by-products, including human uses, other than housing, that are incidental to the Ag Related M&I Use.

B. "Historic Use" – the greatest annual quantity of CVP water delivered for M&I Use to an M&I Water User at a point of delivery during the five-year period immediately preceding June 30, 2001.

C. "M&I Use" – the use of water for drinking, cooking, bathing, showering, dish washing, and maintaining oral hygiene or purposes of commerce, trade or industry.

D. "M&I Water Application" - an agreement in a form approved by the General Manager or his designee between the District and an M&I Water User, which describes the point of delivery for such water and the estimated quantity of water that will be made available by the District for M&I Use.

E. “M&I Water User” - individual or entity who has executed and submitted to the District an M&I Water Application or to whom the District makes water available for M&I Use.

19.3 M&I WATER AVAILABILITY

A. The General Manager shall set aside from the District’s CVP water supply or other sources he deems appropriate water for M&I Use.

B. The General Manager or his designee shall assist any M&I Water User in identifying a source of water that can be made available to the District for M&I Use; provided, that this provision shall not impose on the District or its employees an obligation to incur any expense or other obligation on behalf of such M&I Water User.

19.4 APPLICATION FOR WATER

A. Except for M&I Use initiated before July 1, 2001, to receive water for M&I Use, a proposed M&I Water User must file at the District's Fresno office an M&I Water Application. Upon approval by the District, the M&I Water Application shall constitute a valid agreement for M&I Use until the M&I Water User notifies the District in writing that such M&I Use will be terminated. Every M&I Water Application shall identify the point of delivery and the intended use of the M&I Water.

B. An M&I Water Application for use in excess of 5 acre-feet, or 5 acre-feet per 160 acres when such application is for a solar development covering such acreage, per year shall identify a source of water that will, at the applicant’s expense, be made available to the District for the proposed M&I Use.

C. Notwithstanding Section 19.4 B. of this Article, a M&I Water User may annually transfer into the M&I Water User’s account a quantity of water, from any source available to the M&I Water User, sufficient to satisfy any Ag Related M&I Use for the water year; provided, the M&I Water User shall acknowledge in writing that the District has no obligation to make available to the M&I Water User, in any

year, a quantity of water in excess of the quantity transferred into the M&I Water User's account.

D. A supplemental M&I Water Application shall be filed by any M&I Water User before the quantity of water for M&I Use made available to such M&I Water User is increased (i) above Historic Use, for M&I Water Users receiving M&I water before July 1, 2001, or (ii) above the quantity stated in the initial M&I Water Application, for M&I Use initiated after June 30, 2001.

19.5 USE OF WATER

A. The unauthorized use or taking of water for M&I Use, or the waste or unreasonable use of water, are prohibited. Water made available for M&I Use may only be used at the point of delivery and for the purpose(s) identified in the M&I Water Application. Except as provided in Section 19.5 B. of this Article, the transfer of M&I water is prohibited.

B. M&I water identified pursuant to Section 19.4 B. of this Article or water transferred by the M&I Water User pursuant to Section 19.4 C. of this Article may be transferred within the District's boundaries. Nothing contained in this Article shall prevent an M&I Water User from changing the place of use of its M&I water within the District's boundaries.

C. All M&I Water Users shall implement conservation measures adopted by the Water Policy Committee of the Board of Directors or its successor.

D. All M&I Water Users shall cooperate in the District's efforts to comply with the terms of the Compliance Agreement between the California Department of Health Services and Westlands Water District, dated June 1, 2001.

E. Every point of delivery for M&I Water shall be equipped with a backflow prevention device of a design approved by the General Manager.

F. The General Manager is authorized, after written notice to the M&I Water User, to discontinue water service to any M&I Water User who violates this Article or the Terms and Conditions for Municipal and Industrial Water Service.

G. In the event the District's water supply is insufficient to meet all demands for water, including demands for irrigation, the General Manager is authorized to

reduce the quantity of water made available for M&I Use or to impose such temporary conservation actions or other measures, as he deems necessary to protect the public health and safety.

19.6 COMPLIANCE WITH TERMS AND CONDITIONS

Each M&I Water User shall comply with the Terms and Conditions for Municipal and Industrial Water Service, as amended by the Board from time to time. Failure to comply with the Terms and Conditions for Municipal and Industrial Water Service may be grounds for termination of M&I Water Use service, and no water shall be furnished to an M&I Water User who fails to make required payments pursuant to the Terms and Conditions for Municipal and Industrial Water Service, as amended by the Board, from time to time.

19.7 MISCELLANEOUS

A. The General Manager may do all things necessary to implement and effectuate these Regulations.

B. An appeal from any decision made pursuant to these Regulations shall be made to the Finance and Administration Committee of the Board of Directors. Such appeal shall be in writing and shall be filed with the District Secretary within 15 working days after notice of the decision. The decision of the Finance and Administration Committee may be appealed to the Board of Directors. Such appeal shall be in writing and shall be filed with the District Secretary within 15 working days after notice of the decision. The decision of the Board shall be final.

C. The General Manager shall provide notice of any changes or revision to these Regulations to all District landowners and M&I Water Users.

WESTLANDS WATER DISTRICT

OFFICE--3130 N. FRESNO STREET/MAILING--P. O. BOX 6056, FRESNO, CA 93703
TELEPHONE: WATER DEPT. (559) 241-6250/OTHER (559) 224-1523/FAX (559) 241-6276

TERMS AND CONDITIONS FOR MUNICIPAL AND INDUSTRIAL WATER SERVICE

1. The furnishing of water to and its use by the water user shall be subject to all regulations of the Board of Directors of the District as the same may exist now or hereafter be amended or adopted. In the event of a conflict between the terms and conditions set forth herein and the regulations, the latter shall be controlling.

2. All water delivered shall be pursuant to a request by the water user for the delivery of a stated amount to a specific location. The request shall be made within the time and in the manner prescribed by the General Manager.

3. Water will be furnished by the District subject to the terms and conditions under which the water is made available to the District and if, in the exclusive judgment of the District, the water and facilities for its delivery are available; provided, that the District will use its best efforts, to the extent that it has water and capacity available and taking into account the requirements of other water users to receive water from its facilities, to provide such water in the manner and at the times requested. The District may temporarily discontinue water service or reduce the amount of water to be furnished for the purpose of such investigation, inspection, maintenance, repair, or replacement as may be reasonably necessary of any of the District 's facilities. Insofar as feasible, the District will give the water user notice in advance of such temporary discontinuance or reduction, except in case of emergency, in which event no notice need be given. No liability shall accrue against the District or any of its officers, directors, or employees for damage, direct or indirect, because of the failure to provide water as a result of system malfunctions, interruptions in service necessary to properly operate and maintain the water distribution system, or other causes which are beyond the District's reasonable control.

4. By taking delivery of water from the District, the water user assumes responsibility for, and agrees to hold the District harmless from, all damage or claims for damage, which may arise from his furnishing or use of the water after it leaves the District facilities.

5. The water furnished by the District is not potable (suitable for drinking, cooking, bathing, or other domestic use) and the District does not warrant the quality or potability of water so furnished. By taking delivery of water from the District, the water user assumes responsibility for, and agrees to hold the District harmless from, damage or claims for damage arising out the non-potability of water furnished by the District. Untreated water must never be used for any type of human consumptive needs. A water user defined and operating as a Public Water Supply (PWS) shall be responsible for any water treatment, including but not limited to filtration and chlorination achieved through central treatment or point-of-entry (POE) treatment devices approved by the California Department of Health Services (DHS), in order to provide water safe for human consumption as required by Federal, State or local law or regulation.

According to DHS, the use of POE treatment systems by individual customers of a constructed conveyance system may not provide a continuous safe, potable supply of water due to inadequate operation and maintenance of these systems by the owners, unless they are a regulated PWS. Individual use of POE devices (“Water Treatment Exclusion”) may only be used if they are approved by DHS and are regularly maintained by a State-licensed operator or service provider.

Facilities in place prior to July 2001, may continue to use bottled water for drinking and cooking ("Alternative Water Exclusion"). After July 2001, the District cannot furnish new municipal and industrial water service if bottled water use is the basis for the potable water supply unless approved by DHS. Bottled water may only be obtained from a State-licensed provider.

DHS mandates the District conduct periodic surveys of water use as required by the Safe Drinking Water Act and to collect records for Alternative Water and Treatment Exclusions. Records for exclusions include invoices or statements of bottled water delivery from a licensed provider or maintenance and service records for a POE system from a licensed operator. Water users who fail to complete a survey or provide records showing an approved exclusion requested by the District shall have water service discontinued if no response is received after a reasonable attempt has been made to obtain the information.

6. All water will be measured by the District with meters installed by it and such measurements shall be final and conclusive.

7. Charges for water, hereinafter referred to as "water charges", shall be established by the Board of Directors. The water charges shall include District operation and maintenance costs and any other costs determined by the Board to be payable as part of the water charges. Water charges shall be adjusted retroactively to the extent required and authorized by federal or state law or regulations or District regulations. The General Manager may adjust the water charges as necessary and legally authorized to account for increases or decreases in the estimates used to establish the water charges.

8. As a condition of the District continuing to furnish water, the water user shall make payment for the amount billed after the District's billing and by the 25th of the month in which the bill is mailed; provided, that the due date will be not less than 15 calendar days after the billing date. Charges not paid by the due date shall be delinquent; provided, that payments postmarked on or before the due date shall be deemed to have been received by that date. The payment of water charges or related penalties or interest shall be made at the District's Fresno office. When any deadline established herein falls on a Saturday, Sunday, or holiday, it shall be extended to the next working day.

9. All claims for overcharges or errors must be made in writing and filed with the District at its Fresno Office within 10 working days after the date the bill is received by the water user. In the event the water user files a timely written protest, the District's Finance & Administration Committee shall consider the protest at its next regular meeting and notify the water user in writing of its decision. The Committee's decision shall be final, unless a written appeal to the Board of Directors is filed with the Secretary of the District within 15 working days after notice of the decision. In the event of an appeal, the decision of the Board shall be final. The filing of a protest or an appeal does not nullify the payment requirement or the District's right to discontinue water service as provided in these terms and conditions. However, in the event the protest or appeal is sustained, the District will refund the amount of the overcharge and penalty, if any.

10. On the first day following the due date, a penalty of 10 percent of the water charges which became delinquent on the preceding day shall be added to the water charges and penalties and interest, if any, due and owing to the District, the total of which are hereinafter referred to as "unpaid charges." Prior unpaid charges shall accrue interest at a monthly rate of 1½ percent. The interest shall not, however, accrue after the unpaid charges have been added to, and become a part of, the annual assessment levied on the land by the District. All payments and credits shall be applied to the earliest unpaid charges.

11. At the time of filing the District's assessment book with the District Tax Collector, unpaid charges may be added to and become a part of the assessment levied by the District on the land which received the water or for which other water charges were incurred. The District shall notify the landowner of the expected amount prior to its addition to the annual assessment. The amount so added shall be a lien on the land and impart notice thereof to all persons. If the assessment becomes delinquent, penalties and interest will be added as provided by law.

12. To supplement the procedure described in paragraph 11, the District may elect to file and record a Certificate of Unpaid Water Charges as provided in California Water Code Section 36729. This

Certificate creates a lien in the amount of unpaid charges on any land owned by the delinquent water user, or acquired by the water user before the lien's expiration, within the recording County.

13. Except as provided in paragraph 15, municipal and industrial water service shall not be provided to any parcel of land for which the unpaid charges for such service are a lien on the land or for which the assessment is delinquent.

14. Except as provided in paragraph 15, municipal and industrial water service shall not be provided to any person who owes the District unpaid charges notwithstanding the fact that the unpaid charges have been added to the assessment(s) on the parcel(s) for which they were incurred.

15. Where the District furnishes residential water service to persons other than the water user to whom the service is billed, the District shall make a reasonable, good faith effort to inform the actual users of the services when the account is delinquent. This shall be done by a notice that service will be terminated in 10 days. The notice shall inform the actual users that they have the right to become customers of the District without being required to pay the amount due on the delinquent account.

The District is not required to make service available to the actual users unless each actual user agrees to the terms and conditions of service. However, if one or more actual users are willing and able to assume responsibility for the entire account to the satisfaction of the District, or if there is a physical means legally available to the District of selectively terminating service to those actual users who have not met the requirements of the District's terms and conditions, the District shall make service available to the actual users who have met those requirements. In making service available to an actual user, the District may require that a deposit be paid to the District prior to establishing an account and furnishing service. If a deposit is required, it shall be based solely upon the creditworthiness of the actual user as determined by the District.

The District will give notice of the delinquency and impending termination of residential water service, at least 10 days prior to the proposed termination, by means of a notice mailed postage prepaid or by personal delivery to the water user to whom the service is billed not earlier than 19 days from the date of mailing the District's bill for services, and the 10-day period shall not commence until 5 days after the mailing of the notice. When the day established for the discontinuance of water service falls on a Saturday, Sunday, or District holiday, such water service shall be discontinued on the next working day.

The District will make a reasonable, good faith effort to contact an adult person residing at the premises of the water user by telephone or in person at least 48 hours prior to any termination of residential water service.

The District will comply with all other applicable provisions of California Government Code Sections 60370-60375.5 regarding termination of residential water service.

16. Except as provided in paragraph 15, in the event water service hereunder is discontinued as a result of nonpayment of water charges, all unpaid charges for such service which are due the District from the person in default must be paid before water service can be restored.

17. If a water user's delinquent charges are unpaid for 30 days or more, or if a water user's delinquent charges are added to the annual assessments on any lands within the District, or the procedure in paragraph 12 is implemented, the General Manager shall require, as a condition of resumption of water service, that advance payment of all water charges be made for the 12-month period immediately following resumption of service, according to a schedule to be determined by the General Manager. A written guarantee in a form satisfactory to the General Manager from a recognized financial lending institution may be substituted in lieu of advance payment.

18. The General Manager, after consultation with and approval by the Finance & Administration Committee, may also require advance payment and/or payment by cashier's check or such other actions as he may deem necessary when a water user's account is determined, based on the payment history or other actions of the water user, to create a financial risk or hardship for the District or its landowners. Circumstances which constitute the basis for such a determination include but are not limited to the following: (1) instances of a water user's checks being returned unpaid or (2) instances where a water user whose account is delinquent has, in violation of District regulations, taken water from a District delivery.

19. By applying for or taking delivery of municipal and industrial water from the District, the water user agrees to these terms and conditions of service.

20. The District may modify or terminate these terms and conditions; provided, that such modifications or terminations are prospective only and notice thereof is given prior to the effective date by mail to the water user.

Appendix B
Project Description

B1 Pest Management Plan

B2 Reclamation Plan

B1 Pest Management Plan

PEST MANAGEMENT PLAN

HEARTLAND SOLAR FACILITY

FRESNO COUNTY, CA

SUBMITTED TO:

Fresno County Department of Public Works and Planning
Development Services Division
2220 Tulare Street, 6th Floor
Fresno, California 93721

PREPARED BY:

Heartland Hydrogen Project

August, 2021

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Acronyms and Abbreviations

CUP	Conditional Use Permit
EIR	Environmental Impact Report
EPA	U.S. Environmental Protection Agency
FCAC	Fresno County Agricultural Commissioner
Gen-tie	generation tie-line
IPM	integrated pest management
IPWMP	Integrated Pest and Weed Management Plan
kV	kilovolt
mph	miles per hour
MW	megawatt
O&M	Operations and Maintenance
PPE	Personal Protective Equipment
Project	Heartland Solar Project
PV	Photovoltaic
PPA	Power Purchase Agreement
SDS	Safety Data Sheets
WEAP	Worker Environmental Awareness Procedure

1 Introduction

1.1 Purpose of the Plan

This Pest Management Plan (PMP) outlines procedures and strategies for controlling pests at the Heartland Solar Facility. The PMP is designed to satisfy a requirement of Fresno County's Solar Facility Guidelines (Rev. December 12, 2017) for solar projects, which specifies that the Project operator shall develop and implement an on-site PMP to "identify methods and frequency to manage weeds, insects, disease and vertebrate pests that may impact adjacent sites."

General requirements for these additional mitigation measures are outlined in Section 3. As required by the CUP, this PMP has been submitted for approval to the Fresno County Department of Public Works and Planning Development Services Division (County).

1.2 Project Location and Overview

The Heartland Solar Facility ("Facility") proposes to construct, own, operate and eventually decommission an approximately 300 megawatt (MW) solar photovoltaic power generation facility on rural agricultural lands south of Mendota in Fresno County, California. The Facility will be constructed as part of the larger Heartland Hydrogen Project, which includes the Heartland Solar Facility and the Heartland Hydrogen Facility. Combined, the Heartland Hydrogen Project will produce renewable hydrogen for zero-emission transportation fuel. The Facility will consist of a 300 MW facility along with associated infrastructure including a substation and operation and maintenance building. The Facility will produce electricity for the adjacent Heartland Hydrogen Facility and will also interconnect to the electrical grid at Pacific Gas and Electric's (PG&E) Tranquility Substation, located approximately two miles south of the Project site. The proposed solar facility is intended to operate year-round.

The location of the project is depicted in Figure 1.

2 Procedures and Methodologies

2.1 Weed Management

Weed management at the proposed Facility will include identification of problem areas, implementation of measures intended to prevent the spread and establishment of new weed occurrences, and application of appropriate measures to treat known occurrences of weeds. These steps toward effective weed management are described in the following sections.

There are no known special status plant species that occur on the Facility site. The Fresno County Agricultural Commissioner's office has identified several non-native, invasive weed species that have the potential for spread if not properly identified and managed. Further information is provided in Section 4.

2.1.1 Preventative Measures

The prevention of weed establishment is the most effective weed management practice. Preventing or reducing the potential for weed establishment reduces additional efforts, costs, and time invested in subsequent weed control or eradication measures. Several measures have proven to be effective toward preventing the spread and establishment of weeds on projects where surface disturbing activities are proposed. The following preventative measures will be implemented:

- Vehicles and equipment to be used in off-road areas while on site will be inspected at the site entrance prior to entry to site by EHS personnel or individuals under EHS personnel direction. If excessive dirt/mud and/or visible plant materials is observed, the vehicle/equipment will be washed prior to gaining entry to the site. Washing will occur off site at existing car washes with appropriate containment facilities.
- Vehicle cabs may be subject to cleaning in an effort to remove refuse, soil, or other materials susceptible to transporting weed seeds or other plant structures. The use of compressed air is recommended for cleaning vehicle cabs before and immediately prior to departing the site.
- All imported or procured materials used for site reclamation, revegetation, and installation of stormwater/erosion control measures will be certified as weed free by the vendor.
- Disturbance areas will be limited to the smallest area needed for construction.
- The WEAP training will include a section on weed spread and colonization.

2.1.2 Treatment Methods

Treatment methods are necessary to control and eradicate known invasive and noxious weed occurrences. Treatment methods include a variety of approaches such as mechanical, chemical, and biological controls. The most appropriate and effective weed treatment measures will be determined following the assessment of existing weed populations on the Project site. Herbicides may be used for weed control, consistent with labeling requirements and applicable local regulation.

Mechanical treatments include the use of physical means to remove plants, reproductive parts, or propagules. Mechanical treatments include manual methods (pulling weed plants from the soil), use of hand tools and hand-held power tools, mowing, and more aggressive efforts that involve removing above and below ground plant structures. The designation of the appropriate mechanical treatment will depend on variables including season, plant life stage, weed species, size and population of each occurrence, and more.

Chemical treatments involve the use and application of pre- and/or post-emergent herbicides. The use of herbicides is highly regulated and involves a variety of specific protocols, safety measures, and precautions for eliminating, reducing, and mitigating for uncontrolled releases. Pre-emergent herbicides are applied to the soil before the weed seed germinates and usually incorporated into the soil with irrigation or rainfall. Post-emergent herbicides are applied directly to plants. Timing is critical for both pre-emergent and post-emergent herbicide application. In the Project vicinity, pre-emergent herbicides would primarily be applied in early fall, prior to fall/early winter rains. Post-emergent herbicides must be applied while the weed is actively growing, most effectively in the early seedling stage, but always prior to seed set. Therefore, all post-emergent treatments will occur between February and early April. Species-specific herbicides may be used as appropriate and available, along with other mechanical and chemical means for post-emergent elimination. When possible, selective herbicides may be used to target specific weed species, rather than all plant growth. The perimeter between the fence and the panels may be treated to prevent weeds or vegetation from growing and causing a possible risk for wildland fire exposure. The possible use of herbicides as a treatment method is described in additional detail in Section 2.1.3 of this plan.

Biological treatments include the use of plants and animals (particularly insects) that parasitize, ingest, or out-compete weed species. Based on the weed species expected to occur in the Project area and other factors, biological controls are not expected to be a viable or appropriate alternative for treating weed occurrences at the proposed site.

2.1.3 Herbicide Handling and Application

Weed management contractors/personnel that are responsible for applying herbicides will obtain all of the required Federal, State, or local agency permits and will hold all necessary certifications and have received all relevant training. Permits may include terms and conditions that are not included in this weed management plan. A licensed contractor will apply herbicides in accordance with all applicable

laws, regulations, and permit stipulation, including EPA label instructions. If faced with any of the following scenarios, herbicide application shall be suspended until such conditions no longer exist:

- Wind velocities in excess of 10 miles per hour (mph) during application of liquid herbicides and 15 mph during application of dry herbicides;
- Snow or ice present on weed foliage; or
- Within 12 hours of forecasted rain, or when plant surfaces are covered with water from recent rainfall or dew.

Herbicides glyphosate (Roundup, Touchdown) and pelargonic acid (Scythe) can be used to control small weed populations. Other herbicides can only be used if they are Federal or State Government-approved and applied by a licensed contractor.

For weed infestations readily accessible and passable by vehicle, vehicle-mounted applicators will be used. Manual application methods will be used in weed occurrences that are relatively small, inaccessible by established road or ROW, or in rough, varied terrain. All herbicide applicators, spreaders and sprayers, will be calibrated before each use to ensure all applications rates and procedures are appropriately implemented.

Herbicide transport and handling will follow these methods:

- No herbicides will be stored on-site.
- Only the quantity of herbicide expected for each day's use will be transported.
- Herbicide concentrate will be transported in approved containers in a controlled manner so as to prevent spills. Concentrate will be positioned in delivery or work vehicles so as to be secured and separated from the driving compartment, food, clothing, and safety equipment.
- The mixing of herbicide materials will be conducted at an off-site location or within a controlled space in the O&M Area that is designated on-site. All mixing will take place over a drip/spill containment device and at a distance more than 200 feet from open or flowing water, wetlands, or other sensitive resources.
- Herbicides will not be applied to areas of open or flowing water, wetlands, or other sensitive resources unless authorized by the appropriate regulatory agency.
- All equipment and containers used for herbicide storage, application, and transport will subject to inspection for leaks or damage.
- Emptied herbicide containers will be disposed in accordance with instructions provided on the label.

2.1.4 Herbicide Spills and Cleanup

All spills and inadvertent releases of herbicides will be addressed immediately upon detection. Spill response kits will be readily available in herbicide contractor vehicles and in daily on-site herbicide storage areas.

Spill response will vary depending on a variety of conditions, including location, amount of spill, area impacted by spill, type of herbicide spilled, and more. For each spill the following procedures should be implemented:

- Disseminate the appropriate on-site and agency notifications of a spill.
- Secure the affected area barring pedestrian and vehicle traffic.
- All spill response personnel shall put on the appropriate Personal Protective Equipment (PPE) prior to entering the spill containment area.
- Personnel, while wearing the appropriate PPE and equipped with the necessary tools and equipment, shall stop the herbicide leak or release.
- All materials associated with spill response, including the released herbicide, affected soils and plants, absorptive material, clothing, and PPE shall be removed and containerized according to appropriate regulations and procedures.

All generated spill response containers shall be transported, following appropriate regulations, and disposed legally at an approved disposal facility.

2.1.5 Worker Safety and Spill Reporting

All contractors responsible for herbicide use, transport, application, and control at the site will hold the appropriate certifications. Such certifications shall be made available. Contractors transporting herbicides to the site shall also have legible Safety Data Sheets (SDS) and labels on-site. All herbicide spills and inadvertent releases shall be reported in accordance with all applicable laws and regulations.

2.2 Pest Management

Pests, such as rodents, tend to thrive in areas with higher vegetative growth, particularly those providing both shelter from predation and a source of high-quality food. Consequently, vegetation management is the preferred method to manage pest populations on the Facility site.

The Facility site may potentially support special status wildlife species during Project operations. These species include the San Joaquin kit fox (*Vulpes macrotis mutica*), Western burrowing owl (*Athene cunicularia*) and Swainson's hawk (*Buteo swainsoni*). The Facility proposes to meet the goal of pest

management while protecting sensitive wildlife species by preferentially supporting ecological pest control practices on-site, as further described below.

The Fresno County Agricultural Commissioner's office provides guidance regarding the identification and control of pests. Additional information is provided in Section 4.

2.2.1 Preventive Controls

2.2.1.1 Vegetation Management

Rodent populations flourish in areas with uncontrolled vegetation growth, as tall, dense stands of weeds provide shelter and food resources for rodents.

Establishment of the Facility would make the site less attractive to rodents by limiting vegetation from growing there and by not providing cover for them to hide. The UC Davis Integrated Pest Management (IPM) guidance recommends removing weeds, heavy mulch, and dense vegetative cover to make habit for rodents less suitable. As described in Section 2.1, weed control measures would be implemented supporting the reduction of habitat available to pest rodent species. Mowing and/or spraying with herbicides will manage the growth of uncontrolled and/or invasive vegetation on-site.

2.2.1.2 Facilitate Predation by Natural Predators

To support the potential wildlife habitat value of the site during Facility operations, the Facility proposes to manage rodent populations through natural predator-prey techniques. The site may provide foraging habitat for several predator species of rats, voles, and other rodents: northern harrier; Swainson's and ferruginous hawks; prairie falcon, and golden eagle. Northern harrier prey on small mammals, especially mice, rats, voles, shrews, rabbits, and song birds, in addition to small reptiles and amphibians. Major prey for hawk species include California voles, valley pocket gophers, rabbits, deer mice, and California ground squirrels (Estep 1989). Prairie falcons prey on small birds, mammals, and reptiles, particularly ground squirrels. Golden eagles prey on small- to medium-sized mammals, including hares, rabbits, jackrabbits, ground squirrels, prairie dogs, and marmots, in addition to some larger prey. Implementation of weed management practices would support optimum hunting habitat for predator species by ensuring vegetation does not grow too tall to limit visual spotting of or access to prey.

2.2.1.3 Avoiding Rodent Attractants

Review of the UC Davis IPM guidance for rat control indicates that solar arrays do not provide significant habitat favored by rats. No potential food sources would be present in the array area, and the solar arrays would not provide cover for their nests. Burrowing rodents such as Norway rats are found along building foundations and in moist areas in and around garden and fields. Areas around building foundations will be monitored for signs of rodents and pest removal options will be used where appropriate. Additionally, water use will be minimal during operations of the facility thereby minimizing attraction to the site by rodents seeking water sources.

The most successful and long-lasting form of rodent control in structures is exclusion, or "building them out." The Facility will seal cracks and openings in building foundations and any openings for water pipes, electric wires, sewer pipes, drain spouts, and vents. The Project will ensure that doors, windows, and screens fit tightly. Their edges can be covered with sheet metal if gnawing is a problem. Coarse steel wool, wire screen, and lightweight sheet metal are excellent materials for plugging gaps and holes. Norway and roof rats are likely to gnaw away plastic sheeting, wood, caulking, and other less sturdy materials.

Because rats and house mice are excellent climbers, openings above ground level must also be plugged. Rodent proofing against roof rats, because of their greater climbing ability, usually requires more time to find entry points than for Norway rats. Roof rats often enter buildings at the roofline, so the Facility will ensure that access points in the roof are sealed. If roof rats are traveling on overhead utility wires, contact a pest control professional or the utility company for information and assistance with measures that can be taken to prevent this.

Strict trash policies will be enforced at the Facility site; workers shall be trained in the requirements of utilizing approved, rodent-proof trash containers which will be emptied regularly. Standing water will also be avoided in dust spraying or other water-use operations.

2.2.2 Pest Removal Options

The construction and operation of the Facility would significantly reduce the number of invasive pests on the site; however, preventive controls are not always completely successful. Pest rodent populations may need to be managed through pest removal practices. To support the ecological value of the site, the priority of the Facility is to manage rodent populations through the vegetation/natural predator-prey techniques discussed above. While this approach to pest management is preferred, should rodent populations persist and create operational problems or risks to human health (e.g., chewing through electrical wiring or exposing employees to nests and droppings) then more active management measures may be employed.

Trapping would be the preferred active management technique should avoidance and predator/prey techniques fail to provide sufficient management. Trapping would be employed for 3-6 months and evaluated for success before other management options are considered. Trapping would be done in accordance with management methods such as those provided in the University of California, Davis *Integrated Pest Management for Home Gardeners and Landscape Professionals (for Rats and/or Voles)* guidelines (UC Davis IPM).

The use of rodenticides would be restricted and they would only be employed should other management techniques fail. All uses of such compounds will observe label and other restrictions mandated by the U.S. Environmental Protection Agency, California Department of Food and Agriculture, and other state and federal legislation. If rodent control must be conducted, zinc phosphide will be used because of its proven lower risk to San Joaquin Kit Fox. Bait stations shall be enclosed so the opening is

accessible for the target rodent (i.e., 2-inch diameter for ground squirrel), but the openings will be at an elevated angle so that bait remains inside the station under all conditions.

3 Training and Recordkeeping

All workers will complete required WEAP training before starting work. WEAP training will include a section on weed spread and colonization and rodent control. Construction management will designate staff that will be trained to identify noxious weeds and will be responsible for operating and maintaining equipment to control weeds and rodents. Weed management contractors/personnel that are responsible for applying herbicides will obtain all of the required training and permits and will hold and provide evidence of all necessary certifications. Site staff will maintain records of any herbicide use on the Facility site.

4 Specific Guidance for Fresno County

The Fresno County Agricultural Commissioner's office (FCAC) provides information on the identification and control of pests known to occur in Fresno County. The FCAC should be periodically consulted for changes in information or assistance in the identification and control of pests on the Facility site. This PMP should be updated, as warranted, to reflect pertinent changes in information that will assist in the control of pests on the Facility site. Fresno County-specific pest management information can be found on the FCAC website[1].

4.1 Weed Management

The FCAC has identified several non-native, invasive and noxious weed species that occur in Fresno County. By their nature, these species have the potential to spread and cause economic damage to neighboring crops or livestock. Special attention should be paid to the early identification and control of these species, listed below. The FCAC can provide additional assistance in the identification and control of these species.

- Hoary Cress (*Cardaria draba*)
- Perennial Pepperweed (*Lepidium latifolium*)
- Purple Starthistle (Centaurea calcitrapa)

As with general vegetation management, the use of mechanical or chemical treatments to control noxious weeds would consider actions necessary to protect special status species that may be present on the Facility site.

4.2 Pest Management

As described in Section 2, due to the potential for special status species to occur on the Facility site, the Facility will preferentially support ecological pest control practices. Ecological pest control practices are the least invasive pest control methods and provide natural predator/prey opportunities for special status species that may occur on the Facility site.

[1] https://www.co.fresno.ca.us/departments/agricultural-commissioner/pest-management

The FCAC provides general information on the control and identification of pests known to occur in Fresno County. The FCAC should be periodically consulted for updated information on pests that have the potential to occur on the Project site.

5 References

California Department of Food and Agriculture. *Plant Health and Pest Prevention Services (PHPPS): Integrated Pest Control (IPC) – Noxious Weeds Program*. Available at http://www.cdfa.ca.gov/phpps/ar/ipc_nw.html.

California Department of Pesticide Regulation. Website: http://www.cdpr.ca.gov/.

California Department of Pesticide Regulation; Product/Label Database Queries & Lists. Website: http://www.cdpr.ca.gov/docs/label/labelque.htm.

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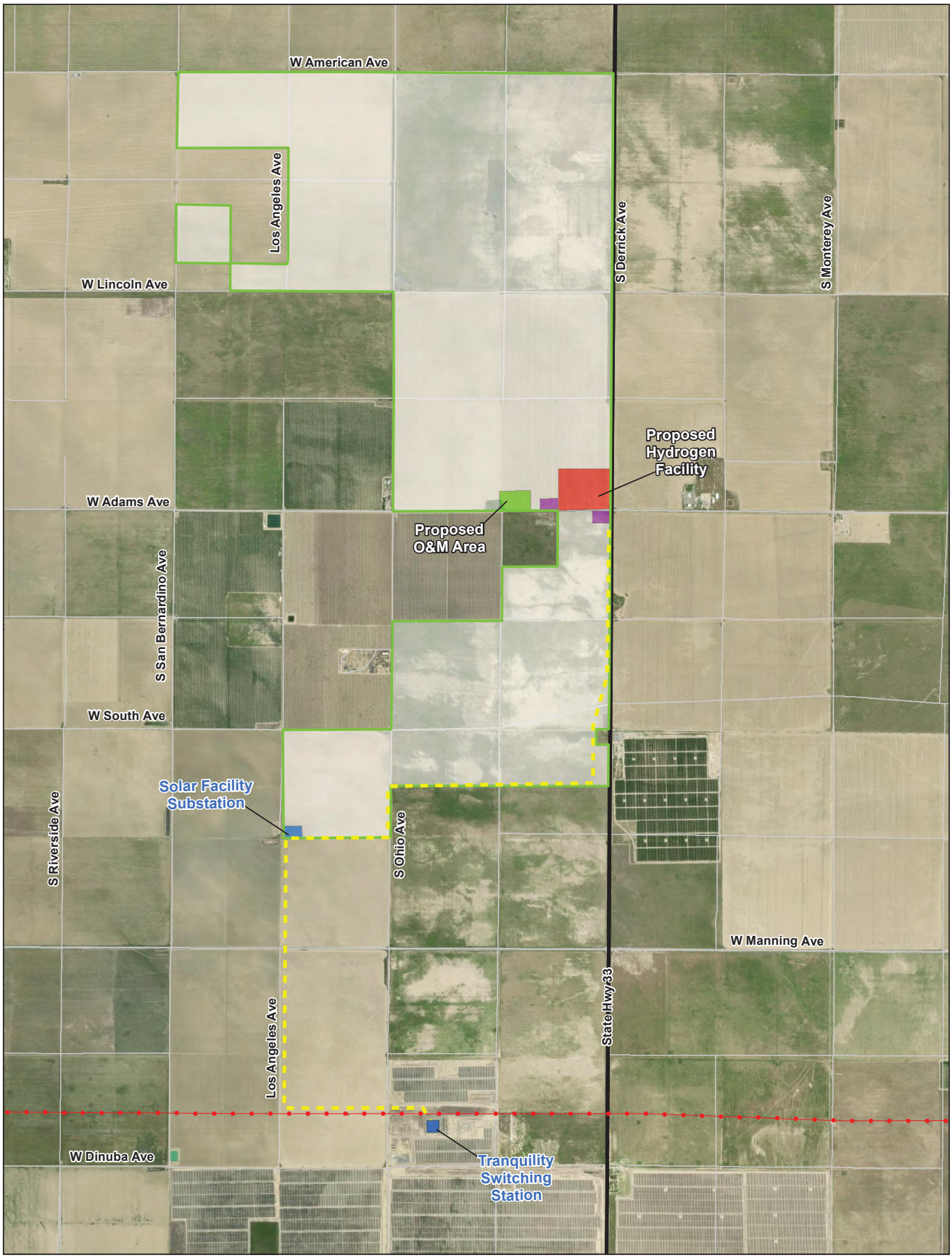
University of California, Davis. January 2003. Integrated Pest Management for Home Gardeners and Landscape Professionals – Rats. Pest Notes Publication 74106. Website: http://www.ipm.ucdavis.edu/PMG/PESTNOTES/pn74106.html.

United States Department of Agriculture). *Inventory of California State-Listed Noxious Weeds*. Available at http://plants.usda.gov/java/noxious?rptType+State&statefips+06. Accessed December 2009.

United States Environmental Protection Agency, Controlling Rodents and Regulating Rodenticides Website: http://www2.epa.gov/rodenticides.

FIGURES

Figure 1: Project Site PLan



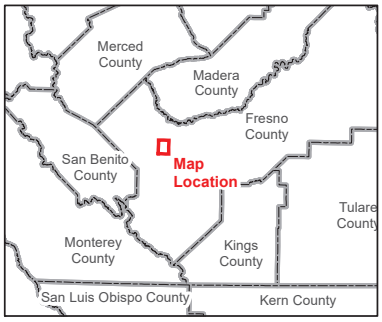
LEGEND

Project Components

- Gen-Tie / Elecric Service Line Route
- Heartland Hydrogen Project
- Solar Facility Substation
- Solar Facility Substation (Alternative)
- Hydrogen Facility
- Solar Facility O&M Area
- PV Array

General Features

- Switching Station
- Road
- State Highway
- Existing 230 kV Transmission Lines
- County Boundary



HEARTLAND HYDROGEN PROJECT

Site Map

Map Extent: Fresno County, CA

0 1,000 2,000 3,000 4,000 5,000

Feet

Data Sources: ESRI, Fresno Co., USDA, USGS. SPCS NAD83 CA Zone III Feet. F:...\080421.mxd RNC 8-04-21

B2 Reclamation Plan

PRELIMINARY
CLOSURE, DECOMMISSIONING, AND RECLAMATION PLAN

HEARTLAND SOLAR PROJECT
FRESNO COUNTY, CA

SUBMITTED TO:
Fresno County Department of Public Works and Planning
Development Services Division
2220 Tulare Street, 6th Floor
Fresno, California 93721

PREPARED BY:
Heartland Solar 1, LLC

August 2025

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APPENDICES

Appendix A Reclamation Cost Estimate
Appendix B Landowner Notification Letters

Acronyms and Abbreviations

Applicant	Heartland Solar 1, LLC
Project	Heartland Solar Project
PV	photovoltaic
Reclamation Plan	Closure, Decommissioning, and Reclamation Plan

1 Introduction

Heartland Solar 1, LLC (Applicant), a wholly owned indirect subsidiary of Clearway Energy Group LLC, proposes to construct, operate, maintain, and decommission the Heartland Solar Project (Project), which consists of renewable photovoltaic (PV) solar energy generation and energy storage system facilities on approximately 2,362 acres of private land in western Fresno County.

1.1 Purpose of the Reclamation Plan

The purpose of this preliminary Closure, Decommissioning, and Reclamation Plan (Reclamation Plan) is to establish the methodologies that could be employed for decommissioning and reclamation activities associated with the Project. The actual actions implemented in the solar facility closure will be determined based on the expected future use of the site. Therefore, a more detailed and final Reclamation Plan will be developed in advance of the start of decommissioning activities.

This Reclamation Plan has been developed in compliance with a requirement in Fresno County Development Services Division's *Solar Facility Guidelines* to "provide a Reclamation Plan detailing the lease life, timeline for removal of the improvements and specific measures to return the site to the agricultural capability prior to installation of solar improvements." The Guidelines provide specific direction on the contents of the Reclamation Plan, which are discussed in further detail starting in Section 2.

The Project is expected to operate at a minimum for the term of its Power Purchase Agreement or other energy contracts. For the purpose of developing this Reclamation Plan, it is required that when the Project is decommissioned, all solar facility structures and electrical equipment will be removed from the site and the disturbed areas will be reclaimed for purposes of restoring the site to its present-day conditions, to the extent feasible.

This preliminary Reclamation Plan addresses the following:

- Project Description
- Regulatory Criteria
- Decommissioning and Reclamation Activities
  - Pre-Decommissioning
  - Removal of Facilities
  - Hazardous Waste Management
  - Debris Management, Disposal, and Recycling
  - Post-Demolition Site Restoration
- Project Reclamation Costs and Bonding

As mentioned above, because this document addresses Project actions that will occur well in the future,

it will be updated and finalized in the months prior to the scheduled decommissioning. This will ensure the final Reclamation Plan addresses the proposed future land use of the site and the applicable rules and regulations in place at that time.

1.2 Project Location and Overview

The Project proposes to construct, own, operate, and eventually decommission an approximately 300-megawatt solar PV power generation facility on rural agricultural lands south of Mendota in Fresno County, California. The Project will consist of a 300-megawatt solar facility along with associated infrastructure including a substation, battery energy storage system, generation-tie line, and operation and maintenance building. The Project will interconnect to the electrical grid at Pacific Gas and Electric's Tranquillity Switching Station, located approximately two miles south of the Project site. The proposed solar facility is intended to operate year-round.

The regional vicinity of the Project is depicted in **Figure 1** and the Project site map is depicted in **Figure 2**.

2 Guidance for Reclamation Plan Contents

Fresno County's Solar Facility Guidelines provides the following guidance on the minimum content for reclamation plans[1]. Where necessary, reference is made to other sections of the Reclamation Plan where more detailed information is provided:

1. Description of present use of the site;

The site is intermittently used for dry-farm agriculture and related activities, such as seasonal livestock grazing. According to information provided by Westlands Water District, the Project property is non-irrigable and thus only capable of being dry farmed. The site has either been dry farmed or lain fallow during the past ten years.

2. Describe the proposed alternate use of the land (all equipment to be installed above and underground, structures, fencing, etc.);

The Project will include the following main elements: modular PV solar panels on horizontal, single-axis trackers; direct current to alternating current power inverters mounted on concrete pads; three-phase transformers mounted on concrete pads, a medium-voltage (34.5 kilovolt) collection system either overhead or underground, electric substations, a battery energy storage system, a 230-kilovolt generation-tie line, a control/administration building and parking lot, meteorology towers, security fencing and lighting and other on-site facilities as required. Onsite detention or retention basins will be constructed to contain storm water runoff from areas of the Project site.

3. Duration of the alternate use of the property (specify termination date);

The Project is expected to be in commercial operation for approximately 35 years from the commencement of operations, with a potential for continued use in accordance with Fresno County permitting requirements, which will require an amendment to the approved and potential Conditional Use Permits.

4. Address ownership of the property (lease or sale);

The Project properties will be owned in fee title as follows:

Facility	Property Owner
Heartland Solar Facility	Heartland Solar 1, LLC

[1] https://www.fresnocountyca.gov/Departments/Public-Works-and-Planning/divisions-of-public-works-and-planning/development-services-division/planning-and-land-use/photovoltaic-facilities/Solar-Reclamation-Plans Accessed on April 24, 2025.

5. Describe how the subject property will be reclaimed to its previous agricultural condition (if applicable), specifically:

a. Timeline for completion of reclamation after solar facility lease has terminated (identify phasing if needed);

b. Handling of any hazardous chemicals/materials to be removed;

c. Removal of all equipment, structures, buildings and improvements at and above grade;

d. Removal of any below-grade foundations;

e. Removal of any below-grade infrastructure (cables/lines, etc.) that are no longer deemed necessary by the local public utility company;

f. Detail any grading necessary to return the site to original grade;

g. Type of crops to be planted; and,

h. Irrigation system details to be used (existing wells, pumps, etc. should remain throughout the solar facility use)

Section 3, Decommissioning and Reclamation Procedures (below), provides a discussion of the procedures that will be used to return the Project site back to pre-construction conditions. It should be noted that although the property has been historically used for agricultural production it no longer has rights to water delivery from the Westlands Water District, the present property owner. In consideration of these restrictions, this Reclamation Plan contemplates decommissioning of the Project and stabilization of the site and does not propose additional actions to restore agricultural capacity to the property beyond its present condition.

6. A Site Plan shall be submitted along with the text of the Reclamation Plan showing the location of equipment, structures, above and underground utilities, fencing, buffer area, reclamation phasing, etc.;

Figure 2 – Site Map shows the site plan for the Project.

7. An engineering cost estimate of reclaiming the site to its previous agricultural condition shall be submitted for review and approval;

Information for the engineering cost estimate to implement the Reclamation Plan is provided in **Appendix A**.

8. Financial assurances equal to the cost of reclaiming the land to its previous agricultural condition shall be submitted to ensure the reclamation is performed according to the approved plan. Financial assurances shall be made to the County of Fresno and may take the form of cash, letter of credit, or bond that complies with Section 66499 of the California Government Code, et. seq;

See Section 4 below.

9. Evidence that all the owners of Record have been notified of the proposed Reclamation Plan.

Project site landowners including Westlands Water District, Luna Valley Land Holdings LLC, Pacific Gas and Electric, and RE Tranquillity Landco LLC have been notified of the submission of all documents pertaining to the Conditional Use Permit including this Reclamation Plan. Copies of these notifications have been attached to this Reclamation Plan (**Appendix B**).

3 Decommissioning and Reclamation Procedures

The procedures described for decommissioning and reclamation are designed to promote public health and safety, environmental protection and compliance with applicable regulations. It is assumed that decommissioning will begin approximately 35 years after Project operation is initiated. The Project decommissioning plan may incorporate the sale of some of the solar facility components via the used equipment market and recycling of components. Decommissioning will be conducted in accordance with a Final Reclamation Plan that will be developed in the months prior to decommissioning being initiated. Equipment associated with decommissioning and reclamation will include cranes, excavators, backhoes, flat-bed trucks, low-bed trucks, and water trucks.

This Reclamation Plan assumes that all equipment and facilities within and associated with the Project will be removed.

3.1 Pre-Decommissioning Activities

Pre-decommissioning activities will be conducted to prepare the Project for demolition. This will include assessing the existing site conditions and development of a Final Reclamation Plan and schedule as described above.

Pre-decommissioning activities will include removing hazardous materials from the site including residues that occur in equipment. All operational liquids and chemicals are expected to be removed and disposed of as discussed in Section 3.4. Hazardous material and petroleum containers, pipelines, and other similar structures shall be rinsed clean, when feasible, and the waste liquid collected for off-site disposal.

Locations for decommissioned structures, non-hazardous waste, and debris will be designated on the Final Reclamation Plan to facilitate the decommissioning process and off-site removal.

3.2 Removal of Facilities

Site decommissioning and equipment removal is anticipated to require approximately one year and up to 70 workers. Access roads, fencing, electrical power, and other Project infrastructure may temporarily remain in place for use by the decommissioning and restoration workers until no longer needed. Therefore, these components will be the last to be removed prior to site rehabilitation.

Above- and Below-Ground Facilities

Structures that need to be dismantled during decommissioning include the onsite substations, onsite operations and maintenance area, onsite battery energy storage system, perimeter fence, solar field,

and transformers and inverters. These structures will be dismantled and moved to designated areas for salvage, recycling or disposal at an approved landfill.

Above-ground structures will be removed through mechanical or other approved methods. Below-ground structures will be removed or, upon agency approval, may remain in place to minimize soil disturbance. Below-ground facilities/utilities that potentially may be removed include pipelines, electrical lines and conduits, and concrete slabs.

Stormwater retention basins will be filled and brought to grade level.

Generation-Tie Transmission Lines

If the generation-tie transmission lines will not continue to be utilized for another purpose at the time of Project decommissioning, the lines will be removed. Decommissioning of the generation-tie will consist of removal of all structures associated with the construction of the transmission line(s) to include but not limited to overhead conductors and the removal of poles. All steel will be recycled, and the foundations will be removed to a depth up to 3 feet below the ground surface or as otherwise obligated by any real estate agreements. Aluminum from overhead conductors will be recycled.

Roads

Access and on-site roads will remain in place to accomplish decommissioning at the end of the Project's life and will be one of the last Project components to be removed. Any graveled roads or areas—if not left in place for future uses—will be removed and the material used to fortify existing perimeter roads. The compacted native soil roads in the solar field will not need to be removed but may be deep-chiseled to alleviate soil compaction.

3.3 Debris Management, Disposal, and Recycling

All removed material and demolition debris will be placed in designated locations within the Project. Each stockpile will be transported off-site to either a used equipment market, off-site recycling center, or approved landfill depending on the material type. Debris will be broken down into manageable sizes so that transportation is simplified.

3.4 Hazardous Waste Management

All disposal and transportation of hazardous waste will be conducted under compliance with applicable regulations as required. In areas where no record of hazardous waste exposure occurred, a visual inspection will be conducted. If a concern is identified, further evaluation of the area shall occur and the area or structure will be treated accordingly. A licensed state waste contractor will be used to ensure that all required laws and regulations have been met and to address any remaining requirements needed to successfully close the Project.

3.5 Post-Demolition Site Restoration

After removal of existing structures, the Project area will be restored to topographic conditions similar to pre-construction. The site will be chiseled and disced to loosen compacted soils. A rangeland seed mix of grasses and forage crops will be broadcast on the property to revegetate the site. Revegetation will assist in preventing soil erosion and dust.

4 Project Decommissioning Costs and Bonding

Prior to the issuance of any construction-related permits (e.g., grading permits), the Applicant will provide financial assurance in an amount sufficient to ensure restoration of the Project land to its previous conditions, to the extent feasible, in accordance with the approved Reclamation Plan. Financial assurances shall be made to the County of Fresno and may take the form of cash, parent guaranty, or bond that complies with Section 66499 of the California Government Code, et seq.

The financial assurance instrument will be based on a decommissioning cost estimate provided by the Applicant based on the final, approved design of the Project. At that time, this Reclamation Plan will be updated to include the final site layout and decommissioning cost estimate. The preliminary site layout is shown in **Figure 3** and will be updated with the approved site layout and the cost estimate for reclamation of the Project is included as **Appendix A**.

FIGURES

Clearway Energy
Heartland Solar Project

Figure 1
Regional Vicinity

Fresno County, CA

Proposed Features

- Gen-tie Line
- Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:160,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 1 2 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

\\cess706gisfs1\ces\Projects\IRV\Projects\1038_0075_HeartlandSolar\Layouts\Heartland_WSA.aprx

Clearway Energy
Heartland Solar Project

Figure 2
Site Map

Fresno County, CA

Proposed Features

- Gen-tie Line
- Fencelines
- Tranquillity Switching Station
- Roads
- Inverters
- Trackers
- BESS Area
- O&M Building
- Project Substation
- Project Site

TETRA TECH

NOT FOR CONSTRUCTION

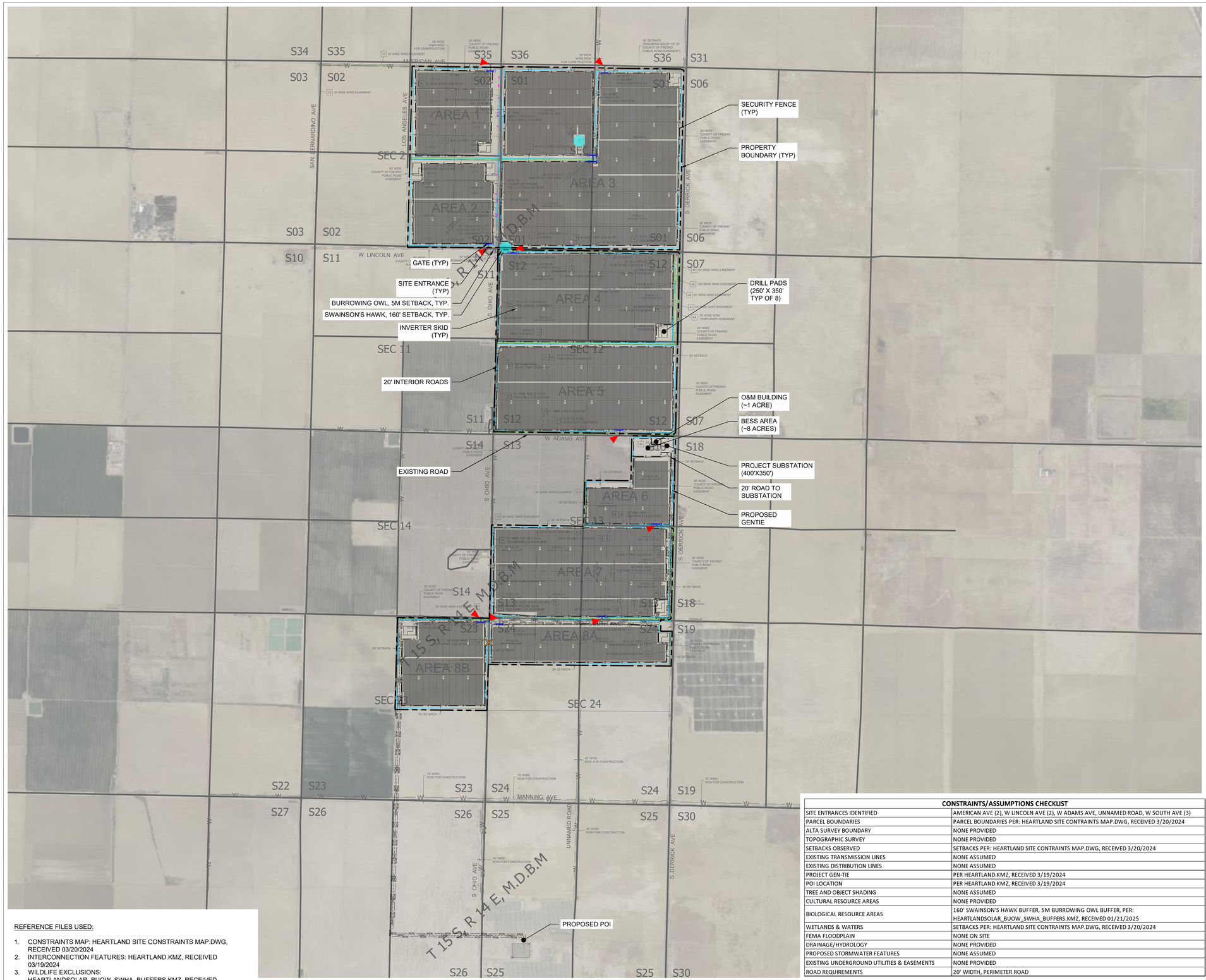
Reference Map

1:35,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 1 2 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

\\cess706gisfs1\ces\Projects\IRV\Projects\1038_0075_HeartlandSolar\Layouts\Heartland_WSA.aprx



SHEET NOTES:

1. LOCATIONS SHOWN ARE FOR GENERAL GUIDANCE ONLY. SLOPES OF THE SITE ARE NOT DEPICTED AND LOCATIONS MUST BE VERIFIED ON SITE BEFORE INSTALLATION.
2. FINAL STRING SIZING TO BE CONFIRMED BY ENGINEER-OF-RECORD.
3. CROSSING LOCATIONS INDICATE APPROXIMATE DC CROSSINGS AT EXISTING FEATURES. MV COLLECTION CROSSINGS ARE TBD AFTER MV COLLECTION LAYOUT. ALL CROSSINGS TO BE FINALIZED BY ENGINEER OF RECORD.

SYSTEM SPECIFICATION TABLE

SYSTEM STC DC RATING (MW)	395.29
SYSTEM AC RATING AT INVERTERS (MVA)	309.88
SYSTEM AC RATING AT POI (MW)	300.00
DC/AC RATIO AT POI	1.32
AVERAGE DC/AC RATIO AT INVERTER	1.28
MODULE MODEL	FS 6+ FS-6485-P-B
MODULE STC DC RATING (W)	485
MODULE COUNT	815028
MODULES PER STRING	6
STRING COUNT	135838
18-STR TRACKERS	6701
14-STR TRACKERS	960
10-STR TRACKERS	178
INVERTER MODEL	TMEIC NINJA
INVERTER RATING (MVA)	4.20
INVERTER RATING (MW @ 0.95 PF & 36.3°C)	3.779
QUANTITY OF INVERTERS	82
QUANTITY OF SKIDS	82
INVERTERS PER SKID	1
TRANSFORMER RATING (MVA)	4.20
QUANTITY OF TRANSFORMERS	82
DC SYSTEM VOLTAGE (V)	1500
INTERCONNECTION VOLTAGE (KV)	230
RACKING SYSTEM	NEXTRACKER 1P
MODULE TILT	+/- 60°
AZIMUTH	180°
GCR	0.31
PITCH / ROW-TO-ROW SPACING (LF)	21.42
CLEARANCE BETWEEN ROWS (LF)	14.78
MAX DESIGN TEMPERATURE SOURCE	ASHRAE 2% DB TEMP MAX
MAX DESIGN TEMPERATURE (°C)	36.3°
MIN DESIGN TEMPERATURE SOURCE	ASHRAE EXTREME ANNUAL MEAN MINIMUM DB
MIN DESIGN TEMP FOR STRING SIZING (°C)	-3.1°
BUILDABLE AREA (ACRES)	2168
FENCED AREA (ACRES)	1994
FENCING LENGTH (L.F.)	127072
ROADS (L.F.)	194111

AREA	SYSTEM STC DC RATING (MW)	RATING AT INVERTERS (MW @ 0.95 PF & 40°C)	MODULE STC DC RATING (W)	INV QTY	DC/AC RATIO AT INVERTER
AREA 1	23.43	18.90	485	5	1.240
AREA 2	23.31	18.90	485	5	1.234
AREA 3	111.33	86.92	485	23	1.281
AREA 4	58.18	45.35	485	12	1.283
AREA 5	57.79	45.35	485	12	1.274
AREA 6	14.81	11.34	485	3	1.306
AREA 7	57.48	45.35	485	12	1.267
AREA 8	48.98	37.79	485	10	1.296

LEGEND

- PROPERTY LINE
- FENCE LINE
- PROPOSED ROAD
- EXISTING ROAD
- OVERHEAD ELECTRICAL
- RIGHT OF WAY (ROW)
- BUILDABLE AREA
- EXCLUSION AREA
- GATE
- SITE ACCESS
- CROSSING LOCATION (SEE NOTE 3)
- BURROWING OWL SETBACK
- SWAINSON'S HAWK SETBACK

CONSTRAINTS/ASSUMPTIONS CHECKLIST	
SITE ENTRANCES IDENTIFIED	AMERICAN AVE (2), W LINCOLN AVE (2), W ADAMS AVE, UNNAMED ROAD, W SOUTH AVE (3)
PARCEL BOUNDARIES	PARCEL BOUNDARIES PER: HEARTLAND SITE CONTRAINTS MAP.DWG, RECEIVED 3/20/2024
ALTA SURVEY BOUNDARY	NONE PROVIDED
TOPOGRAPHIC SURVEY	NONE PROVIDED
SETBACKS OBSERVED	SETBACKS PER: HEARTLAND SITE CONTRAINTS MAP.DWG, RECEIVED 3/20/2024
EXISTING TRANSMISSION LINES	NONE ASSUMED
EXISTING DISTRIBUTION LINES	NONE ASSUMED
PROJECT GEN-TIE	PER HEARTLAND.KMZ, RECEIVED 3/19/2024
POI LOCATION	PER HEARTLAND.KMZ, RECEIVED 3/19/2024
TREE AND OBJECT SHADING	NONE ASSUMED
CULTURAL RESOURCE AREAS	NONE PROVIDED
BIOLOGICAL RESOURCE AREAS	160' SWAINSON'S HAWK BUFFER, 5M BURROWING OWL BUFFER, PER: HEARTLANDSOLAR_BUOW_SWHA_BUFFERS.KMZ, RECEIVED 01/21/2025
WETLANDS & WATERS	SETBACKS PER: HEARTLAND SITE CONTRAINTS MAP.DWG, RECEIVED 3/20/2024
FEMA FLOODPLAIN	NONE ON SITE
DRAINAGE/HYDROLOGY	NONE PROVIDED
PROPOSED STORMWATER FEATURES	NONE ASSUMED
EXISTING UNDERGROUND UTILITIES & EASEMENTS	NONE PROVIDED
ROAD REQUIREMENTS	20' WIDTH, PERIMETER ROAD

REFERENCE FILES USED:

1. CONSTRAINTS MAP: HEARTLAND SITE CONSTRAINTS MAP.DWG, RECEIVED 03/20/2024
2. INTERCONNECTION FEATURES: HEARTLAND.KMZ, RECEIVED 03/19/2024
3. WILDLIFE EXCLUSIONS: HEARTLANDSOLAR_BUOW_SWHA_BUFFERS.KMZ, RECEIVED 01/21/2025

1 - OVERALL SITE LAYOUT

1" = 1300'

0' 650' 1300' 2600'

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Oakland, CA 94612
www.revamp-eng.com

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ENGINEER'S STAMP

PRELIMINARY - NOT FOR CONSTRUCTION

CLIENT

Clearway

PROJECT NAME
HEARTLAND SOLAR

SITE LOCATION
FRESNO COUNTY, CA
36.631799° , -120.389541°

DRAWING ISSUE		
1	03/21/2024	PRELIMINARY
2	10/21/2024	ADD DRILL PADS
3	01/22/2025	WILDLIFE EXCLUSIONS

DRAWN BY: SM CHECKED BY: NN

PROJECT NO.: 24067

DRAWING TITLE
OVERALL SITE LAYOUT

DRAWING NUMBER
E200

APPENDIX A

RECLAMATION COST ESTIMATE

[Final estimate to be provided in final Reclamation Plan, to be approved prior to issuance of construction permits]

Reclamation Item	Total Cost ($)
Equipment & Facilities Mobilization / Demobilization	127,400.00
Project Site Support	611,078.40
Substation Retirement	302,134.37
Transmission Line Retirement	635,436.86
Operations and Maintenance Building Removal	39,455.39
Direct Current Storage Retirement	440,047.97
Solar Array Retirement	10,664,270.44
Inverter / Transformer Removal	34,335.43
Remove Inverter / Transformer Foundations	25,109.35
Underground Cable Removal	94,303.53
Site Restoration – Spot Grade Disturbed Areas	1,282,216.40
Contractor Markups	2,209,647.20
Total	**$16,465,435.34**

APPENDIX B

LANDOWNER NOTIFICATION LETTERS

Docusign Envelope ID: 10F23B53-9DEF-47B5-BB34-249E1B930657

August 5, 2025

RE Tranquillity LandCo LLC
HA Sustainable Infrastructure Capital, Inc.
1 Park Place, Suite 200Annapolis, MD 21401
Attn: Legal Department

Subject: Landowner Notification of Reclamation Plan and Consent to Clearway Energy Group's Land Use Entitlements Submittal(s)

To whom it may concern:

RE Tranquillity LandCo LLC (the "Owner") is the owner of record for the property located in Fresno County, California ("the County"), identified as APN(s) 028-101-82S, formerly 028-101-79S (the "Property"). Clearway Energy Group (or its affiliate) is submitting one or more applications to the County for a conditional use permit and reclamation plan agreement for a 300 MW renewable energy project that includes related gen-tie facilities with respect to the Property. This letter provides the Owner with notice of such submittals, and to subsequent actions thereon by the County.

If you have any questions or concerns, please contact Sarah Linden at Sarah.Linden@clearwayenergy.com.

Sincerely,

Heartland Solar 1, LLC

By: DocuSigned by: John Woody DDD27EDCB3F3406...
John Woody, Vice President

Docusign Envelope ID: 10F23B53-9DEF-47B5-BB34-249E1B930657

August 5, 2025

Pacific Gas and Electric Company
Attn: Electric Grid Interconnection – Contract Management
300 Lakeside Drive
Oakland, CA 94612

Subject: Landowner Notification of Reclamation Plan and Consent to Clearway Energy Group's Land Use Entitlements Submittal(s)

To whom it may concern:

Pacific Gas and Electric (the "Owner") is the owner of record for the property located in Fresno County, California ("the County"), identified as APN(s) 028-101-81S (the "Property"). Clearway Energy Group (or its affiliate) is submitting one or more applications to the County for a conditional use permit and reclamation plan agreement for a 300 MW renewable energy project [that includes related gen-tie facilities] with respect to the Property. This letter provides the Owner with notice of such submittals, and to subsequent actions thereon by the County.

If you have any questions or concerns, please contact Sarah Linden at Sarah.Linden@clearwayenergy.com.

Sincerely,

Heartland Solar 1, LLC

By: DocuSigned by: John Woody DDD27EDCB3F3406...
John Woody

Docusign Envelope ID: 10F23B53-9DEF-47B5-BB34-249E1B930657

August 5, 2025

Westlands Water District
286 W Cromwell Ave
Fresno, CA 93711

Subject: Landowner Notification of Reclamation Plan and Consent to Clearway Energy Group's Land Use Entitlements Submittal(s)

To whom it may concern:

Westlands Water District (the "Owner") is the owner of record for the property located in Fresno County, California ("the County"), identified as APN(s) 028-140-38ST, 028-140-37ST, 028-140-36ST, 028-140-32ST, 028-140-23T, 028-160-22ST, 028-160-20ST, 028-160-19ST, 028-160-17ST, 028-160-16ST, 028-170-18T, 028-170-17T, 028-170-61ST, 028-170-60ST, 028-170-48ST, 028-170-46ST, 028-170-44ST, 028-170-42ST, 028-170-47ST, 028-170-45ST, 028-170-43ST, 028-170-41ST, 028-060-41ST, 028-060-33ST, 028-060-32ST(the "Property"). Clearway Energy Group (or its affiliate) is submitting one or more applications to the County for a conditional use permit and reclamation plan agreement for a 300 MW renewable energy project with respect to the Property. This letter provides the Owner with notice of such submittals, and to subsequent actions thereon by the County.

If you have any questions or concerns, please contact Sarah Linden at Sarah.Linden@clearwayenergy.com.

Sincerely,

Heartland Solar 1, LLC

By: DocuSigned by: John Woody DDD27EDCB3F3406...
John Woody

Docusign Envelope ID: 10F23B53-9DEF-47B5-BB34-249E1B930657

August 5, 2025

Luna Valley Land Holdings LLC
100 California Street Suite 650
San Francisco, CA 94111

Subject: Landowner Notification of Reclamation Plan and Consent to Clearway Energy Group's Land Use Entitlements Submittal(s)

To whom it may concern:

Luna Valley Land Holdings LLC (the "Owner") is the owner of record for the property located in Fresno County, California ("the County"), identified as APN(s) 028-060-77 and 028-100-85 (the "Property"). Clearway Energy Group (or its affiliate) is submitting one or more applications to the County for a conditional use permit and reclamation plan agreement for a 300 MW renewable energy project [that includes related gen-tie facilities] with respect to the Property. This letter provides the Owner with notice of such submittals, and to subsequent actions thereon by the County.

If you have any questions or concerns, please contact Sarah Linden at Sarah.Linden@clearwayenergy.com.

Sincerely,

Heartland Solar 1, LLC

By: DocuSigned by: John Woody DDD27EDCB3F3400...
John Woody

Appendix C
Agricultural Resources

ESA

180 Grand Avenue
Suite 1050
Oakland, CA 94612
510.839.5066 phone
510.839.5825 fax

esassoc.com

technical memorandum

date	July 12, 2022
to	Marissa Parker and David Randall, Fresno County
cc	Elijah Shoemake and Chris Hogan, Plug Power; Louis De Rosa, Candela Renewables; Mark Stout, Stout Power; and James White, Irish Hills
from	Jill Feyk-Miney, ESA
subject	Land Evaluation and Site Assessment (LESA) for the Heartland Hydrogen Project

Introduction and Purpose

The Land Evaluation and Site Assessment (LESA) Model is a point-based approach for rating the relative importance of agricultural land resources based upon specific measurable features. The California LESA Model was developed to provide lead agencies with an optional methodology to ensure that potentially significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process (Public Resources Code Section 21095), including in California Environmental Quality Act (CEQA) reviews.

This LESA report is being prepared as part of environmental review of the Heartland Hydrogen Project and conforms to the LESA Model Instruction Manual (1997; updated in 2011) prepared by the California Department of Conservation (CDOC). The California Agricultural LESA Model evaluates measures of soil resource quality, a given project's size, water resource availability, surrounding agricultural lands, and surrounding protected resource lands. For a given project, the factors are rated, weighted, and combined, resulting in a single numeric score. The project score becomes the basis for making a determination of a project's potential significance (CDOC, 1997).

Project Description and Setting

Project Description

Heartland Hydrogen, LLC and Heartland Solar 1, LLC propose to generate hydrogen fuel from renewable sources including solar photovoltaic (PV) power and treated wastewater. The hydrogen facility, solar facility, and water treatment facility together constitute the Heartland Hydrogen Project (Project). Hydrogen fuel production and solar energy generation would occur on Westlands Water District (WWD)-owned land in western Fresno County, and a tertiary wastewater treatment plant would be constructed in the City of Mendota at the existing Mendota

wastewater treatment plant to provide recycled water needed for the hydrogen facility. The Project would rely on the PV solar cells to convert sunlight into electricity, which would be used to split the recycled water into hydrogen and oxygen (electrolysis). The Project also includes an electrical interconnection service line to the existing Tranquillity Switching Station. This analysis focuses on the Fresno County portion of the Project, as the proposed tertiary wastewater treatment plant would be constructed at the existing Mendota wastewater treatment plant, which does not contain agricultural land resources.

Project Site

The Fresno County portion of the Project (referred to as the "Project site" in this memo) is located in an unincorporated area 10 miles east of Interstate 5. It is located east of Los Angeles Avenue, south of W. American Avenue, west of State Route 33 (SR 33, also called S. Derrick Avenue), north of Manning Avenue, and 1.25 miles north of the Tranquillity Switching Station as illustrated in **Figure 1**. It also is located adjacent to the northern boundary of the proposed Sonrisa Solar facility and across SR 33 from the existing Adams East Solar facility. The Project site is zoned AE-20 (Exclusive Agricultural District, 20-acre minimum parcel size). Although historically used for irrigated farming, irrigated farming no longer occurs on the site due to lack of drainage services, salt accumulation in the soil, and a legal covenant that precludes irrigation. None of the land receives an allocation of surface water from WWD. In the past 15 years, the Project site has been intermittently dry-farmed for grain or forage crops or has lain fallow. Abandoned irrigation and drainage features are present throughout the site but are not in use. When the property is not leased for dry farming, WWD cultivates the property to control weeds and pests.

Surrounding Uses

Existing agricultural uses, including non-irrigated fields owned mostly by the WWD, generally surround the Project site. These properties generally have a land use pattern of dry farming and fallowing rotation that is similar to the Project site. Neighboring agricultural uses include orchards and forage and grain crops. Multiple solar energy facilities are operating or under development in the surrounding area, including the existing Tranquillity and Adams East solar projects; the Luna Valley Solar Project, which the County approved in November 2021; and the proposed Scarlet and Sonrisa solar projects.

California LESA Model

The LESA Model is split into two sections, the Land Evaluation Section and Factors and the Site Assessment Factors. The California LESA Model is weighted so that 50 percent of the total LESA score of a given project is derived from the Land Evaluation factors, and 50 percent from the Site Assessment factors. The factors and resulting Project scores are presented below.

Land Evaluation Factors

The LESA Model includes two land evaluation factors, which are separately rated: the land capability classification (LCC) and the Storie Index rating. This section of the LESA report analyzes these factors in relation to Project-specific information.

Land Capability Classification Rating

The USDA Land Capability Classification (LCC) Rating indicates the suitability of soils for most kinds of crops. Groupings are made according to the limitations of the soils when used to grow crops, and the risk of damage to soils when they are used in agriculture. Soils are rated from Class 1 to Class 8, with soils having the fewest limitations receive the highest rating (Class 1). Specific subclasses are also utilized to further characterize soils.

Capability classes, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

- Class 1 soils have slight limitations that restrict their use.
- Class 2 soils have moderate limitations that restrict the choice of plants or that require moderate conservation practices.
- Class 3 soils have severe limitations that restrict the choice of plants or that require special conservation practices, or both.
- Class 4 soils have very severe limitations that restrict the choice of plants or that require very careful management, or both.
- Class 5 soils are subject to little or no erosion but have other limitations, impractical to remove, that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.
- Class 6 soils have severe limitations that make them generally unsuitable for cultivation and that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.
- Class 7 soils have very severe limitations that make them unsuitable for cultivation and that restrict their use mainly to grazing, forestland, or wildlife habitat.
- Class 8 soils and miscellaneous areas have limitations that preclude commercial plant production and that restrict their use to recreational purposes, wildlife habitat, watershed, or esthetic purposes.

Capability subclasses are soil groups within one class. They are designated by adding a small letter, *e*, *w*, *s*, or *c*, to the class numeral, for example, 2e. The letter *e* shows that the main hazard is the risk of erosion unless close-growing plant cover is maintained; *w* shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); *s* shows that the soil is limited mainly because it is shallow, droughty, or stony; and *c*, used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry (NRCS, 2022).

Table 1 summarizes the numeric conversions of the LCC units in the context of the LESA Model. The Project's LCC and LCC point ratings are presented in Table 3 below.

TABLE 1
NUMERIC CONVERSION OF LAND CAPABILITY CLASSIFICATION UNITS

LCC	LCC Point Rating
1	100
2e	90
2s,w	80
3e	70
3s,w	60
4e	50
4s,w	40
5	30
6	20
7	10
8	0

NOTES:
LCC= land capability classification
SOURCE: CDOC, 1997

Storie Index Rating

The Storie Index Rating provides a numeric grade (based on a 100-point scale) of the relative degree of suitability or value of a given soil for intensive agriculture. The rating is based exclusively on soil's inherent characteristics and qualities, including its profile characteristics, texture of the surface layer, slope, and other factors including drainage, microrelief, fertility, acidity, erosion, and salt content. For simplification, Storie Index ratings have been combined into six grade classes as follows: Grade 1 (excellent), 100 to 80; grade 2 (good), 79 to 60; grade 3 (fair), 59 to 40; grade 4 (poor), 39 to 20; grade 5 (very poor), 19 to 10; and grade 6 (nonagricultural), less than 10 (NRCS, 2022). The Project's site soil types and Storie Index are listed in **Table 2**.

TABLE 2
STORIE INDEX RATING AND NRCS FARMLAND CLASSIFICATION OF THE SOILS ON THE PROJECT SITE

Soil Type on Project Site	Storie Index [a]	Storie Index Grading Class	NRCS Farmland Classification
Tranquillity clay, saline-sodic, wet, 0 to 1 percent slopes	21	Grade 4 – Poor	Farmland of Statewide Importance
Ciervo clay, saline-sodic, wet, 0 to 1 percent slopes	30	Grade 4 – Poor	Farmland of Statewide Importance
Posochanet clay loam, saline-sodic, wet, 0 to 1 percent slopes	73	Grade 2 – Good	Farmland of Statewide Importance
Cerini sandy loam, 0 to 2 percent slopes, MLRA 17	88	Grade 1 – Excellent	Prime Farmland, if irrigated
Calflax clay loam, saline-sodic, wet, 0 to 1 percent slopes, MLRA 17	65	Grade 2 – Good	Farmland of Statewide Importance

NOTES:
[a] The Storie Index information was determined from the current soil survey information available at the U.S. Department of Agriculture Natural Resources Conservation Service website: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.

SOURCE: NRCS, 2022

Land Evaluation Worksheet

Table 3 presents the Land Evaluation Worksheet for the Project site and the resulting LCC and Storie Index ratings.

TABLE 3
LAND EVALUATION WORKSHEET – LCC AND STORIE INDEX RATING SCORES

A	B	C	D	E	F	G	H
Soil Map Unit	**Project Acres**	**Proportion of Project Area**	**LCC [a]**	**LCC Rating**	**LCC Score**	**Storie Index[a]**	**Storie Index Score**
Tranquillity clay, saline-sodic, wet, 0 to 1 percent slopes	1,232	0.52	7w	10	5.2	21	10.9
Ciervo clay, saline-sodic, wet, 0 to 1 percent slopes	222	0.09	7s	10	0.9	30	2.7
Posochanet clay loam, saline-sodic, wet, 0 to 1 percent slopes	96	0.04	7s	10	0.4	73	2.9
Cerini sandy loam, 0 to 2 percent slopes, MLRA 17	24	0.01	7c	10	0.1	88	0.9
Calflax clay loam, saline-sodic, wet, 0 to 1 percent slopes, MLRA 17	767	0.33	7s	10	3.3	65	21.5
Totals	**2,341**	**1.0**		**LCC Total**	**10.0**	**Storie Index Total**	**38.9**

NOTES:

[a] The LCC and Storie Index information was determined from the current soil survey information available at the U.S. Department of Agriculture Natural Resources Conservation Service website: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.

SOURCE: CDOC, 1997; ESA, 2022

In application of the land evaluation tool of the LESA Model, the total LCC score equates to 10.0 and the total Storie Index score equates to 38.9. The LCC ratings for all Project soils are 7w, 7s, or 7c, all of which would be rated 3w or 3s (or 1 for 7c) if irrigated; however, the Project site has been taken out of irrigated production as a result of a legal settlement with the U.S. Bureau of Reclamation and is subject to a non-irrigation covenant.

Site Assessment Factors

This second part of the LESA Model focuses on analysis of the Project site with respect to the following four factors, each of which is rated individually: (1) project size rating; (2) water resources availability rating; (3) surrounding agricultural land rating; and (4) surrounding protected parcel land rating.

Project Size Rating

The Project Size rating relies upon acreage figures that were tabulated under the LCC Rating in Table 4. The Project Size rating is based upon identifying acreage figures for three separate groupings of soil classes within the Project site, and then determining which grouping generates the highest Project Size Score (see **Table 4**). A higher score generally indicates better suitability for commercial agricultural operations.

TABLE 4
PROJECT SIZE SCORING

LCC Class I or II Soils		LCC Class III Soils		LCC Class IV or lower	
Acres	**Score**	**Acres**	**Score**	**Acres**	**Score**
80 or above	100	160 or above	100	320 or above	100
60-79	90	120-159	90	240-319	80
40-59	80	80-119	80	160-239	60
20-39	50	60-79	70	100-159	40
10-19	30	40-59	60	40-99	20
Fewer than 10	0	20-39	30	Fewer than 40	0
		10-19	10		
		Fewer than 10	0		

NOTES:
LCC= land capability classification
SOURCE: CDOC, 1997

The Project Size rating recognizes the role that farm size plays in the viability of commercial agricultural operations. In general, larger farming operations can provide greater flexibility in farm management and marketing decisions. Larger operations tend to have greater impacts upon the local economy through direct employment. In terms of agricultural productivity, the size of the farming operation can be considered not just from its total acreage, but the acreage of different quality lands that comprise the operation. Lands with higher quality soils lend themselves to greater diversity in crop selection and the potential for greater economic return per acre unit. The Project Size rating is based upon identifying acreage figures for three separate groupings of soil classes within a project site, and then determining which grouping generates the highest Project Size Score. The Project Site Scoring for the Project is presented in **Table 5**. The highest score is 100.

TABLE 5
PROJECT SIZE SCORING SUMMARY

Soil Type on Project Site	Project Acres	LCC Class [a]	Score
Tranquillity clay, saline-sodic, wet, 0 to 1 percent slopes	1,232.2	7w	100
Ciervo clay, saline-sodic, wet, 0 to 1 percent slopes	222.2	7s	60
Posochanet clay loam, saline-sodic, wet, 0 to 1 percent slopes	96.1	7s	20
Cerini sandy loam, 0 to 2 percent slopes, MLRA 17	24.3	7c	0
Calflax clay loam, saline-sodic, wet, 0 to 1 percent slopes, MLRA 17	766.9	7s	100

NOTES:
[a] The LCC information was determined from the current soil survey information available at the U.S. Department of Agriculture Natural Resources Conservation Service website: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.

SOURCE: NRCS, 2022; ESA, 2022

Water Resources Availability Rating

The Water Resources Availability Rating is based upon identifying the various water sources that may supply a given property, and then determining whether different restrictions in supply are likely to take place in years that are characterized as being periods of drought and non-drought. The Water Resources Availability Score is scored on a scale of 1–100. **Table 6** presents the Project's water resources availability and scoring.

Although historically used for irrigated farming, irrigated farming now is precluded on the Project site. As such, none of the land receives an allocation of surface water from WWD. In the past 15 years, the Project site has been intermittently dry-farmed for grain or forage crops or has lain fallow. Because the Project site cannot legally be irrigated, the highest possible score is 25.

TABLE 6
WATER RESOURCES AVAILABILITY

A	B	C	D	E
Project Portion	**Water Source**	**Proportion of Project Area**	**Water Availability Score [a]**	**Weighted Availability Score (C x D)**
All	Not irrigated	1.0	25	25

NOTES:

[a] The maximum score where irrigated production is not feasible was used.

SOURCE: CDOC, 1997; ESA, 2022

Surrounding Agricultural Land Rating and Surrounding Protected Parcel Land Rating

Determination of the surrounding agricultural land use rating is based upon the identification of a project's "Zone of Influence" (ZOI), which is defined as that land near a given project, both directly adjoining and within a defined distance away, that is likely to influence, and be influenced by, the agricultural land use of the subject project site. The LESA Model rates the potential significance of the conversion of an agricultural parcel that has a large proportion of surrounding land in agricultural production more highly than one that has a relatively small percentage of surrounding land in agricultural production.

The Surrounding Protected Resource Land Rating is essentially an extension of the Surrounding Agricultural Land Rating and is scored in a similar manner. Protected resource lands are those lands with long term use restrictions that are compatible with or supportive of agricultural uses of land including: publicly owned lands maintained as park, forest, or watershed resources; Williamson Act contracted lands; and lands with natural resource easements that restrict the conversion of such land to urban or industrial uses.

The ZOI is the amount of surrounding lands up to a minimum of 0.25-mile from the Project site boundary. **Table 7** presents the Surrounding Agricultural Land and Surrounding Protected Parcel Land scoring for the Project, and the ZOI for the Project is illustrated in Figure 1.

TABLE 7
SURROUNDING AGRICULTURAL LAND AND SURROUNDING PROTECTED PARCEL LAND

A	B	C	D	E	F	G
Total Acres	**Acres in Agriculture**	**Acres of Protected Resource Land**	**Percent in Agriculture (A/B)**	**Percent Protected Land (A/C)**	**Surrounding Agriculture Land Score**	**Surrounding Protected Resource Land Score**
5,552	4,701	1,163	85%	21%	90	0

SOURCE: CDOC, 1997; Fresno County, 2021; ESA, 2022

Final LESA Scoring

The California LESA Model is weighted so that 50 percent of the total LESA score of a given project is derived from the Land Evaluation factors, and 50 percent from the Site Assessment factors. **Table 8** provides the calculation of a final LESA score of 44.53 for the Project.

TABLE 8
FINAL LESA SCORE SHEET

	Factor Scores	Factor Weight	Weighted Factor Scores
Land Evaluation Factors			
Land Capability Classification	10.0	0.25	2.50
Storie Index	38.9	0.25	9.73
Land Evaluation Subtotal	--	0.50	12.23
Site Assessment Factors			
Project Size	100	0.15	15.00
Water Resource Availability	25	0.15	3.80
Surrounding Agricultural Land	90	0.15	13.50
Protected Resource Land	0	0.05	0
Site Assessment Subtotal	--	0.50	32.30
		Final LESA Score	**44.53**

Results and Conclusion

The LESA Scoring Model Thresholds determine the significance of a project based on the total LESA score and scoring decision criteria shown in **Table 9**.

TABLE 9
LESA MODEL SIGNIFICANCE DETERMINATION

Total LESA Score	Scoring Decision
0-39 Points	Not Considered Significant
40-59 Points	Considered Significant only if LE and SA subscores are each greater than or equal to 20 points
60-70 Points	Considered Significant unless either LE or SA subscore is less than 20 points
80-100 Points	Considered Significant

NOTES:
LE= Land Evaluation; SA=Site Assessment
SOURCE: CDOC, 1997

The Project's Site Assessment score exceeds 20 points; however, its Land Evaluation score is below the 20-point threshold. Therefore, based on LESA model results, the Project would cause a less-than-significant impact on agricultural resources.

References

California Department of Conservation (CDOC), 1997. *California Agricultural Land Evaluation and Site Assessment Instruction Manual*. Available at: https://www.conservation.ca.gov/dlrp/Pages/qh_lesa.aspx. Accessed June 2022.

California Department of Water Resources (DWR), 2022. DWR Land Use Viewer, Statewide Crop Mapping 2016. Available at: https://gis.water.ca.gov/app/CADWRLandUseViewer/?page=home. Accessed June 2022.

Fresno County. 2021. Parcel Map Lookup, Assessor's Map Page Lookup Roll Year 2021. Available at: https://www.co.fresno.ca.us/departments/assessor/mapping/parcel-map-lookup. Accessed June 2022.

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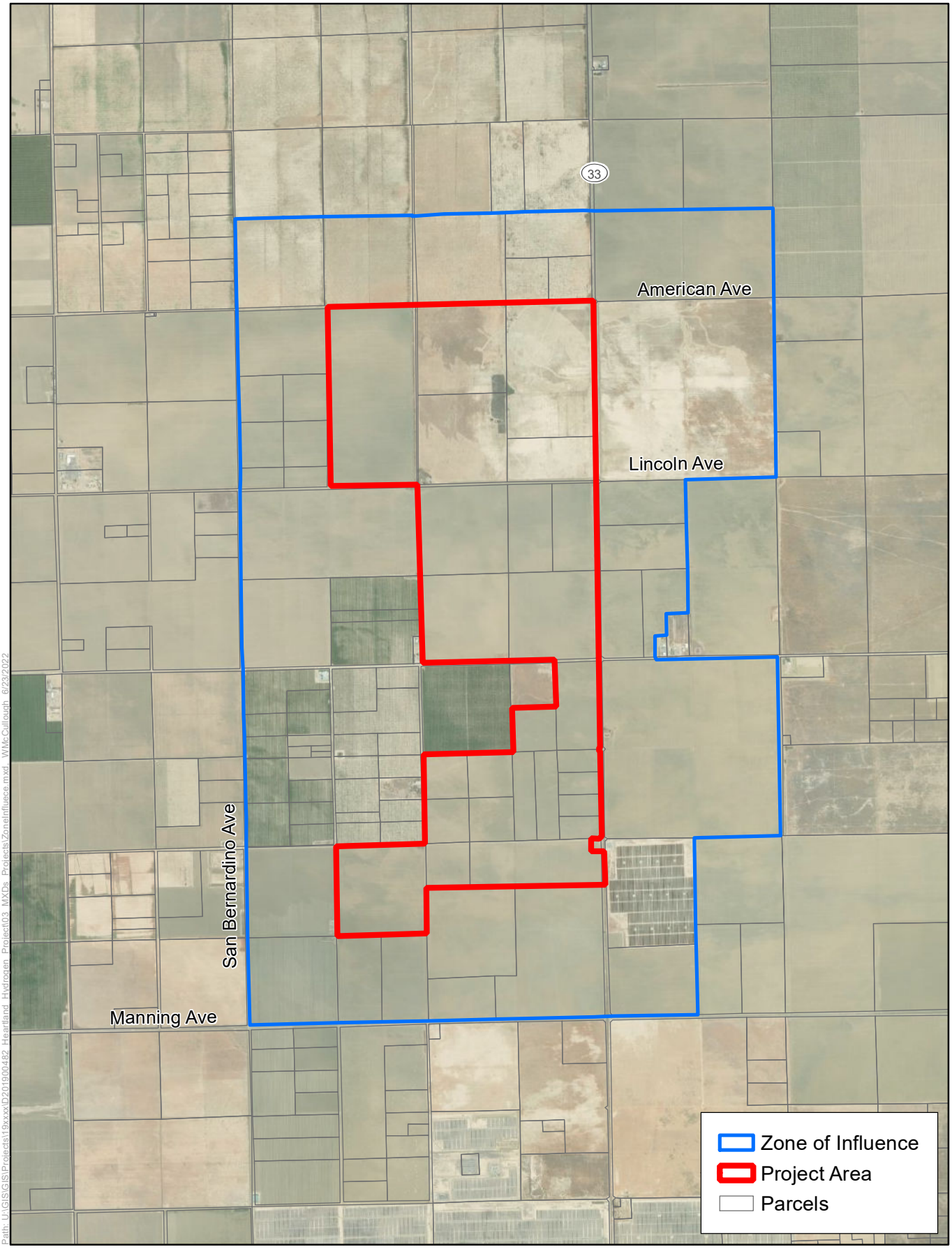

Heartland Hydrogen Project. 201900482

Figure 1

Project Site and Zone of Influence Map

Appendix D
Air Quality and Greenhouse Gas Emissions

D1 Air Quality and Greenhouse Gas Emissions Technical Report

D2 BESS Charging Memorandum

D1 Air Quality and Greenhouse Gas Emissions Technical Report

Air Quality and Greenhouse Gas Emissions Technical Report

Heartland Solar Project, Fresno County, California

JUNE 2025

Prepared for:

HEARTLAND SOLAR 1, LLC
5780 Fleet Street, Suite 130
Carlsbad, CA 92008

Prepared by:

DUDEK
1701 Westwind Drive, Suite 227
Bakersfield, California 93301
Contact: Adam Poll

Printed on 30% post-consumer recycled material.

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
µg/m^3	micrograms per cubic meter
AB	Assembly Bill
ADMRT	Air Dispersion and Risk Tool
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
amsl	above mean sea level
AQMP	Air Quality Management Plan
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California's Green Building Standards
CALINE4	California LINE Source Dispersion Model
CalRecycle	California Department of Resources Recycling and Recovery
CAP	climate action plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAT	Climate Action Team
CDPH	California Department of Public Health
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CH_4	methane
C/M1	commercial manufacturing
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO_2	carbon dioxide
CPUC	California Public Utilities Commission
DPM	diesel particulate matter
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EV	electric vehicle
GHG	greenhouse gas
GWP	global warming potential
H_2S	hydrogen sulfide
HAP	hazardous air pollutant
HARP2	Hotspots Analysis and Reporting Program Version 2
HFC	hydrofluorocarbon
HRA	health risk assessment
HVAC	heating, ventilation, and air conditioning
I	Interstate
IPCC	Intergovernmental Panel on Climate Change
ITE	Institute of Transportation Engineers

Acronym/Abbreviation	Definition
LCFS	Low Carbon Fuel Standard
LED	light emitting diode
LOS	level of service
LST	localized significance thresholds
MM	Mitigation Measure
MMT	million metric ton
MT CO_2e	metric tons of CO_2 equivalent
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NF_3	nitrogen trifluoride
NHTSA	National Highway Traffic Safety Administration
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
O_3	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PDF	project design feature
PF	public facilities
PFC	perfluorocarbon
PG&E	Pacific Gas and Electric
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppb	parts per billion
ppm	parts per million
PV	photovoltaic
RCP	Regional Comprehensive Plan
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SF_6	sulfur hexafluoride
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLCP	short-lived climate pollutant
SO_2	sulfur dioxide
SO_4	sulfates
SO_x	sulfur oxides
SRA	source-receptor area
TAC	toxic air contaminants
TIA	Transportation Impact Analysis

Acronym/Abbreviation	Definition
TRU	transport refrigeration unit
UNFCCC	United Nations Framework Convention on Climate Change
USGS	U.S. Geological Survey
VOC	volatile organic compound
ZNE	zero net energy

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Executive Summary

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed Heartland Solar Project (project). This assessment utilizes the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.).

Project and Approach Overview

Heartland Solar 1, LLC, a wholly-owned indirect subsidiary of Clearway Energy Group LLC, proposes to construct, operate, maintain, and decommission the *Heartland Solar Project*, which consists of renewable photovoltaic (PV) solar energy generation and energy storage system facilities. Proposed facilities would generate approximately 300 megawatts (MW) alternating current (AC) of solar PV energy and have capacity to store approximately 300 MW of energy on approximately 2,362 acres of private land in western Fresno County. These facilities would interconnect to the regional electrical grid via an electrical generation-tie (gen-tie) line between the solar facility and the existing Tranquillity Switching Station, which is located approximately 1.25 miles south of the solar and energy storage facility site. The Tranquillity Switching Station is owned and operated by the Pacific Gas and Electric Company (PG&E), which is subject to the jurisdiction and oversight of the California Public Utilities Commission (CPUC). PG&E also would conduct other necessary infrastructure work to support interconnection of the Heartland Solar Project. Infrastructure and other improvements to be constructed, operated, and maintained by PG&E to support the Heartland Solar Project are referred to as the *PG&E Components*. The Heartland Solar Project and the PG&E Components collectively are referred to in this document as the *Project*.

The project site is located within the San Joaquin Valley Air Basin (SJVAB) and is under the jurisdiction of Fresno County and the San Joaquin Valley Air Pollution Control District (SJVAPCD). The SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI) was followed as applicable to the project. Construction and operational criteria air pollutant and GHG emissions were estimated using a spreadsheet-based model and the California Emissions Estimator Model (CalEEMod) Version 2022.1.1.29.

Air Quality

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead. Pollutants that are evaluated include reactive organic gases (ROGs), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM_{10}, and $PM_{2.5}$. ROGs and NO_x are important because they are precursors to O_3.

Conflict with or Obstruct Applicable Air Quality Plan

A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. The SJVAPCD has prepared plans to attain federal and state O_3 and particulate matter ambient air quality standards as required under the federal and California Clean Air Act. The SJVAPCD has established thresholds of significance for criteria pollutant emissions, and projects with emissions below the

thresholds of significance for criteria pollutants that would be determined to "not conflict or obstruct implementation of the District's air quality plan" (SJVAPCD 2015a). As determined in the assessment of project-generated construction and operational emissions, the project would result in emissions that would not exceed SJVAPCD thresholds or result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations. The ambient air quality assessment showed the project did not exceed applicable air quality standards. Therefore, the project would not conflict with or delay the implementation of the SJVAPCD attainment plans and would result in a **less than significant** impact.

Cumulative Impacts

The potential for the project to result in a cumulatively considerable impact, per the SJVAPCD guidance and thresholds, is based on the project's impact compared to the SJVAPCD significance criteria. The annual construction emissions would not exceed the SJVAPCD significance thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. The project's construction and operational emissions would be less than the SJVAPCD localized thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. Therefore, the project construction and operational impacts would be **less than significant**.

Exposure of Sensitive Receptors

Carbon Monoxide Hotspot

Operation of the project would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. As neither the 1-hour nor the 8-hour CO California Ambient Air Quality Standards (CAAQS) would be equaled or exceeded at any of the studied intersections, potential CO hotspot impacts would be **less than significant**.

Valley Fever

Coccidioidomycosis, more commonly known as Valley Fever, is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. The project would be required to comply with Rule 8021, Section 6.3, which would require the project to develop, prepare, submit, obtain approval of, and implement a dust control plan. Compliance with the required dust control plan would reduce fugitive dust impacts to less than significant for project construction, which would also minimize the release of the *Coccidioides immitis* fungus from construction activities. In addition, the project would implement various dust control strategies and provide Valley Fever awareness and training to all project construction employees as included in applicant proposed measure **PDF-AQ-1**. Therefore, the project would have a **less than significant** impact with respect to valley fever exposure for sensitive receptors.

Toxic Air Contaminants

Project construction activities would produce diesel particulate matter (DPM) due to combustion equipment such as loaders and backhoes, and haul truck trips. The health risk assessment showed the project would not exceed the SJVAPCD significance thresholds during construction. Operation of the project would not result in TAC emissions. Thus, sensitive receptor exposure to TACs associated with the project would be **less than significant**.

Other Emissions (Odors)

The analysis of the project's potential to result in other emissions is focused on potential odor impacts. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Impacts associated with odors during construction would be less than significant. The project would not include land-use types that would generate odors during operation. Therefore, project construction and operations would result in odor impacts that are **less than significant**.

Greenhouse Gas Emissions

Global climate change is primarily considered a cumulative impact, but must also be evaluated on a project-level under CEQA. A project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHG emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). GHG emissions are measured in metric tons of CO_2 equivalent (MT CO_2e), which account for weighted global warming potential (GWP) factors for CH_4 and N_2O.

Project-Generated Construction and Operational Greenhouse Gas Emissions and Consistency with Applicable Greenhouse Gas Reduction Plans

Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The estimated total GHG emissions during construction would be approximately 6,551 MT CO_2e. Estimated project-generated construction emissions amortized over 30 years would be approximately 218 MT CO_2e per year.

Operation of the project would generate GHG emissions through motor vehicle and delivery truck trips to and from the project site; landscape maintenance equipment operation; solid waste disposal; water; and on-site septic system. Estimated annual project-generated operational emissions plus amortized project construction emissions would be approximately 1,513 MT CO_2e per year. When accounting for offsetting of the use of fossil fuels for electricity generation for backup power, the Proposed project would avoid a total of 276,717 MT CO_2e from 2028 through 2044, or a net 231,327 MT CO_2e when accounting for the project's emissions.

Development of the project site would be consistent with the County's General Plan, support the Fresno Council of Governments (FCOG) 2022 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), and demonstrate consistency with the Scoping Plan, which all promote economic growth while achieving greater energy efficiency. The project would be consistent with FCOG's 2022 RTP/SCS, Senate Bill 32, and Executive Order S-3-05. The project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the project's impacts with respect to GHG emissions would be **less than significant**.

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1 Introduction

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed Heartland Solar Project (project). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.), and is based on the emissions-based significance thresholds recommended by Fresno County, the San Joaquin Valley Air Pollution Control District (SJVAPCD), and other applicable thresholds of significance.

This introductory section provides a description of the project and the project location. Chapter 2, Air Quality, describes the air quality–related environmental setting, regulatory setting, existing air quality conditions, and thresholds of significance and analysis methodology, and presents an air quality impact analysis per Appendix G of the CEQA Guidelines. Chapter 3, Greenhouse Gas Emissions, follows the same format as Chapter 2 and similarly describes the GHG emissions–related environmental setting, regulatory setting, existing climate changes conditions, and thresholds of significance and analysis methodology, and presents a GHG emissions impact analysis per Appendix G of the CEQA Guidelines. Chapter 4, References Cited, includes a list of the references cited. Chapter 5, List of Preparers, includes a list of those who prepared this technical report.

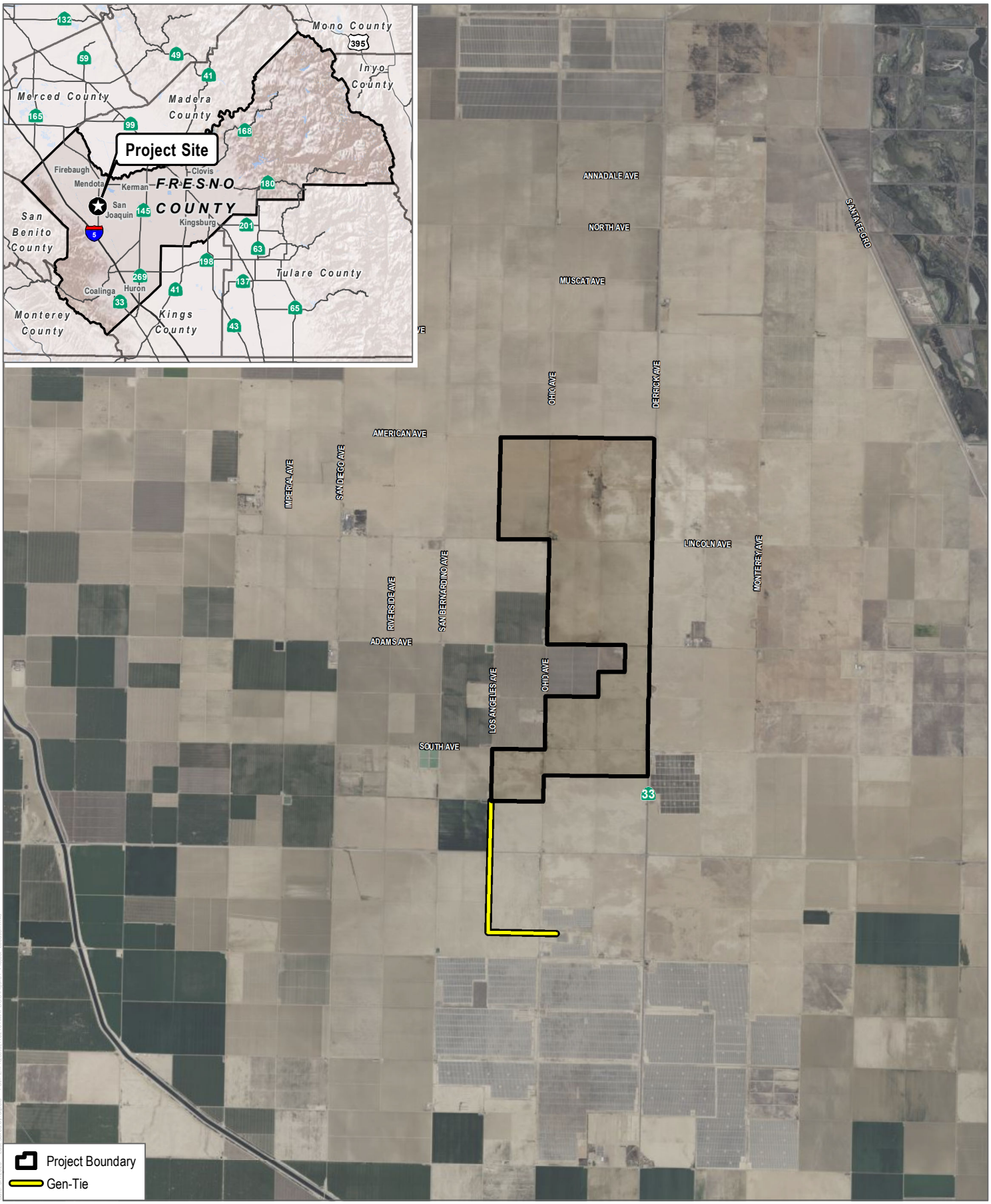
1.2 Regional and Local Setting

The Project site is located in the San Joaquin Valley, approximately 6.5 miles south of the City of Mendota, and immediately west of State Route 33 (SR-33), in unincorporated Fresno County. Specifically, the Project site is bounded by West American Avenue to the north and SR-33 to the east. The Project borders Los Angeles Avenue on the west and is one-half mile north of Manning Avenue to the south. The proposed Project site is zoned AE-20 (Exclusive Agricultural District, 20-acre minimum parcel size) and has historically been used for farming. As described in detail below, the land has been retired from irrigated agriculture due to lack of drainage services and salt accumulation in the soil, and is subject to a legal covenant that precludes irrigation. Over the last 15 years, the Project site has been intermittently dry-farmed for grain or forage crops (such as oats, wheat, and grain hay) or has lain fallow. Abandoned irrigation and drainage features are present throughout the site, including piping. The Project location is shown in Figure 1.

1.3 Project Description

Heartland Solar 1, LLC, a wholly-owned indirect subsidiary of Clearway Energy Group LLC, proposes to construct, operate, maintain, and decommission the *Heartland Solar Project*, which consists of renewable photovoltaic (PV) solar energy generation and energy storage system facilities. Proposed facilities would generate approximately 300 megawatts (MW) alternating current (AC) of solar PV energy and have capacity to store approximately 300 MW of energy on approximately 2,362 acres of private land in western Fresno County. These facilities would interconnect to the regional electrical grid via an electrical generation-tie (gen-tie) line between the solar facility and the existing Tranquillity Switching Station, which is located approximately 1.25 miles south of the solar and energy storage facility site. The Tranquillity Switching Station is owned and operated by the Pacific Gas and Electric Company (PG&E), which is subject to the jurisdiction and oversight of the California Public Utilities Commission (CPUC). PG&E

also would conduct other necessary infrastructure work to support interconnection of the Heartland Solar Project. Infrastructure and other improvements to be constructed, operated, and maintained by PG&E to support the Heartland Solar Project are referred to as the *PG&E Components*. The Heartland Solar Project and the PG&E Components collectively are referred to in this document as the *Project*.



SOURCE: Fresno County; Bing Maps

DUDEK

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FIGURE 1

Project Location

Heartland Solar Project

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2 Air Quality

2.1 Environmental Setting

As stated previously, the project site is located within the SJVAB.

2.1.1 Meteorological and Topographical Conditions

The primary factors that determine air quality are the locations of air pollutant sources and the amounts of pollutants emitted. Meteorological and topographical conditions, however, also are important. Factors such as wind speed and direction, air temperature gradients and sunlight, and precipitation and humidity interact with physical landscape features to determine the movement and dispersal of criteria air pollutants. The analysis was prepared in accordance with the SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI). These factors are described below.

Topography

The project lies within the SJVAB, which consists of eight counties and is spread across 25,000 square miles of Central California. The SJVAB is bordered on the east by the Sierra Nevada (8,000 to 14,491 feet in elevation); on the west by the Coast Ranges (averaging 3,000 feet in elevation); and to the south by the Tehachapi Mountains (6,000 to 7,981 feet in elevation). The San Joaquin Valley comprises the southern half of California's Central Valley and is approximately 250 miles long and averages 35 miles wide, with a slight downward elevation gradient from Bakersfield in the southeast end (elevation 408 feet) to sea level at the northwest end where the San Joaquin Valley opens to the San Francisco Bay at the Carquinez Strait. At its northern end is the Sacramento Valley, which comprises the northern half of California's Central Valley. The region's topographic features restrict air movement through and out of the SJVAB. As a result, the SJVAB is highly susceptible to pollutant accumulation over time.

Climate

The San Joaquin Valley is in a Mediterranean Climate Zone, influenced by a subtropical high-pressure cell most of the year and characterized by warm, dry summers and cooler winters. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summertime maximum temperatures in the San Joaquin Valley often exceed 100°F.

The vertical dispersion of air pollutants in the San Joaquin Valley can be limited by the presence of persistent temperature inversions. Air temperatures usually decrease with an increase in altitude. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. A temperature inversion can act like a lid, restricting vertical mixing of air above and below an inversion because of differences in air density and thereby trapping air pollutants below the inversion. The subtropical high-pressure cell is strongest during spring, summer and fall and produces subsiding air, which can result in temperature inversions. Most of the surrounding mountains are above the normal height of summer inversions (1,500–3,000 feet). Wintertime high pressure events can often last many weeks with surface temperatures often lowering into the 30s°F. During these events, fog can be present and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet.

Wind Patterns

Wind speed and direction play an important role in dispersion and transport of air pollutants. Winds in the San Joaquin Valley most frequently blow from the northwesterly direction, especially in the summer. The region's topographic features restrict air movement and channel the air mass towards the southeastern end of the San Joaquin Valley. Marine air can flow into the SJVAB from the Sacramento–San Joaquin River Delta and over Altamont Pass and Pacheco Pass, where it can flow through the San Joaquin Valley, over the Tehachapi Pass, into the Mojave Desert Air Basin (MDAB). The Coastal Range and the Sierra Nevada are barriers to air movement to the west and east, respectively. A secondary but significant summer wind pattern is from the southeasterly direction and can be associated with nighttime drainage winds, prefrontal conditions and summer monsoons. During winter, winds can be very weak, which minimizes the transport of pollutants and results in stagnation events.

Two significant diurnal wind cycles that occur frequently in the San Joaquin Valley are the sea breeze and mountain-valley upslope and drainage flows. The sea breeze can accentuate the northwest wind flow, especially on summer afternoons. Nighttime drainage flows can accentuate the southeast movement of air down the San Joaquin Valley. In the mountains during periods of weak synoptic scale winds, winds tend to be upslope during the day and downslope at night. Nighttime and drainage flows are pronounced during the winter when flow from the easterly direction is enhanced by nighttime cooling in the Sierra Nevada. Eddies can form in the valley wind flow and can re-circulate a polluted air mass for an extended period.

Temperature, Sunlight and Ozone Production

Solar radiation and temperature are particularly important in the chemistry of O_3 formation. The SJVAB averages over 260 sunny days per year. Photochemical air pollution (primarily O_3) results from the atmospheric ROGs and NO_2 under the influence of sunlight. O_3 concentrations are very dependent on the amount of solar radiation, especially during late spring, summer and early fall. O_3 levels typically peak in the afternoon. After the sun goes down, the chemical reaction between nitrous oxide and O_3 begins to dominate. This reaction tends to reduce O_3 concentrations in the metropolitan areas through the early morning hours. At sunrise, NO_x tends to peak, partly due to low levels of O_3 at this time and also due to the morning commuter vehicle emissions of NO_x.

Reaction rates generally increase with temperature, which results in greater O_3 production at higher temperatures. However, extremely hot temperatures can "lift" or "break" the inversion layer. Typically, if the inversion layer remains intact, O_3 levels peak in the late afternoon. If the inversion layer breaks and the resultant afternoon winds occur, O_3 levels peak in the early afternoon and decrease in the late afternoon as the contaminants are dispersed or transported out of the SJVAB. O_3 levels are low during winter periods when there is much less sunlight to drive the photochemical reaction.

Precipitation, Humidity, and Fog

Precipitation and fog can result in the reduction or increase in some pollutant concentrations. For instance, O_3 needs sunlight for its formation, and clouds and fog can block the required solar radiation. In addition, wet fogs can cleanse the air during winter as moisture collects on particles and deposits them on the ground. Fog with less moisture content, however, can contribute to the formation of secondary ammonium nitrate particulate matter.

The winds and unstable air conditions experienced during the passage of winter storms result in periods of low pollutant concentrations. Between winter storms, high pressure and light winds allow cold, moist air to pool on the

San Joaquin Valley floor, resulting in strong low-level temperature inversions and very stable air conditions, which can lead to Tule fog. Wintertime conditions favorable to fog formation are also conditions favorable to high concentrations of particulate matter.

Urban Heat Island Effect

The "urban heat island" refers to the effect of urbanized areas on surface and air temperature compared to their rural surroundings. Buildings, roads, and other "hardscape" create an island of higher temperatures within the regional landscape. As described by the EPA, "urban heat islands are caused by development and the changes in radiative and thermal properties of urban infrastructure as well as the impacts buildings can have on the local microclimate—for example tall buildings can slow the rate at which cities cool off at night. Heat islands are influenced by a city's geographic location and by local weather patterns, and their intensity changes on a daily and seasonal basis." (EPA 2008). The term is generally used to refer to community-wide effects, particularly for large metropolitan cities. The potential adverse effects of the urban heat island effect include increased energy consumption, elevated emissions of air pollutants and GHGs, compromised human health and comfort, and impaired water quality. Increased temperatures due to the urban heat island effect may also lead to increased energy consumption, which has implications for air quality and GHG emissions. In addition to energy-related increases in air emissions, elevated air temperatures increase the rate of ground-level O_3 formation. Communities have adopted various strategies to deal with these environmental impacts, such as increasing vegetation and using more energy-efficient building materials. These strategies are often part of more general energy savings or "sustainability" practices and are not identified as "urban heat island effect" mitigation, but nevertheless they provide the benefits of reducing surface and atmospheric heat islands.

2.1.2 Pollutants and Effects

2.1.2.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), PM_{10}, $PM_{2.5}$, and lead. Reactive organic gases (ROGs; also referred to as volatile organic compounds [VOCs])[1] and oxides of nitrogen (NO_x) are also important because they are precursors to O_3, These pollutants, as well as toxic air contaminants (TACs), are discussed in the following paragraphs.[2] In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants. A more detailed discussion of health effects of criteria air pollutants is provided in Appendix D.

Ozone. O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, respiratory symptoms, worsening of lung disease leading to premature death, increased

1 The SJVAPCD threshold is set for ROG. However, ROG and VOC are generally considered equivalent for CEQA analyses; as such, ROG and VOC are used interchangeably in this analysis.

2 The descriptions of each of the criteria air pollutants and associated health effects are based on the EPA's Criteria Air Pollutants (EPA 2016a) and the CARB Glossary of Air Pollution Terms (CARB 2016a).

susceptibility to infections, inflammation of and damage to the lung tissue, and some immunological changes (EPA 2013; CARB 2019a). These health problems are particularly acute in sensitive receptors such as the sick, older adults, and young children.

Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in and cause shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies of O_3's effects on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2019a).

A number of population groups are potentially at increased risk for O_3 exposure effects. In the ongoing review of O_3, the EPA has identified populations as having adequate evidence for increased risk from O_3 exposures include individuals with asthma, younger and older age groups, individuals with reduced intake of certain nutrients such as Vitamins C and E, and outdoor workers. There is suggestive evidence for other potential factors, such as variations in genes related to oxidative metabolism or inflammation, gender, socioeconomic status, and obesity. However further evidence is needed (SCAQMD 2017).

The adverse effects reported with short-term O_3 exposure are greater with increased activity because activity increases the breathing rate and the volume of air reaching the lungs, resulting in an increased amount of O_3 reaching the lungs. Children may be a particularly vulnerable population to air pollution effects because they spend more time outdoors, are generally more active, and have a higher specific ventilation relative to their body weight, compared to adults (SCAQMD 2017).

Nitrogen Dioxide. A large body of health science literature indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the AAQS for NO_2, is results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher compared to lower levels of exposure. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2019b).

Carbon Monoxide. Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, and light-headedness, dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2019c).

Sulfur Dioxide. SO_2 is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter (PM), SO_2 can injure lung tissue and reduce visibility and the level of sunlight. SO_2 can worsen asthma resulting in increased symptoms, increased medication usage, and emergency room visits.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the one-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 part per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. The elderly and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2019d).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in PM (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO_2-induced increase in resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter

A number of adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hours duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and world-wide based on the World Health Organization's Global Burden of Disease project. Short-term exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2017a).

Long-term (months to years) exposure to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory

mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that PM in outdoor air pollution causes lung cancer (CARB 2017a).

People with influenza, people with chronic respiratory and cardiovascular diseases, and older adults may suffer worsening illness and premature death as a result of breathing PM. People with bronchitis can expect aggravated symptoms from breathing PM. Children may experience a decline in lung function due to breathing in PM_{10} and $PM_{2.5}$ (EPA 2009).

PM encompasses a physically and chemically diverse class of ambient air pollutants of both anthropogenic and biological origin. The PM standard is the only NAAQS that does not target a specific chemical or family of chemical species (NRC 2005). The range of human health effects associated with ambient PM levels or demonstrated in laboratory studies has expanded from earlier concerns for total mortality and respiratory morbidity to include cardiac mortality and morbidity, blood vessel constriction, stroke, premature birth, low birth weight, retarded lung growth, enhancement of allergic responses, reduced resistance to infection, degenerative lesions in the brain, and lung cancer (EPA 2004).

Lead. Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phaseout of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and, in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

Reactive Organic Gases. Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O_3 are referred to and regulated as ROGs (also referred to as VOCs). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

The primary health effects of ROGs result from the formation of O_3 and its related health effects. High levels of ROGs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for ROGs as a group.

2.1.2.2 Non-Criteria Air Pollutants

Toxic Air Contaminants. A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancerous health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies

based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

Diesel Particulate Matter. Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of PM2.5 (CARB 2016b). DPM is typically composed of carbon particles ("soot," also called black carbon, or BC) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016b). The CARB classified "particulate emissions from diesel-fueled engines" (i.e., DPM; 17 CCR 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines, including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of PM2.5, DPM also contributes to the same noncancerous health effects as PM2.5 exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2016b). Those most vulnerable to noncancerous health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. Known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

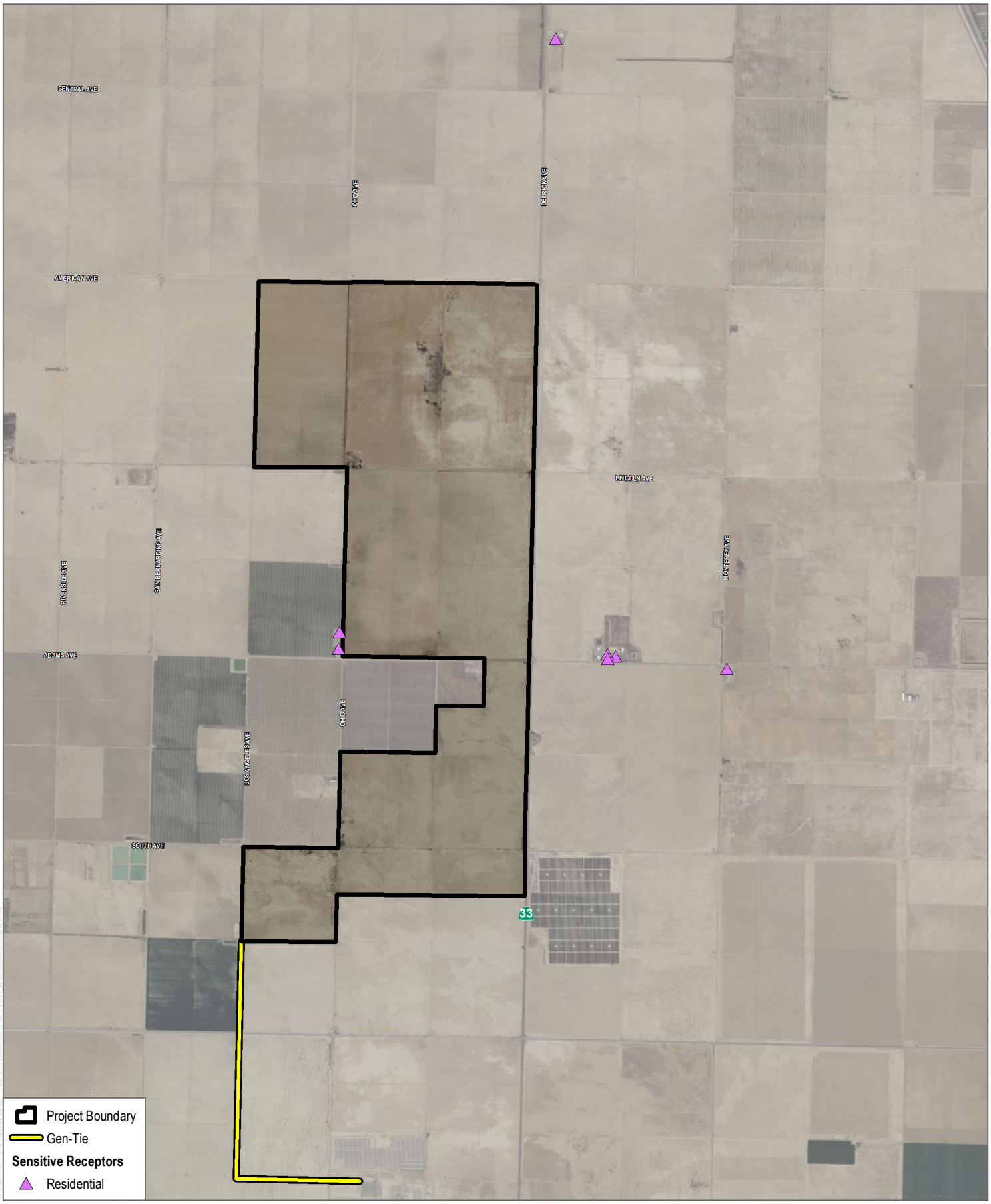
Valley Fever. Coccidioidomycosis, more commonly known as "valley fever," is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. When fungal spores are present, any activity that disturbs the soil, such as digging, grading, or other earth-moving operations, can cause the spores to become airborne and thereby increase the risk of exposure. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline sandy soils.

The fungus is very prevalent in the soils of California's San Joaquin Valley. Per the California Department of Public Health (CDPH), the range over 8 years (2012–2020) for coccidioidomycosis cases in Fresno County is 16.6 – 83.2 cases per 100,000 people per year. Statewide incidences in 2020 were 18.1 per 100,000 people (CDPH 2019). As such, it is considered highly endemic to Fresno County.

The project would be required to comply with Rule 8021, Section 6.3, which would require the project to develop, prepare, submit, obtain approval of, and implement a dust control plan.

2.1.3 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). The SJVAPCD identifies sensitive receptors as facilities that house or attract children, the elderly, people with illnesses, hospitals, schools, convalescent facilities, and residential areas (SJVAPCD 2000). The closest off-site sensitive receptor to the project site includes a residence located 80 feet west of the project site. Figure 2 shows the sensitive receptors closest to the project site.



SOURCE: Fresno County; Bing Maps

DUDEK

0 0.25 0.5 Miles

FIGURE 2

Sensitive Receptors

Heartland Solar Project

2.2 Regulatory Setting

2.2.1 Federal Regulations

2.2.1.1 Criteria Air Pollutants

The federal Clean Air Act, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the Clean Air Act, including setting National Ambient Air Quality Standards (NAAQS) for major air pollutants; setting hazardous air pollutant (HAP) standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric O_3 protection measures, and enforcement provisions. Under the Clean Air Act, NAAQS are established for the following criteria pollutants: O_3, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and lead.

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The NAAQS (other than for O_3, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for O_3, NO_2, SO_2, PM_{10}, and $PM_{2.5}$ are based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The Clean Air Act requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan that demonstrates how those areas will attain the NAAQS within mandated time frames. A more detailed discussion of the NAAQS, as well as the CAAQS (discussed below), is provided in Appendix D.

2.2.1.2 Hazardous Air Pollutants

The 1977 federal Clean Air Act amendments required the EPA to identify National Emission Standards for Hazardous Air Pollutants to protect public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 federal Clean Air Act Amendments, which expanded the control program for HAPs, 187 substances and chemical families were identified as HAPs.

2.2.2 State Regulations

2.2.2.1 Criteria Air Pollutants

The federal Clean Air Act delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the federal Clean Air Act, and regulating emissions from motor vehicles and consumer products.

CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. As stated previously, an ambient air quality standard defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. For

each pollutant, concentrations must be below the relevant CAAQS before a basin can attain the corresponding CAAQS. Air quality is considered "in attainment" if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, PM_{10}, and $PM_{2.5}$ and visibility-reducing particles are values that are not to be exceeded.

The SJVAPCD has based their thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an ambient air quality standard is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the ambient air quality standard, this means that the thresholds established by air districts are also protective of human health. All others are not to be equaled or exceeded. The NAAQS and CAAQS are presented in Table 1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
O_3	1 hour	0.09 ppm (180 µg/m³)	—	Same as Primary Standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	0.010 ppm (26.2 µg/m³)
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m³	9.0 µg/m³	15.0 µg/m³
Lead[j,k]	30-day Average	1.5 µg/m³	—	—
	Calendar Quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as Primary Standard
	Rolling 3-Month Average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24- hours	25 µg/m³	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016c.

Notes: µg/m³ = micrograms per cubic meter; mg/m³= milligrams per cubic meter; ppm = parts per million by volume; O_3 = ozone; NO_2 = nitrogen dioxide; CO = carbon monoxide; SO_2 = sulfur dioxide; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[k] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under Assembly Bill (AB) 1807 (Tanner). The California TAC list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) HAPs. In 1987, the Legislature enacted the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) to address public concern over the release of TACs into the atmosphere. AB 2588 law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years. TAC emissions from individual facilities are quantified and prioritized. "High-priority" facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, the facility operator is required to communicate the results to the public in the form of notices and public meetings.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines (CARB 2000). The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. There are several Airborne Toxic Control Measures that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

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

Safety Training on Valley Fever Assembly Bill 203

AB 203 adds Section 6709 to the Labor Code and requires employers to provide effective Valley Fever awareness and prevention training for all construction employees at risk of prolonged exposure to dust in Fresno, Kern, Kings, Madera, Merced, Monterey, San Joaquin, San Luis Obispo, Santa Barbara, Tulare, and Ventura Counties by May 1, 2020, annually by that date thereafter, and again before an employee begins work that is reasonably anticipated to cause exposure to substantial dust disturbance.

2.2.3 Local Regulations

2.2.3.1 San Joaquin Valley Air Pollution Control District

The SJVAPCD is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the SJVAB. The SJVAPCD jurisdiction includes all of Merced, San Joaquin, Stanislaus, Madera, Fresno, Kings, and Tulare Counties, and the San Joaquin Valley portion of Kern County.

Air Quality Plans

The SJVAPCD has prepared several air quality attainment plans to achieve the O_3 and particulate matter standards, the most recent of which include the *2020 Reasonably Available Control Technology Demonstration for the 2015 8-Hour Ozone Standard (SJVAPCD 2020a), 2016 Plan for the 2008 8-Hour Ozone Standard* (SJVAPCD 2016a), *2014 Reasonably Available Control Technology Demonstration for the 8-Hour Ozone State Implementation Plan* (SJVAPCD 2014a), *2013 Plan for the Revoked 1-Hour Ozone Standard* (SJVAPCD 2013), *2007 PM_{10} Maintenance Plan and Request for Redesignation* (SJVAPCD 2007a), *2012 $PM_{2.5}$ Plan* (SJVAPCD 2012), *2015 Plan for the 1997 $PM_{2.5}$ Standard* (SJVAPCD 2015b), *2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard* (SJVAPCD 2016b), and the *2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards* (SJVAPCD 2020b). The following sections summarize key elements of these and other recent air quality attainment plans.

Extreme 1-Hour Ozone Attainment Demonstration Plan

The *Extreme 1-Hour Ozone Attainment Demonstration Plan*, adopted by the SJVAPCD Governing Board October 8, 2004, sets forth measures and emission-reduction strategies designed to attain the federal 1-hour O_3 standard by November 15, 2010, as well as an emissions inventory, outreach, and rate of progress demonstration. This plan was approved by the EPA on March 8, 2010; however, the EPA's approval was subsequently withdrawn effective November 26, 2012, in response to a decision issued by the U.S. Court of Appeals for the Ninth Circuit (*Sierra Club v. EPA*, 671 F.3d 955) remanding EPA's approval of these SIP revisions. Concurrent with the EPA's final rule, CARB withdrew the 2004 plan. The SJVAPCD developed a new plan for the 1-hour O_3 standard, the *2013 Plan for the Revoked 1-Hour Ozone Standard*, which it adopted in September 2013.

2007 8-Hour Ozone Plan

The *2007 8-Hour Ozone Plan*, adopted by the Governing Board on April 30, 2007, sets forth measures and a "dual path" strategy to attain the federal 1997 8-hour O_3 standard by 2023 for the SJVAB by reducing emissions of O_3 and particulate matter precursors (SJVAPCD 2007b). The plan also includes provisions for improved pollution control technologies for mobile and stationary sources, as well as an increase in state and federal funding for incentive-based measures to reduce emissions. All local measures would be adopted by the SJVAPCD before 2012. This plan was approved by the EPA on April 30, 2012. On November 26, 2012, however, the EPA withdrew its determination that the plan satisfied the federal Clean Air Act requirements regarding emissions growth caused by growth in vehicle miles traveled. All other determinations in the EPA's March 1, 2012, rule approving the plan remain unchanged and in effect. The SJVAPCD is currently in the process of developing an O_3 plan to address EPA's 2008 8-hour O_3 standard, with attainment required by 2032.

2009 Reasonably Available Control Technology (RACT) SIP

On April 16, 2009, the Governing Board adopted the *Reasonably Available Control Technology Demonstration for Ozone State Implementation Plans* (2009 RACT SIP) (SJVAPCD 2009a). In part, the 2009 RACT SIP satisfied the commitment by the SJVAPCD for a new RACT analysis for the 1-hour O_3 plan (see discussion of the EPA withdrawal of approval in the *Extreme 1-Hour Ozone Attainment Demonstration Plan* summary above) and was intended to prevent all sanctions that could be imposed by EPA for failure to submit a required SIP revision for the 1-hour O_3 standard. With respect to the 8-hour standard, the plan also assesses the SJVAPCD's rules based on the adjusted major source definition of 10 tons per year (due to the SJVAB's designation as an extreme O_3 nonattainment area), evaluates SJVAPCD rules against new Control Techniques Guidelines promulgated since August 2006, and reviews additional rules and rule amendments that had been adopted by the Governing Board since August 17, 2006, for RACT consistency.

2013 Plan for the Revoked 1-Hour Ozone Standard

The SJVAPCD developed a plan for EPA's revoked 1-hour O_3 standard after the EPA withdrew its approval of the 2004 *Extreme 1-Hour Ozone Attainment Demonstration Plan* as a result of litigation. As a result of the litigation, the EPA reinstated previously revoked requirements for 1-hour O_3 attainment plans. The 2013 plan addresses those requirements, including a demonstration of implementation of Reasonably Available Control Measures and a demonstration of a rate of progress averaging 3% annual reductions of ROG or NO_x emissions every 3 years. The *2013 Plan for the Revoked 1-Hour Ozone Standard* was approved by the Governing Board on September 19, 2013 (SJVAPCD 2013). Based on implementation of the ongoing control measures, preliminary modeling indicates that the SJVAB will attain the 1-hour O_3 standard by 2017, before the final attainment year of 2022 and without relying on long-term measures under the federal Clean Air Act Section 182(e)(5) ("black box reductions").

2014 RACT SIP

On June 19, 2014, the Governing Board adopted the *2014 Reasonably Available Control Technology Demonstration for the 8-Hour Ozone State Implementation Plan* (2014 RACT SIP) (SJVAPCD 2014a). This RACT SIP includes a demonstration that the SJVAPCD rules implement RACT. The plan reviews each of the NO_x reduction rules and concludes that they satisfy requirements for stringency, applicability, and enforceability, and meet or exceed RACT. The plan's analysis of further ROG reductions through modeling and technical analyses demonstrates that added ROG reductions will not advance SJVAB's O_3 attainment. Each ROG (i.e., VOC) rule evaluated in the 2009 RACT SIP, however, has been subsequently approved by the EPA as meeting RACT within the last 2 years. The O_3 attainment strategy, therefore, focuses on further NO_x reductions.

SJVAPCD 2016 Plan for the 2008 8-Hour Ozone Standard

The SJVAPCD adopted the 2016 Plan for the 2008 8-Hour Ozone Standard in June 2016. This plan demonstrates the practicable and expeditious attainment of the 75 parts per billion 8-hour O_3 standard.

SJVAPCD 2016 Moderate Area Plan for the 2012 PM2.5 Standard

The SJVAPCD adopted the 2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard on September 15, 2016. This plan addresses the EPA federal annual $PM_{2.5}$ standard of 12 µg/m^3, established in 2012. This plan includes an attainment impracticability demonstration and request for reclassification of the San Joaquin Valley Air Basin (SJVAB) from Moderate nonattainment to Serious nonattainment.

SJVAPCD 2018 Plan for the 1997, 2006, and 2012 PM2.5 Standards

The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards on November 15, 2018. This plan addresses the U.S. Environmental Protection Agency (EPA) federal 1997 annual $PM_{2.5}$ standard of 15 µg/m³ and 24-hour $PM_{2.5}$ standard of 65 µg/m³; the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m³; and the 2012 annual $PM_{2.5}$ standard of 12 µg/m³. This plan demonstrates attainment of the federal $PM_{2.5}$ standards as expeditiously as practicable.

SJVAPCD 2022 Plan for the 2015 8-Hour Ozone Standard

The District adopted the *2022 Plan for the 2015 8-Hour Ozone Standard* on December 15, 2022. This Plan satisfies Clean Air Act requirements and ensures expeditious attainment of the 70 parts per billion 8-hour ozone standard.

SJVAPCD 2024 Plan for the 2012 PM2.5 Standards

The U.S. Environmental Protection Agency (EPA) established the 2012 PM2.5 annual standard of 12 µg/m³ on January 13, 2013. The Clean Air Act (CAA) mandates the District to develop and submit an attainment plan for the 2012 annual PM2.5 standard to EPA.

EPA initially designated the District as Moderate nonattainment for the 2012 PM2.5 standard in 2015. The District submitted the *2016 PM2.5 Plan* to address Moderate area requirements for the 2012 PM2.5 standard and to request to be reclassified to Serious nonattainment. EPA approved the Moderate Plan and reclassified the District to Serious nonattainment, effective December 2021.

The District adopted the *Initial State Implementation Plan (SIP) Requirements for the 2012 Annual PM2.5 Standard* on October 19, 2023, to fulfill the first portion of SIP elements required by the CAA for Serious PM2.5 nonattainment areas, including an updated emissions inventory, precursor demonstration, and the demonstration that BACM requirements continue to be satisfied in the Valley. Additionally, the District fulfilled Nonattainment New Source Review (NNSR) requirements through amendments to District Rule 2201 (New and Modified Stationary Source Review Rule) in April 2023.

The District adopted the *2024 Plan for the 2012 Annual PM2.5 Standard* on June 20, 2024, to fulfill the remaining CAA requirements, including the final modeling analysis, attainment strategy and emission reduction commitments, reasonable further progress/quantitative milestones, and contingency measures. This Plan demonstrates expeditious attainment of the 2012 PM2.5 standard by 2030.

2020 RACT Demonstration

The SJVAPCD adopted the 2020 RACT Demonstration for the 2015 8-Hour Ozone Standard on June 18, 2020. The Valley is classified as an Extreme nonattainment area for the 2015 O_3 standard. The 2020 RACT Demonstration includes a comprehensive evaluation of all NOx and ROG SJVAPCD rules to ensure that each rule meets or exceeds RACT. The 2020 RACT Demonstration fulfills CAA requirements and demonstrates that all federal RACT requirements continue to be satisfied in the Valley.

Particulate Matter Attainment Plans

2007 PM10 Maintenance Plan and Request for Redesignation

On September 20, 2007, the Governing Board approved the *2007 PM_{10} Maintenance Plan and Request for Redesignation* (SJVAPCD 2007a). After achieving compliance with the annual and 24-hour NAAQS for PM_{10} during the period from 2003 to 2006,[3] the SJVAPCD prepared the *2007 PM_{10} Maintenance Plan and Request for Redesignation*. The plan includes future emission estimates through 2020 and, based on modeling, projects that SJVAB will continue to attain the PM_{10} NAAQS through 2020. The plan does not call for adoption of new control measures. Measures called for in the *2007 8-Hour Ozone Plan* and *2008 $PM_{2.5}$ Plan* (discussed below) will also produce PM_{10} benefits; however, the plan does include a contingency plan if future PM_{10} levels were to exceed the NAAQS. It also includes a request that the EPA redesignate the SJVAB to attainment status for the PM_{10} NAAQS. On October 25, 2007, CARB approved the SJVAPCD's plan with modifications to the transportation conformity budgets. On September 25, 2008, the EPA redesignated the SJVAB to attainment for the PM_{10} NAAQS and approved the PM_{10} maintenance plan.

2008 PM2.5 Plan

The SJVAPCD Governing Board adopted the *2008 $PM_{2.5}$ Plan* on April 30, 2008 (SJVAPCD 2008). This plan is designed to assist the SJVAB in attaining all $PM_{2.5}$ standards, including the 1997 federal standards, the 2006 federal standards, and the state standard, as soon as possible. On July 13, 2011, the EPA issued a proposed rule partially approving and disapproving the *2008 $PM_{2.5}$ Plan*. Subsequently, on November 9, 2011, the EPA issued a final rule approving most of the plan with an effective date of January 9, 2012. However, the EPA disapproved the plan's contingency measures because they would not provide sufficient emission reductions.

2012 PM2.5 Plan

Approved by the Governing Board on December 20, 2012, the *2012 $PM_{2.5}$ Plan* addresses attainment of EPA's 24-hour $PM_{2.5}$ standard of 35 micrograms per cubic meter (µg/m^3) established in 2006. In addition to reducing direct emissions of $PM_{2.5}$, this plan focuses on reducing emissions of NO_x, which is a predominant pollutant in the formation of $PM_{2.5}$ in the SJVAB. The plan relies on a multilevel approach to reducing emissions through SJVAPCD efforts (industry, the general public, employers, and small businesses) and state/federal efforts (passenger vehicles, heavy-duty trucks, and off-road sources), as well as SJVAPCD and state/federal incentive programs to accelerate replacement of on- and off-road vehicles and equipment. Through compliance with this attainment plan, the SJVAB would achieve attainment of the federal $PM_{2.5}$ standard by the attainment deadline of 2019, with the majority of the SJVAB actually experiencing attainment well before the deadline. The EPA lowered the $PM_{2.5}$ standard again in 2012 and is in the process of completing attainment designations.

2015 Plan for the 1997 PM2.5 Standard

The Governing Board adopted the *2015 Plan for the 1997 $PM_{2.5}$ Standard* on April 16, 2015 (SJVAPCD 2015b). This plan addresses the EPA's annual $PM_{2.5}$ standard of 15 micrograms per cubic meter (µg/m^3) and 24-hour $PM_{2.5}$ standard of 65 µg/m^3 established in 1997. While nearly achieving the 1997 standards, the SJVAB experienced higher $PM_{2.5}$ levels in winter 2013–2014 due to the extreme drought, stagnation, strong inversions, and historically dry conditions; thus, the

[3] Attainment is achieved if the 3-year annual average PM_{10} concentration is less than or equal to 50 µg/m^3 and the expected 24-hour exceedance days is less than or equal to 1.0.

SJVAPCD was unable to meet the attainment date of December 31, 2015. Accordingly, this plan also contains a request for a one-time extension of the attainment deadline for the 24-hour standard to 2018 and the annual standard to 2020. The plan builds on past development and implementation of effective control strategies. Consistent with EPA regulations for $PM_{2.5}$ plans to achieve the 1997 standards, the plan contains Most Stringent Measures, Best Available Control Measures, additional enforceable commitments for further reductions in emissions, and ensures expeditious attainment of the 1997 standard.

2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard

On September 15, 2016, the Governing Board adopted the *2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard* (SJVAPCD 2016b). This plan addresses the federal mandates for areas classified as "moderate nonattainment" for the 2012 $PM_{2.5}$ NAAQS of 12 µg/m^3. Consistent with EPA's $PM_{2.5}$ Implementation Rule, the plan satisfies the mandate to submit a moderate nonattainment plan to EPA by October 2016, demonstrates impracticability of attaining the 2012 $PM_{2.5}$ standard by the moderate nonattainment deadline of 2021, includes a request to reclassify the San Joaquin Valley to a "serious nonattainment" area for the 2012 PM2.5 standard, satisfies all federal Clean Air Act requirements for moderate nonattainment areas, and demonstrates that emissions are continuing to be reduced in the San Joaquin Valley.

2017 Particulate Matter Plans

The SJVAPCD is in the process of developing an attainment strategy to address the 1997, 2006, and 2012 $PM_{2.5}$ standards and a plan to demonstrate maintenance of the 1987 PM_{10} standard, as required under the federal Clean Air Act.

Senate Bill 656 Particulate Matter Control Measure Implementation Schedule

Senate Bill (SB) 656 was enacted in 2003 and codified as California Health and Safety Code Section 39614. SB 656 seeks to reduce exposure to PM_{10} and $PM_{2.5}$ and to make further progress toward attainment of the NAAQS and CAAQS for PM_{10} and $PM_{2.5}$. SB 656 required CARB, in consultation with local air districts, to develop and adopt lists of "the most readily available, feasible, and cost-effective" particulate matter control measures. Subsequently, the air districts were required to adopt implementation schedules for the relevant control measures in their district. In June 2005, the SJVAPCD adopted its SB 656 Particulate Matter Control Measure Implementation Schedule. The SJVAPCD analysis of the CARB list concluded that all but one of the measures that apply to SJVAPCD sources had been implemented or were in one of the SJVAPCD's attainment plans for adoption within the next 2 years. The remaining measure pertains to a future amendment of a rule for gasoline transfer into stationary storage containers, delivery vessels, and bulk plants.

Applicable Rules

The SJVAPCD's primary means of implementing air quality plans is by adopting and enforcing rules and regulations. Stationary sources within the jurisdiction are regulated by the SJVAPCD's permit authority over such sources and through its review and planning activities. Unlike stationary source projects, which encompass very specific types of equipment, process parameters, throughputs, and controls, air emissions sources from land use development projects are mainly mobile sources (traffic) and area sources (small dispersed stationary and other non-mobile sources), including exempt (i.e., no permit required) sources such as consumer products, landscaping equipment, furnaces, and water heaters. Mixed-use land development projects may include nonexempt sources

including devices such as small to large boilers, stationary internal combustion engines, gas stations, or asphalt batch plants.

Notwithstanding nonexempt stationary sources, which would be permitted on a case-by-case basis, SJVAPCD Regulations VIII and IX generally apply to land use development projects and are described below:

Regulation IV – Prohibitions

- **Rule 4102: Nuisance** – Prohibits discharge of air contaminants or other materials from any source which causes injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health, or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property.
- **Rule 4601: Architectural Coatings** – The purpose of the rule is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements.
- **Rule 4641:** Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations – The purpose of this rule is to limit VOC emissions by restricting the application and manufacturing of certain types of asphalt for paving and maintenance operations.

Regulation VIII – Fugitive PM_{10} Prohibition

- **Rule 8021:** Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities – The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities. The rule outlines Dust Control Plan requirements for certain applicable construction activities.
- **Rule 8031:** Bulk Materials – The purpose of the rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials.
- **Rule 8041:** Carryout and Trackout – The purpose of this rule is to prevent or limit fugitive dust emissions from carryout and trackout.
- **Rule 8051:** Open Areas – The purpose of this rule is to limit fugitive dust emissions from open areas.
- **Rule 8061:** Paved and Unpaved Roads – The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria.
- **Rule 8071:** Unpaved Vehicle/Equipment Traffic Areas – The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas.

Pursuant to Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts to less than significant during project construction.

Regulation IX – Mobile and Indirect Sources

- **Rule 9110:** General Conformity – The rule specifies the criteria and procedures for determining the conformity of federal actions with the San Joaquin Valley Unified Air Pollution Control District's air quality implementation plan.

- **Rule 9120:** Transportation Conformity – The rule sets forth the principles for determining conformity of transportation plans, programs, and projects which are developed, funded, or approved by the U.S. Department of Transportation (DOT), and by metropolitan planning organizations (MPOs) or other recipients of funds under Title 23 U.S.C. or the Federal Transit Act. The rule sets forth policy, criteria, and procedures for demonstrating and assuring conformity of such activities to an applicable implementation plan developed pursuant to the Clean Air Act.
- **Rule 9410**: Employer Based Trip Reduction – The purpose of this rule is to reduce vehicle miles traveled (VMT) from private vehicles used by employees to commute to and from their worksites to reduce emissions of oxides of nitrogen, volatile organic compounds, and particulate matter.
- **Rule 9510**: Indirect Source Review (ISR) – The purpose of this rule is to fulfill the District's emission reduction commitments in the PM_{10} and Ozone Attainment Plans, achieve emission reductions from the construction and use of development projects through design features and on-site measures, and provide a mechanism for reducing emissions from the construction of and use of development projects through off-site measures.
- **Rule 9610:** State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs – The purpose of this rule is to provide an administrative mechanism for the District to achieve credit towards State Implementation Plan requirements for emission reductions achieved in the San Joaquin Valley Air Basin through incentive programs administered by the District, U.S. Department of Agriculture Natural Resources Conservation Service, or CARB.

Rule 9510: Indirect Source Review

The ISR rule, which was adopted December 15, 2005, and went into effect March 1, 2006, requires developers of new residential, commercial, and some industrial projects to reduce NO_x and PM_{10} emissions generated by their projects. Pursuant to Rule 9510, the purpose of the ISR program is to reduce emissions of NO_x and PM_{10} from new land development projects. In general, development contributes to air pollution in the SJVAB increasing the number of vehicles and vehicle miles traveled. ISR applies to development projects that require discretionary approval from the lead agency. The ISR rule also applies to transportation and transit projects whose construction exhaust emissions would equal or exceed 2 tons per year of NO_x or PM_{10}. The ISR rule requires submittal of an air impact assessment application no later than the date on which application is made for a final discretionary approval from the public agency. The air impact assessment contains the information necessary to calculate both construction and operational emissions of a development project.

Section 6.0 of the ISR rule outlines general mitigation requirements for developments that include reduction in construction emissions of 20% of the total construction NO_x emissions, and 45% of the total construction PM_{10} exhaust emissions. The rule also requires the project to reduce operational NO_x emissions by 33.3% and operational PM_{10} emissions by 50% compared to the unmitigated baseline. Section 7.0 of the ISR rule includes fee schedules for construction or operational excess emissions of NO_x or PM_{10}—those emissions above the goals identified in Section 6.0 of the rule. Monies collected from this fee are used by the SJVAPCD to fund emission reduction projects in the SJVAB on behalf of the project.

Rule 9610: State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs

Rule 9610 provides an administrative mechanism for the SJVAPCD to receive credit towards SIP requirements for emission reductions achieved in the SJVAB through incentive programs administered by the SJVAPCD, U.S. Department of Agriculture

Natural Resources Conservation Service, or CARB. On April 9, 2015, EPA finalized a limited approval and limited disapproval (for a minor administrative error) of Rule 9610 as a revision to the California SIP. Additional documentation regarding the effectiveness of the SJVAPCD's incentive programs can be found in *2015 Annual Demonstration Report SIP Credit for Emission Reductions Generated Through Incentive Programs* (SJVAPCD 2015c).

2.2.3.2 Fresno Council of Governments

Fresno Council of Governments (FCOG) Board adopted the 2022 Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS) on July 28, 2022 (FCOG 2022). The RTP/SCS is comprehensive in its response to new federal statues embodies in the Moving Ahead for Progress in the 21st Century and state statutes including Senate Bill 375. The RTP/SCS continues to provide a sustainability vision through year 2046 that recognizes the significant impact the transportation network has on the region's public health, mobility, and economic vitality. As the region's comprehensive long-range transportation planning document, the RTP/SCS serves as a guide for achieving public policy decisions that will result in balanced investments for a wide range of multimodal transportation improvements.

2.2.3.3 Fresno County

The County's General Plan Open Space and Conservation Element, the Air Quality section is intended to protect public health and welfare by implementing measures that allow the SJVAPCD to attain federal and state air quality standards. The Element sets forth a number of policies and standards to reduce current pollutant emissions and to require new development to include measures to comply with air quality standards. The County's General Plan Open Space and Conservation Element, Air Quality section includes the following:

Goal OS-G To improve air quality and minimize the adverse effects of air pollution in Fresno County.

Policies

Environmental Assessment and Mitigation

Policy OS-G.1 The County shall develop standard methods for determining and mitigating project air quality impacts and related thresholds of significance for use in environmental documents. The County will do this in conjunction with the SJVAPCD and the cities in Fresno County.

Policy OS-G.2 The County shall ensure that air quality impacts identified during the CEQA review process are fairly and consistently mitigated. The County shall require projects to comply with the County's adopted air quality impact assessment and mitigation procedures.

Coordination and Cooperation

Policy OS-G.3 The County shall participate with cities, surrounding counties, and regional agencies to address cross-jurisdictional and regional transportation and air quality issues.

Policy OS-G.4 The County shall consult with the SJVAPCD during CEQA review for projects that require air quality impact analysis and ensure that the SJVAPCD is on the distribution list for all CEQA documents.

Policy OS-G.5 The County shall participate with cities, surrounding counties, and regional agencies in the San Joaquin Valley in efforts to promote consistent air quality programs and implementation programs to the extent possible (e.g., transportation control measures, trip reduction ordinances, indirect source programs, etc.).

Integrated Planning

Policy OS-G.6 The County shall require all Fresno County transportation improvement projects that increase capacity by adding additional through lanes to be included in regional transportation plans and be consistent with the air quality goals and policies of the General Plan.

Public Facilities/Operation

Policy OS-G.7 The County shall develop and implement employer-based trip reduction programs for County employees.

Policy OS-G.8 The County shall encourage its departments to consider telecommuting programs as a trip reduction strategy.

Policy OS-G.9 The County fleet vehicle operators shall implement vehicle replacement practices that place a priority on replacement of older higher-emission vehicles and on purchasing new vehicles with engines using best available technologies and advanced fuels where feasible, consistent with cost-effective management of the program.

Policy OS-G.10 The County shall support the use of teleconferencing in lieu of employee travel to conferences and meetings when feasible.

Congestion Management/Transportation Control Measures Policy

OS-G.11 The County shall encourage the establishment of public/private partnerships to develop satellite and neighborhood work centers for telecommuting.

Toxic and Hazardous Emissions Policy

OS-G.12 The County shall continue, through its land use planning processes, to avoid inappropriate location of residential uses and sensitive receptors in relation to uses that include but are not limited to industrial and manufacturing uses and any other use which have the potential for creating a hazardous or nuisance effect.

Particulate Matter/Fugitive Dust Policy

OS-G.13 The County shall include fugitive dust control measures as a requirement for subdivision maps, site plans, and grading permits. This will assist in implementing the SJVUAPCD's PM_{10} regulation (Regulation VIII). Enforcement actions can be coordinated with the Air District's Compliance Division.

Policy OS-G.14 The County shall require all access roads, driveways, and parking areas serving new commercial and industrial development to be constructed with materials that minimize particulate emissions and are appropriate to the scale and intensity of use.

Policy OS-G.15 The County shall continue to work to reduce PM_{10} and $PM_{2.5}$ emissions from County-maintained roads by considering shoulder treatments for dust control as part of road reconstruction projects.

Woodburning

Policy OS-G.16 The County shall require the use of natural gas or the installation of low emission, EPA-certified fireplace inserts in all open hearth fireplaces in new homes. The County shall promote the use of natural gas over wood products in space heating devices and fireplaces in all existing and new homes.

2.3 Regional and Local Air Quality Conditions

2.3.1 San Joaquin Valley Air Basin Attainment Designation

Pursuant to the 1990 federal Clean Air Act amendments, the EPA classifies air basins (or portions thereof) as "attainment" or "nonattainment" for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as "attainment" for that pollutant. If an area exceeds the standard, the area is classified as "nonattainment" for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable." The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are re-designated as maintenance areas and must have approved Maintenance Plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on CAAQS rather than the NAAQS. Table 2 depicts the current attainment status of the project site with respect to the NAAQS and CAAQS, as well as the attainment classifications for the criteria pollutants are outlined in Table 2.

Table 2. San Joaquin Valley Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	California Designation
Ozone (O_3) – 1-hour	No national standard[1]	Nonattainment/Severe
Ozone (O_3) – 8-hour	Nonattainment/Extreme[2]	Nonattainment
Nitrogen dioxide (NO_2)	Unclassifiable/attainment	Attainment
Carbon monoxide (CO)	Unclassifiable/attainment	Attainment
Sulfur dioxide (SO_2)	Unclassifiable/attainment	Attainment
Respirable particulate matter (PM_{10})	Attainment (Maintenance)[3]	Nonattainment
Fine particulate matter ($PM_{2.5}$)	Nonattainment[4]	Nonattainment
Lead (Pb)[5]	Unclassifiable/attainment	Attainment
Sulfates (SO_4)	No national standard	Attainment
Hydrogen sulfide (H_2S)	No national standard	Unclassified

Table 2. San Joaquin Valley Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	California Designation
Vinyl chloride[5]	No national standard	No designation
Visibility-reducing particles	No national standard	Unclassified

Sources: SJVAPCD 2020c; EPA 2018 (national); CARB 2019e (California).
Notes: Attainment = meets the standards; Attainment (maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or unclassifiable = insufficient data to classify; Unclassifiable/attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

1 Effective June 15, 2005, the EPA revoked the national 1-hour ozone standard, including associated designations and classifications. EPA had previously classified the SJVAB as extreme nonattainment for this standard. EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan (SJVAPCD 2004) on March 8, 2010 (effective April 7, 2010). Many applicable requirements for extreme 1-hour ozone nonattainment areas continue to apply to the SJVAB.

2 Though the San Joaquin Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard, EPA approved San Joaquin Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).

3 On September 25, 2008, EPA re-designated the San Joaquin Valley to attainment for the PM_{10} NAAQS and approved the PM_{10} Maintenance Plan.

4 The San Joaquin Valley is designated nonattainment for the 1997 $PM_{2.5}$ NAAQS. EPA designated the San Joaquin Valley as nonattainment for the 2006 $PM_{2.5}$ NAAQS on November 13, 2009 (effective December 14, 2009).

5 CARB has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined.

In summary, the EPA has designated the SJVAB as a nonattainment area for the national 8-hour O_3 standard, and CARB has designated the SJVAB as a nonattainment area for the California 1-hour and 8-hour O_3 standards. The SJVAB has been designated as a nonattainment area for the California 24-hour and annual PM_{10} standards, a nonattainment area for the national 24-hour and annual $PM_{2.5}$ standards, and as a nonattainment area for the California annual $PM_{2.5}$ standard. The SJVAB is designated as unclassified or attainment for all other criteria air pollutants.

2.3.2 Local Ambient Air Quality

CARB, air districts, and other agencies monitor ambient air quality at approximately 250 air quality monitoring stations across the state. The SJVAPCD and CARB monitors local ambient air quality at the project site. Air quality monitoring stations usually measure pollutant concentrations 10 feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. The most recent background ambient air quality data from 2021 to 2023 are presented in Table 3. The Tranquility monitoring station, located at 32650 West Adams Avenue, Tranquility, CA, 93668, is the nearest air quality monitoring station to the project site, located approximately 0.4 miles away. The data collected at this station are considered representative of the air quality experienced in the project vicinity. Air quality data for O_3 and $PM_{2.5}$ from the Tranquility monitoring station are provided in Table 3. Because NO_2, CO, and PM_{10} are not monitored at the Tranquility monitoring station, NO_2 and PM_{10} measurements were taken from the Fresno-Drummond monitoring station located at 4706 E. Drummond St, Fresno, CA, 93727 (36.3 miles) and CO measurements were taken from the Fresno-First Street monitoring station located at 3727 N. First Street, Fresno, CA, 93726 (35.3 miles). SO_2 is not currently monitored in the County and data is not available. The number of days exceeding the ambient air quality standards are also shown in Table 3.

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2021	2022	2023	2021	2022	2023
Ozone (O_3)										
Tranquility	ppm	Maximum 1-hour concentration	California	0.09	0.088	0.074	0.073	0	0	0
	ppm	Maximum 8-hour concentration	California	0.070	0.080	0.067	0.066	6	0	0
			National	0.070	0.080	0.066	0.065	5	0	0
Nitrogen Dioxide (NO_2)										
Fresno-Drummond St.	ppm	Maximum 1-hour concentration	California	0.18	0.064	0.058	0.058	0	0	0
			National	0.100	0.065	0.058	0.058	0	0	0
	ppm	Annual concentration	California	0.030	0.011	0.012	0.010	—	—	—
			National	0.053	0.011	0.012	0.010	—	—	—
Carbon Monoxide (CO)										
Fresno-First Street	ppm	Maximum 1-hour concentration	California	20	1.9	2.1	2.2	—	—	—
			National	35	1.9	2.1	2.2	—	—	—
	ppm	Maximum 8-hour concentration	California	9.0	1.7	1.8	1.7	—	—	—
			National	9	1.7	1.8	1.7	—	—	—
Sulfur Dioxide (SO_2)										
Fresno-First Street	ppm	Maximum 1-hour concentration	National	0.075	0.008	0.003	0.005	—	—	—
	ppm	Maximum 24-hour concentration	California	0.04	0.003	0.001	0.002	—	—	—
	ppm		National	0.140	0.003	0.001	0.002	—	—	—
	ppm	Annual concentration	National	0.030	0.0004	0.0003	0.0004	—	—	—
Coarse Particulate Matter (PM_{10})[a]										
	µg/m³	Maximum 24-hour concentration	California	50	149.8	166.5	130.0	(20) —	(133) —	(120) —

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2021	2022	2023	2021	2022	2023
Fresno-Drummond St.			National	150	151.8	73.4	131.1	(0) —	(0) —	(0) 0.0
	µg/m³	Annual concentration	California	20	43.8	31.2	42.7	—	—	—
Fine Particulate Matter ($PM_{2.5}$)[a]										
Tranquility	µg/m³	Maximum 24-hour concentration	National	35	65.3	33.1	26.2	(7) 7.1	(0) 0.0	(0) 0.0
	µg/m³	Annual concentration	California	12	9.0	12	9	—	—	—
			National	9	8.9	9.1	6.8	—	—	—

Sources: CARB 2025a; EPA 2025a.

Notes: — = not available; µg/m³ = micrograms per cubic meter; ND = insufficient data available to determine the value; ppm = parts per million

Data taken from CARB iADAM (http://www.arb.ca.gov/adam) and EPA AirData (https://www.epa.gov/outdoor-air-quality-data) represent the highest concentrations experienced over a given year. Exceedances of national and California standards are only shown for O_3 and particulate matter. Daily exceedances for particulate matter are estimated days because PM_{10} and $PM_{2.5}$ are not monitored daily. All other criteria pollutants did not exceed national or California standards during the years shown. There is no national standard for 1-hour O_3, annual PM_{10}, or 24-hour SO_2, nor is there a California 24-hour standard for $PM_{2.5}$.

Tranquility Monitoring Station is located at 32650 West Adams Avenue, Tranquility, CA, 93668.

Fresno-Drummond Monitoring Station is located at 4706 E. Drummond St, Fresno, CA, 93727.

Fresno-First Street Monitoring Station located at 3727 N. First Street, Fresno, CA, 93726.

[a] Measurements of PM_{10} and $PM_{2.5}$ are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard

2.4 Significance Criteria and Methodology

2.4.1 Thresholds of Significance

The following criteria, as established in Appendix G of the CEQA Guidelines, are used to determine if a project could potentially have a significant adverse effect related to air quality. The significance criteria used to evaluate the project impacts to air quality is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this air quality analysis, a significant impact would occur if the project would (14 CCR 15000 et seq.):

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

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether the project would have a significant impact on air quality.

The SJVAPCD has adopted guidelines for implementing CEQA which are applied during CEQA review of projects for which SJVAPCD is the lead agency. However, Fresno County is the CEQA lead agency for the proposed project and will make the determination as to whether or not the proposed project may have a significant effect on the environment. Fresno County's determination will take into consideration SJVAPCD's criteria but will ultimately be based upon the thresholds adopted by Fresno County.

SJVAPCD

Criteria Air Pollutants

The SJVAPCD GAMAQI has established emissions-based thresholds of significance for criteria pollutants (SJVAPCD 2015a), which are depicted in Table 4. As shown in Table 4, the SJVAPCD has established significance thresholds for construction emissions and operational permitted and non-permitted equipment and activities, and it recommends evaluating impact significance for these categories separately. These thresholds of significance are based on a calendar-year basis, although construction emissions are assessed on a rolling 12-month period.

Table 4. SJVAPCD CEQA Significance Thresholds for Criteria Pollutants

Pollutant	Construction Emissions (tons per year)	Operational Emissions (tons per year)	
		Permitted Equipment and Activities	Non-Permitted Equipment and Activities
ROG	10	10	10
NO_x	10	10	10
CO	100	100	100
SO_x	27	27	27

Table 4. SJVAPCD CEQA Significance Thresholds for Criteria Pollutants

Pollutant	Construction Emissions (tons per year)	Operational Emissions (tons per year)	
		Permitted Equipment and Activities	Non-Permitted Equipment and Activities
PM_{10}	15	15	15
$PM_{2.5}$	15	15	15

Source: SJVAPCD 2015a.

In addition to the annual emissions mass thresholds described in Table 4, the SJVAPCD has also established screening criteria to determine whether a project would result in a CO hotspot at affected roadway intersections (SJVAPCD 2015a). If neither of the following criteria is met at any of the intersections affected by the project, the project would result in no potential to create a violation of the CO standard:

- A traffic study for the project indicates that the level of service (LOS) on one or more streets or at one or more intersections in the project site will be reduced to LOS E or F.
- A traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project site.

Ambient Air Quality Impacts

Appendix G of the CEQA Guidelines indicates that a project would have a significant air quality impact if it would violate any air quality standard or contribute substantially to an existing or projected air quality violation. The thresholds of significance for ambient air quality are based on the CAAQS and NAAQS, whereby a project would be considered to have a significant impact if its emissions are predicted to cause or contribute to a violation of an ambient air quality standard by exceeding any CAAQS or NAAQS (SJVAPCD 2015a). The SJVAPCD recommends that an Ambient Air Quality Assessment be performed when on-site emissions of any criteria pollutant would equal or exceed any applicable threshold of significance for criteria pollutants or 100 pounds per day of any criteria pollutant (SJVAPCD 2015a). In the Ambient Air Quality Assessment, air pollutant concentrations are determined through air quality dispersion modeling, added to the corresponding background level, and compared to the relevant CAAQS and/or NAAQS. If the air pollutant concentrations plus background levels, however, would exceed a CAAQS or NAAQS, the SJVAPCD recommends that specified significant impact levels (SILs) be applied to the modeled concentrations to assess whether a project's emissions would contribute substantially to an existing violation of the CAAQS or NAAQS (SJVAPCD 2014b).

Toxic Air Contaminants

The SJVAPCD has established thresholds of significance for combined TAC emissions from the operations of both permitted and non-permitted sources (SJVAPCD 2015a). projects that have the potential to expose the public to TACs in excess of the following thresholds would be considered to have a significant air quality impact:

- Probability of contracting cancer for the maximally exposed individual equals or exceeds 20 in 1 million people[4]

[4] The cancer risk threshold was increased from 10 to 20 in 1 million with approval of APR 1906 (Framework for Performing Health Risk Assessments) on June 30, 2015.

- Hazard Index[5] for acute and chronic non-carcinogenic TACs equals or exceeds 1 for the maximally exposed individual

Odors

As described in the GAMAQI, due to the subjective nature of odor impacts, there are no quantitative thresholds to determine if potential odors would have a significant impact (SJVAPCD 2015a). projects must be assessed for odor impacts on a case-by-case basis for the following two situations:

- Generators: projects that would potentially generate odorous emissions proposed to locate near existing sensitive receptors or other land uses where people may congregate
- Receivers: Residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources

The SJVAPCD has identified some common types of facilities that have been known to produce substantial odors, as well as screening distances between these odor sources and receptors. These are depicted in Table 5.

Table 5. Screening Levels for Potential Odor Sources

Type of Facility	Screening Distance (Miles)
Wastewater Treatment Facility	2
Sanitary Landfill	1
Transfer Station	1
Composting Facility	1
Petroleum Facility	2
Asphalt Batch Plant	1
Chemical Manufacturing	1
Fiberglass Manufacturing	1
Painting/Coating (i.e., auto body shop)	1
Food Processing Facility	1
Feed Lot/Dairy	1
Rendering Plant	1

Source: SJVAPCD 2015d.

If the project would result in an odor source and sensitive receptors being located within these screening distances, additional analysis would be required. For projects involving new receptors locating near an existing odor source where there is currently no nearby development and for new odor sources locating near existing receptors, the SJVAPCD recommends the analysis be based on a review of odor complaints for similar facilities, with consideration also given to local meteorological conditions, particularly the intensity and direction of prevailing winds. Regarding

[5] Non-cancer adverse health impact, both for acute (short-term) and chronic (long-term) health effects, is measured against a hazard index, which is defined as the ratio of the predicted incremental exposure concentration from the project to a published reference exposure level that could cause adverse health effects as established by the Office of Environmental Health Hazard Assessment (OEHHA). The ratio (referred to as the hazard quotient) of each noncarcinogenic substance that affects a certain organ system is added together to produce an overall hazard index for that organ system.

the complaint record of the odor source facility (or similar facility), the facility would be considered to result in significant odors if there has been:

- More than one confirmed complaint per year averaged over a 3-year period.
- Three unconfirmed complaints[6] per year averaged over a 3-year period.

Cumulative

A project's emissions may be individually limited but cumulatively considerable when taken in combination with past, present, and future development within the SJVAB. If a project would result in a significant impact based on the SJVAPCD annual thresholds of significance for criteria pollutants, then the project would also be considered cumulatively significant. However, if the project emissions are below the annual significance thresholds for criteria pollutants, the impact may still be cumulatively significant. For instance, if the project results in criteria pollutant concentrations that exceed any of the federal health-based ambient air concentration standards or causes a worsening of areas already exceeding those standards, the project's impacts would be considered individually significant, as well as cumulatively significant. In addition, the combined emissions of the project and cumulative development located within the same area could potentially cause or worsen an exceedance of the concentration standards, whereby the project would have a cumulatively significant impact (SJVAPCD 2015a).

In regard to TACs, since impacts are localized and the SJVAPCD thresholds of significance for TACs have been established at an extremely conservative level, risks that equal or exceed the individual thresholds of significance are also considered cumulatively significant (SJVAPCD 2015a). No other cumulative risk thresholds would apply.

The SJVAPCD has not established cumulative significance thresholds regarding odor impacts.

2.4.2 Approach and Methodology

2.4.2.1 Construction Emissions

Emissions from the construction phase of the project were estimated using the CalEEMod Version 2022.1.1.29. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the project applicant and CalEEMod default values when project specifics were not known.

For purposes of estimating project emissions, and based on information provided by the project applicant, it is assumed that construction of the project would commence in December 2026[7] and would last approximately 18 months, ending in May 2028. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Move-On (Laydown, construction trailers, and parking area) (2 weeks)
- Substation Construction (12 months)

6 An unconfirmed complaint means that either the odor/air contaminant release could not be detected or the source/facility cannot be determined (SJVAPCD 2015a).

7 The analysis assumes a construction start date of December 2026, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant and GHG emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

- Gen-tie Line Installation (12 months)
- Site Preparation and Grading (4 months)
- Underground Work (Trenching) (5 months)
- System Installation (8 months)
- Battery/Container Installation (8 months)
- PG&E Tranquility Switching Station Upgrades (4 months)
- Cleanup/Testing/Restoration (4 months)
- Decommissioning (9 months)

The Solar Facility and BESS would be balanced onsite. The anticipated engine tier per equipment type was provided by the project applicant. The CalEEMod default fleet mix was assumed for the PG&E Tranquility Substation Upgrades. The construction equipment mix and vehicle trips used for estimating the project-generated construction emissions are shown in Table 6.

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Move-on (Laydown, construction trailers, and parking area)	20	10	20	Graders	2	6
				Rubber Tired Dozers	1	6
				Scrapers	2	6
				Rubber Tired Loaders	2	6
				Tractors/Loaders/ Backhoes	2	6
				Skid Steer Loaders	3	6
				Generator Sets	1	24
Substation Construction	20	2	40	Generator Sets	1	12
				Other General Industrial Equipment	1	4
				Tractors/Loaders/ Backhoes	1	4
				Cranes	1	5
				Rough Terrain Forklifts	2	4
				Aerial Lifts	1	4
				Graders	1	6
				Rubber Tired Dozers	1	3
				Scrapers	1	4
				Rubber Tired Loaders	1	3

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
				Excavators	1	4
				Tractors/Loaders/ Backhoes	1	6
Gen-Tie Line Installation	20	2	40	Tractors/Loaders/ Backhoes	1	4
				Cranes	1	4
				Crawler Tractors	1	4
				Bore/Drill Rigs	1	2
				Rough Terrain Forklifts	1	4
				Other Construction Equipment	1	4
				Generator Sets	1	4
Site Preparation and Grading	150	10	0	Pumps	2	8
				Graders	2	8
				Rubber Tired Dozers	1	3
				Scrapers	3	6
				Rubber Tired Loaders	3	6
				Tractors/Loaders/ Backhoes	2	6
				Tractors/Loaders/ Backhoes	2	6
				Rollers	1	3
				Skid Steer Loaders	2	6
				Generator Sets	1	24
				Generator Sets	1	24
Underground Work (Trenching)	80	10	0	Tractors/Loaders/ Backhoes	1	6
				Trenchers	1	6
				Plate Compactors	1	4
				Excavators	1	4
				Trenchers	4	6
				Crushing/Processing Equipment	1	6
				Tractors/Loaders/ Backhoes	2	4

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
				Rollers	2	2
System Installation	800	10	400	Rough Terrain Forklifts	5	4
				Aerial Lifts	3	4
				Skid Steer Loaders	10	4
				Air Compressors	1	6
				Other Construction Equipment	15	6
				Generator Sets	1	24
				Generator Sets	1	24
Battery/ Container Installation	50	14	528	Rubber Tired Loaders	1	8
				Excavators	1	8
				Rough Terrain Forklifts	2	8
				Cranes	1	8
				Graders	1	8
				Skid Steer Loaders	2	8
				Welders	1	8
				Generator Sets	1	8
				Bore/Drill Rigs	1	8
PG&E Tranquility Switching Station Upgrades	20	2	40	Generator Sets	1	12
				Other General Industrial Equipment	1	4
				Tractors/Loaders/ Backhoes	2	5
				Cranes	1	5
				Rough Terrain Forklifts	2	4
				Aerial Lifts	1	4
				Graders	1	6
				Rubber Tired Dozers	1	3
				Scrapers	1	4
				Rubber Tired Loaders	1	3
				Excavators	1	4
Cleanup/ Testing/	50	6	0	Tractors/Loaders/ Backhoes	1	4

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Restoration				Graders	1	6
				Scrapers	2	6
Decommissioning	40	10	1,232	Tractors/Loaders/ Backhoes	1	8

Notes: See Appendix A for details.

The project would implement dust control strategies in accordance with SJVAPCD Rule 8021. To reflect implementation of proposed dust control strategies, the following was assumed in CalEEMod:

- Water exposed area three times per day (61% reduction in PM_{10} and $PM_{2.5}$).
- Limit onsite unpaved road travel to 25 miles per hour.

The project would implement the following project design features (PDFs) during construction:

PDF-AQ-1 During the demolition, construction, and decommissioning phases of the Project, the Applicant proposes to implement several measures intended to reduce worker exposure to the Coccidioides immitis (C. immitis) fungus that causes Valley Fever. Prior to ground disturbing activities, a Valley Fever Management Plan will be provided to the County and shall include a program to limit the potential for exposure to C. immitis from construction activities and to identify appropriate worker training, dust management and safety procedures that shall be implemented, as needed, to minimize personnel and public exposure to C. immitis. In addition to awareness and recognition training, these measures include performing job hazard assessments (JHAs) for all job classifications employed on site. These JHAs will identify the potential for exposure as well as the appropriate precautions and controls to minimize exposure.

PDF-AQ-2 During the demolition, construction, and decommissioning phases of the Project, the Applicant proposes to utilize Tier 3 equipment or better for excavators, graders, and tractors/loaders/backhoes and Tier 4 Final equipment or better for aerial lifts, air compressors, bore/drill rigs, cement and mortar mixers, concrete/industrial saws, cranes, forklifts, generator sets, pavers, rollers, rubber-tired dozers, rubber-tired loaders, skid steer loaders, trenchers, and welders.

2.4.2.1.1 Ambient Air Quality Assessment

As recommended by the *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015b), an ambient air quality impacts assessment should be performed if any pollutants exceed 100 pounds per day during construction or operation. As discussed in Section 2.5.2, the project would exceed 100 pounds per day for NO_x and CO.

For the initial assessment (Level 1) of the ambient air quality impact analysis, the maximum background concentration for the project site for each pollutant and averaging period combination was added to the corresponding maximum ground level concentration (GLC) from project-related construction (Step 1). The sum of these values was then compared to the corresponding ambient air quality standard. If the incremental increase in concentration from project-related sources did not cause an exceedance of an ambient air quality standard, then the analysis was complete for that source/receptor/pollutant combination. If the incremental increase in concentration from project-related sources caused an exceedance of an ambient air quality standard, then the analysis proceeded to Step 2. Step 2 was similar to Step 1 with one major difference. For this second step, the maximum GLC of each pollutant and averaging period combination were compared to its corresponding Significant Impact Level (SIL). The SIL is used to evaluate whether the project's construction emissions would *contribute* to a violation of an ambient air quality standard, where the background level is close to or exceeds an ambient air quality standard. If the maximum GLC did not exceed the corresponding SIL, then the analysis was complete for that source/receptor/pollutant combination, and no further analysis was required.

For the Level 1 approach, in accordance with SJVAPCD APR-1925, all required criteria pollutants are modeled together, with a normalized emission rate (1 gram per second) for each source. The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. For example, if there is one line volume source with 60 individual volume sources and one line volume sources with 40 individual volume sources, the emission rate in AERMOD would be 0.6 for the line volume source with 60 volume sources and 0.4 for the line volume source with 40 volume sources. This would provide that all individual volume sources would emit 1/100 gram per second and when added together make 1 gram per second. The dispersion modeling was performed using the American Meteorological Society/EPA Regulatory Model (AERMOD), which is the model SJVAPCD requires for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain (EPA 2015). Principal parameters of this Level 1 modeling are presented in Table 7. The AERMOD setup with the line volume sources and receptors are depicted in Figures 3 and 4.

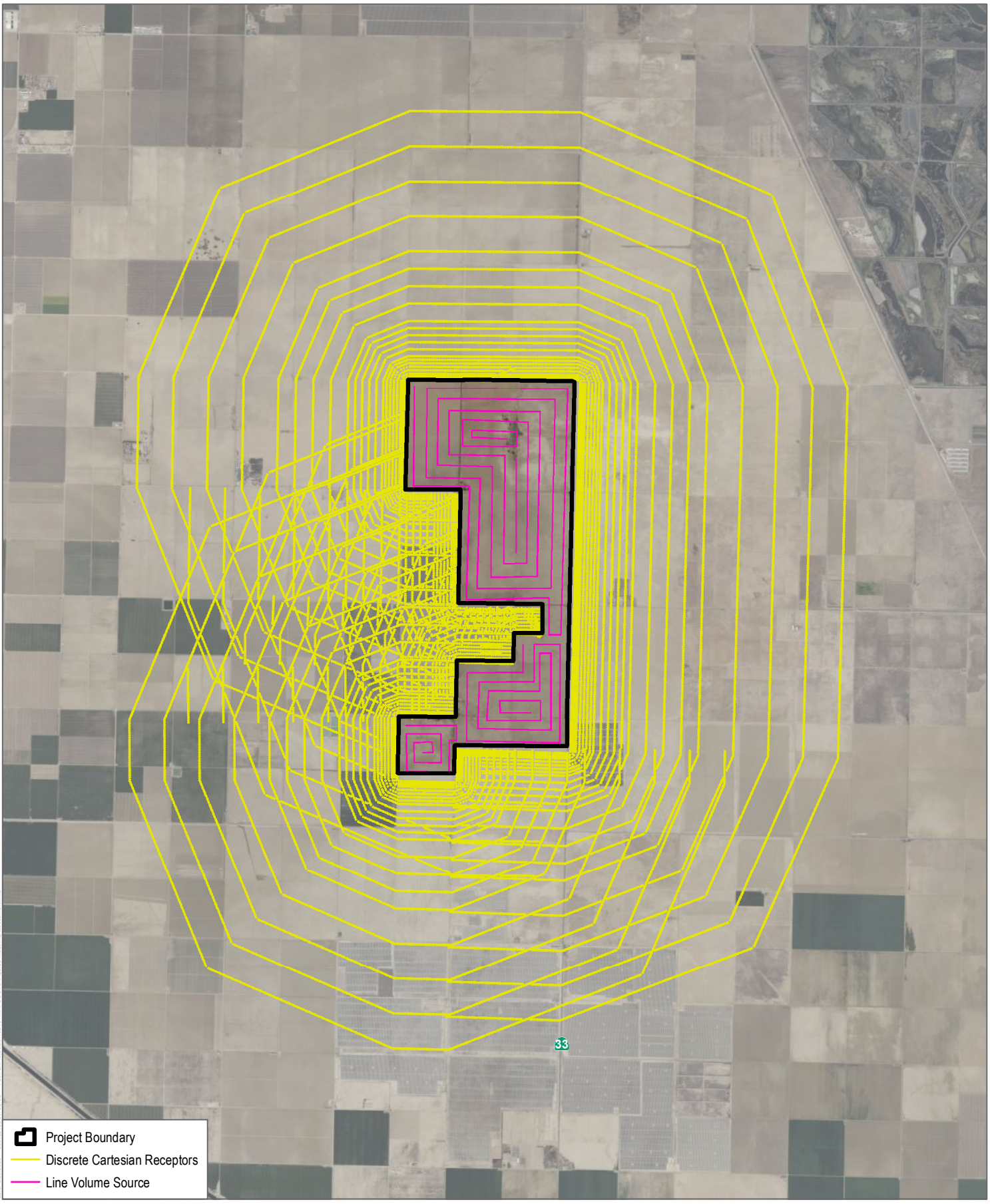
Table 7. AERMOD Principal Parameters – Ambient Air Quality Assessment

Parameter	Details
Meteorological Data	The latest 5-year meteorological data (2007–2011) for the Wasco Station (Station ID 99010) from SJVAPCD were downloaded and then input to AERMOD.
Urban versus Rural Option	Urban areas typically have more surface roughness, as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. However, based on the SJVAPCD guidelines, the rural dispersion option was selected due to the predominant land use surrounding the project.
Terrain Characteristics	The terrain in the vicinity of the modeled project site is generally flat. The elevation of the modeled site is about 212 feet above sea level. Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate.
Elevation Data	Digital elevation data were imported into AERMOD, and elevations were assigned to the emission sources and receptors. Digital elevation data were obtained through AERMOD View in the United States Geological Survey's National Elevation Dataset format with a 30-meter resolution.
Emission Sources and Release Parameters	Air dispersion modeling of pollutants from construction equipment was conducted using emissions estimated using the CalEEMod, assuming emissions would occur 8 hours per day, 5 days per week. The project area was modeled as a series of line-

Table 7. AERMOD Principal Parameters – Ambient Air Quality Assessment

Parameter	Details
	volume sources. Onsite emissions of vehicles were also included, assuming a 0.25-mile travel distance.
Source Release Characterizations	Based on EPA methodology, the modeled line volume sources would result in a release height of 3.4 meters, a plume height of 6.8 meters, and a plume width of 8.6 meters for off-road equipment and diesel trucks (EPA 2015).
Receptors	A telescoping grid of receptors was placed around the project site boundary in the following spacing: 25 meter spacing on the facility boundary; 25 meter spacing from the facility boundary to 100 meters; 50 meter spacing from 100 meters to 250 meters; 100 meter spacing from 250 meters to 500 meters; 250 meter spacing from 500 meters to 1,000 meters; and 500 meter spacing from 1,000 meters to 2,000 meters.

Note: See Appendix B.



SOURCE: Fresno County; Bing Maps

DUDEK

0 0.5 1 Miles

FIGURE 3

Air Quality Impact Assessment Modeling

Heartland Solar Project

2.4.2.1.2 Health Risk Assessment

A construction health risk assessment (HRA) was performed to evaluate potential health risk associated with construction of the Project. The following discussion summarizes the dispersion modeling and HRA methodology; supporting construction HRA documentation, including detailed assumptions, is presented in Appendix C.

For risk assessment purposes, PM_{10} in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on road vehicle exhaust (e.g., heavy-duty diesel trucks). For the construction HRA, the CalEEMod scenario for the Project was adjusted to reduce diesel truck one-way trip distances to 0.25-miles to estimate emissions from truck pass-by at proximate receptors (SJVAPCD 2019).

The air dispersion modeling methodology was based on generally accepted modeling practices of SJVAPCD (SJVAPCD 2022). Air dispersion modeling was performed using the EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 24142 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 13.0.0. The HRA followed the Office of Environmental Health Hazard Assessment (OEHHA) 2015 guidelines (OEHHA 2015) and SJVAPCD guidance to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the SJVAPCD and EPA guidance and identified as representative of the project site activities. Principal parameters of this modeling are presented in Table 8, American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters – Construction HRA.

Table 8. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters – Construction HRA

Parameter	Details
Meteorological Data	The latest 5-year meteorological data (2007–2011) for the Wasco Station (Station ID 99010) from SJVAPCD were downloaded and then input to AERMOD. For cancer or chronic noncancer risk assessments, the average cancer risk of all years modeled was used.
Urban versus Rural Option	Urban areas typically have more surface roughness, as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. However, based on the SJVAPCD guidelines, the rural dispersion option was selected due to the predominant land use surrounding the project.
Terrain Characteristics	The terrain in the vicinity of the modeled project site is generally flat. The elevation of the modeled site is about 212 feet above sea level. Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate.
Elevation Data	Digital elevation data were imported into AERMOD, and elevations were assigned to the emission sources and receptors. Digital elevation data were obtained through AERMOD View in the United States Geological Survey's National Elevation Dataset format with a 30-meter resolution.
Emission Sources and Release Parameters	Air dispersion modeling of PM from construction equipment was conducted using emissions estimated using the CalEEMod and a spreadsheet based model, assuming emissions would occur 8 hours per day, 5 days per week. The project area was modeled as a series of line-volume sources. Onsite emissions of vehicles were also included, assuming a 0.25-mile travel distance.

Table 8. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters – Construction HRA

Parameter	Details
Source Release Characterizations	Based on EPA methodology, the modeled line volume sources would result in a release height of 3.4 meters, a plume height of 6.8 meters, and a plume width of 8.6 meters for off-road equipment and diesel trucks (EPA 2015).
Receptors	Discrete receptors were placed over residences proximate to the Solar and BESS Facility.

Note: See Appendix C.

AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the noncancerous chronic health indices. There is no reference exposure level (REL) for acute health impacts from DPM, and, thus, acute risk was not evaluated.

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum Individual Cancer Risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations. For the construction HRA, the TAC exposure period was assumed to be from third trimester of pregnancy for 18 months for all receptor locations (i.e., the assumed duration of Project construction. The exposure pathway for DPM is inhalation only.

The SJVAPCD has also established noncarcinogenic risk parameters for use in HRAs since some TACs increase noncancerous health risk due to long-term (chronic) exposures and some TACs increase noncancerous health risk due to short-term (acute) exposures. Chronic exposure is evaluated in the construction HRA. Noncarcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or REL, which is a concentration at or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. A hazard index less of than one (1.0) means that adverse health effects are not expected.

2.4.2.2 Operational Emissions

Emissions from the operational phase of the project were estimated using CalEEMod Version 2022.1.1.29. Operational year 2028 was assumed consistent with completion of project construction.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products,

furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2025). Consumer product ROG emissions are estimated in CalEEMod based on the floor area of nonresidential buildings and on the default factor of pounds of ROG per building square foot per day. For parking lot land uses, CalEEMod estimates ROG emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of ROG per square foot per day.

Energy Sources

The operations and maintenance building is assumed to be all-electric. All electricity needs for the operations and maintenance building will come from the Solar Facility. There will be no natural gas use onsite.

Mobile Sources

The project would generate air quality emissions from mobile sources (vehicular traffic) as a result of the employees of the project, maintenance personnel, visitors, deliveries, and shipments. The Solar Facility is anticipated to have up to 16 permanent employees in the operations and maintenance building. CalEEMod default data, trip length, trip modes, fleet mix, and emissions factors were used for the model inputs for the operations and maintenance building. CalEEMod default vehicle emission factors and vehicle fleet mix for 2028, as based on the CARB EMFAC2021 model, were used to estimate emissions associated with vehicular sources.

2.5 Impact Analysis

2.5.1 Would the Project Conflict with or Obstruct Implementation of the Applicable Air Quality Plan?

A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project is conforming if it complies with all applicable SJVAPCD rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). Zoning changes, specific plans, general plan amendments and similar land use plan changes which do not increase dwelling unit density, do not increase vehicle trips, and do not increase vehicle miles traveled are also deemed to comply with the applicable air quality plan (SJVAPCD 2015).

The project would comply with applicable SJVAPCD rules and regulations, such as Regulation VIII (Fugitive PM10 Prohibitions) and IX (Mobile and Indirect Sources) which are discussed in detail in Section 2.2.3.1. The project would not conflict with existing land uses. The Fresno County 2019-2050 Growth Projections forecast shows that there are 69,700 jobs in 2020 and an estimated 78,620 jobs in 2030, for an annual growth rate of 892 jobs (FCOG 2020). The project is estimated to employ up to 16 full-time personnel. As such, the project would not exceed the growth projections in the county.

Unmitigated NOx emissions during construction would not exceed the SJVAPCD significance threshold. During the longer-term operational phase, the project would have routine inspection and maintenance activities that would result in a net increase in emissions although, as discussed in Section 2.5.2, the increase in emissions would not exceed any significance threshold or violate any SJVAPCD rule or regulation.

In summary because the project would offset NOx emissions during construction in compliance with SJVAPCD Rule 9510, the project would result in a **less than significant** impact during construction.

2.5.2 Would the Project Result in a Cumulatively Considerable Net Increase of any Criteria Pollutant for Which the project Region is Non-Attainment Under an Applicable Federal or State Ambient Air Quality Standard?

Past, present, and future development projects may contribute to adverse air quality impacts in the SJVAB on a cumulative basis. By its nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SJVAPCD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used in the determination of whether a project's individual emissions would have a cumulatively considerable contribution on air quality. If a project's emissions would exceed the applied significance thresholds, it would have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

Construction and operation of the project would result in emissions of criteria air pollutants, which may result in a cumulatively considerable net increase in emissions of criteria air pollutants for which the SJVAB is designated as nonattainment under the NAAQS or CAAQS. As discussed in Section 2.3.1, the SJVAB has been designated as a nonattainment area for O_3, PM_{10}, and $PM_{2.5}$ under national and/or California standards. The following discussion quantitatively evaluates potential short-term construction and long-term operational impacts that would result from implementation of the project.

Construction Emissions

Construction of the project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and ROG off-gassing) and off-site sources (i.e., vendor trucks and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

As discussed in Section 2.4.2.1, Construction Emissions, criteria air pollutant emissions associated with temporary construction activity were quantified using CalEEMod. Construction emissions were calculated for the estimated worst-case day over the construction period associated with each phase and reported as the maximum daily emissions estimated during construction (2026-2028). Construction schedule assumptions, including phase type, duration, and sequencing, were based on information provided by the project applicant and are intended to represent a reasonable scenario based on the best information available. Default values provided in CalEEMod were used where detailed project information was not available.

Implementation of the project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, architectural coatings, and asphalt pavement application. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. The project

would implement various dust control strategies and would be required to comply with SJVAPCD Regulation VIII to control dust emissions generated during the grading activities. Proposed construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites and unpaved roads three times per day depending on weather conditions. Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of ROGs, NO_x, CO, PM_{10}, and $PM_{2.5}$. Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts to less than significant for project construction.

Table 9 presents the annual construction emissions generated during construction of the project. Details of the emission calculations are provided in Appendix A.

Table 9. Estimated Construction Criteria Air Pollutant Emissions – Unmitigated

Year	ROG	NOx	CO	SOx	PM10	PM2.5
	Annual Emissions (Tons)					
2026	0.02	0.27	0.72	<0.01	0.09	0.03
2027	0.44	3.97	16.00	0.02	2.49	0.60
2028	0.38	3.35	12.36	0.01	2.26	0.56
2050	0.01	0.26	0.46	<0.01	0.39	0.07
Maximum	**0.44**	**3.97**	**16.00**	**0.02**	**2.49**	**0.60**
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.005.
See Appendix A for complete results.
These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 8021 fugitive dust control strategies, including watering of the project site and unpaved roads twice times per day.
See Appendix A for complete results.

As shown in Table 9, construction emissions would not exceed the SJVAPCD significance thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$; thus, impacts would be **less than significant**. The maximum daily emissions during construction are shown in Table 10.

Table 10. Maximum Daily Construction Criteria Air Pollutant Emissions – Unmitigated

Year	ROG	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
2026	2.10	24.64	79.76	0.10	10.33	2.80
2027	7.47	49.60	285.66	0.19	43.21	10.13
2028	8.29	79.29	285.28	0.26	49.29	12.13
2050	0.15	2.65	5.72	0.02	4.02	0.77
Maximum Daily Emissions	**8.29**	**79.29**	**285.66**	**0.26**	**49.29**	**12.13**
SJVAPCD Threshold	*100*	*100*	*100*	*100*	*100*	*100*
Threshold Exceeded?	**No**	**No**	**Yes**	**No**	**No**	**No**

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.005.
See Appendix A for complete results.
These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 8021 fugitive dust control strategies, including watering of the project site and unpaved roads twice times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour.
See Appendix A for complete results.

As shown in Table 10, the project would exceed the 100 pound per day screening threshold for CO. As such, an ambient air quality assessment is required and provided below.

Construction Ambient Air Quality Impact Assessment

Although the project would not exceed the annual significance threshold established by the SJVAPCD for ROG, SOx, PM_{10}, or $PM_{2.5}$, the project would emit more than 100 pounds of NOx and CO per day during construction. As recommended by the *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015b), an ambient air quality impacts assessment should be performed if any pollutants exceed 100 pounds per day during construction or operation. Maximum daily emissions were used as the basis for determining the project's potential impact on ambient air quality. Summary tables of annual and daily emissions associated with construction are included in Appendix A.

For the initial assessment (Step 1) of the ambient air quality impact analysis, the maximum background concentration for the project site for each pollutant and averaging period combination was added to the corresponding maximum ground level concentration (GLC) from project-related construction. The sum of these values was then compared to the corresponding ambient air quality standard. If the incremental increase in concentration from project-related sources did not cause an exceedance of an ambient air quality standard, then the analysis was complete for that source/receptor/pollutant combination. If the incremental increase in concentration from project-related sources caused an exceedance of an ambient air quality standard, then the analysis proceeded to Step 2. Step 2 was similar to Step 1 with one major difference. For this second step, the maximum GLC of each pollutant and averaging period combination were compared to its corresponding Significant Impact Level (SIL). The SIL is used to evaluate whether the project's construction emissions would *contribute* to a violation of an ambient air quality standard, where the background level is close to or exceeds an ambient air quality standard. If the maximum GLC did not exceed the corresponding SIL, then the analysis was complete for that source/receptor/pollutant combination, and no further analysis was required. The AAQA was performed in accordance with SJVAPCD APR 1925, Policy for District Rule 2201 AAQA Modeling (SJVAPCD 2024). Table 11 presents a summary of the AAQA undertaken to determine whether construction activities associated with the project would cause or contribute to ambient air quality impacts.

Table 11. Construction Level 1 AAQA - Unmitigated

Impact Parameter	Applicable Standard	Project Area Maximum Background Concentration (Years 2019-2021)		Project Contribution (ug/m3)	Cumulative Concentration (ug/m3)	AAQS Threshold (ug/m3)	Step 1 Significance	SIL (ug/m3)	Step 2 Significance
		ppmv	ug/m³						
1-hour CO	State	2.2	2,520	74.31	2,595	22,900	PASS	2000	Step 1
	Federal	2.2	2,520	74.31	2,595	40,100	PASS	2000	Step 1
8-hour CO	State	1.8	2,062	48.42	2,110	10,300	PASS	500	Step 1
	Federal	1.8	2,062	48.42	2,110	10,300	PASS	500	Step 1
1-hour NO_2	State	0.065	122	24.58	147	339	PASS	7.5	Step 1
	Federal	0.065	122	24.58	147	188	PASS	7.5	Step 1
Annual NO_2	State	0.012	23	2.70	25	57	PASS	1	Step 1
	Federal	0.012	23	2.70	25	100	PASS	1	Step 1
1-hour SO_2	State	0.008	21	0.11	21	655	PASS	7.5	Step 1
	Federal	0.008	21	0.11	21	196	PASS	7.8	Step 1
3-hour SO_2	Federal	0.003	7	0.08	7	1,300	Pass	25	Step 1
24-Hour SO_2	State	0.003	8	0.05	8	105	PASS	5	Step 1
	Federal	0.003	8	0.05	8	367	PASS	5	Step 1
Annual SO_2	Federal	0.000	1	0.01	1	79	PASS	1	Step 1
24-hour PM_{10} - Exhaust	State	--	167	0.34	167	50	Step 2	5	PASS
	Federal	--	167	0.34	167	150	Step 2	5	PASS
24-hour PM_{10} - Fugitive	State	--	167	1.11	168	50	Step 2	10.4	PASS
	Federal	--	167	1.11	168	150	Step 2	10.4	PASS
Annual PM_{10} - Exhaust	State	--	44	0.07	44	20	Step 2	1	PASS
Annual PM_{10} - Fugitive	State	--	44	0.23	44	20	Step 2	2.08	PASS
24-hour $PM_{2.5}$ - Exhaust	Federal	--	65	0.31	66	35	Step 2	1.2	PASS
24-hour $PM_{2.5}$ - Fugitive	Federal	--	65	0.24	66	35	Step 2	2.5	PASS
Annual $PM_{2.5}$ - Exhaust	State	--	12.0	0.07	12.07	12	Step 2	0.13	PASS
	Federal	--	12.0	0.07	12.07	9	Step 2	0.13	PASS
Annual $PM_{2.5}$ - Fugitive	State	--	12.0	0.05	12.05	12	Step 2	0.63	PASS
	Federal	--	12.0	0.05	12.05	9	Step 2	0.63	PASS

Source: See Appendix B.

As shown in Table 11, the unmitigated construction emissions would not exceed the AAQS or applicable SILs. As such, the project would result in a less than significant impact and would not exceed applicable AAQS.

Operational Emissions

Operation of the project would generate ROG, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from mobile sources, including vehicle trips from passenger vehicles and heavy-duty trucks; and area sources, including the use of consumer products. Table 12 presents the annual area and mobile emissions associated with operation (year 2028) of the project. Details of the emission calculations are provided in Appendix A.

Table 12. Estimated Annual Operational Criteria Air Pollutant Emissions – Unmitigated

Emission Source	ROG	NOx	CO	SOx	PM10	PM2.5
	Tons Per Year					
Area	0.01	-	-	-	-	-
Mobile	0.01	0.01	0.15	<0.01	0.05	0.01
Total	**0.02**	**0.01**	**0.15**	**<0.01**	**0.05**	**0.01**
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.005; - = no emissions.
See Appendix A for complete results.
Totals may not sum due to rounding.

As shown in Table 12, the combined annual area and mobile source emissions would not exceed the SJVAPCD's operational thresholds for ROG, NOx, CO, SO_x, PM_{10}, and $PM_{2.5}$. As such, impacts would be **less than significant**.

The SJVAPCD recommends that an Ambient Air Quality Assessment be performed when on-site emissions of any criteria pollutant would equal or exceed any applicable threshold of significance for criteria pollutants or 100 pounds per day of any criteria pollutant (SJVAPCD 2015a). The results of the screening analysis are presented in Table 13.

Table 13. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions – Unmitigated

Source	ROG	NOx	CO	SOx	PM10	PM2.5
	Pounds Per Day					
Area	0.07	-	-	-	-	-
Mobile	0.09	0.02	0.32	<0.01	0.01	<0.01
Total	**0.16**	**0.02**	**0.32**	**<0.01**	**0.01**	**<0.01**
SJVAPCD Threshold	*100*	*100*	*100*	*100*	*100*	*100*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.005; - = no emissions.
See Appendix A for complete results.
The values shown are the maximum summer or winter daily emissions results from CalEEMod. These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 8021 including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour.

As indicated in Table 13, the project would not exceed 100 pounds per day on site for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$ during operation; therefore, the project would not require an ambient air quality assessment during operation.

Health Effects

Project construction and operation would not exceed SJVAPCD thresholds for ROG, NOx, CO, SO_x, $PM_{10,}$ or $PM_{2.5}$. ROGs and NO_x are precursors to O_3, for which the SJVAB is designated as nonattainment with respect to the NAAQS and CAAQS. The health effects associated with O_3 are generally associated with reduced lung function. The contribution of ROGs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SJVAB due to O_3 precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the ROG emissions would occur because exceedances of the O_3 CAAQS/NAAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O_3 precursors is speculative due to the lack of quantitative methods to assess this impact. Since construction and operation of the project would not exceed the SJVAPCD threshold for ROG or NO_x, implementation of the project would not contribute to regional O_3 concentrations and the associated health effects.

Operation of the project would not contribute to exceedances of the NAAQS and CAAQS for NO_2. Health effects that result from NO_2 and NO_x include respiratory irritation, which could be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. However, project construction would be relatively short term, and off-road construction equipment would be operating at various portions of the site and would not be concentrated in one portion of the site at any one time. In addition, existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards. Due to the project not exceeding thresholds of NO_x, the project would not result in potential health effects associated with NO_2 and NO_x.

CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots was discussed previously and was determined to be a less-than-significant impact. Furthermore, the existing CO concentrations in the area are well below the NAAQS and CAAQS standards. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant.

Construction and operation of the project would also not exceed thresholds for PM_{10} or $PM_{2.5}$ and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter or obstruct the SJVAB from coming into attainment for these pollutants. The project would also not result in substantial DPM emissions during construction and operation, and therefore, would not result in significant health effects related to DPM exposure. Additionally, the project would implement dust control strategies and be required to comply with SJVAPCD Regulation VIII, which limits the amount of fugitive dust generated during construction. Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts. Due to the minimal contribution of particulate matter during construction and operation, the project is not anticipated to result in health effects associated with PM_{10} or $PM_{2.5}$.

In summary, because construction and operation of the project would not result in exceedances of the SJVAPCD significance thresholds, the potential health effects associated with criteria air pollutants, are considered **less than significant**. Notably, there are numerous scientific and technological complexities associated with correlating criteria

air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days, and there are currently no modeling tools that could provide reliable and meaningful additional information regarding health effects from criteria air pollutants generated by individual projects.

2.5.3 Would the Project Expose Sensitive Receptors to Substantial Pollutant Concentrations?

Health Impacts of Carbon Monoxide

As described previously, exposure to high concentrations of CO can result in dizziness, fatigue, chest pain, headaches, and impairment of central nervous system functions. Mobile-source impacts, including those related to CO, occur essentially on two scales of motion. Regionally, project-related construction travel would add to regional trip generation and increase the vehicle miles traveled within the local airshed and the SJVAB. Locally, construction traffic would be added to the roadway system in the vicinity of the project Site. Although the SJVAB is currently an attainment area for CO, there is a potential for the formation of microscale CO "hotspots" to occur immediately around points of congested traffic. Hotspots can form if such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles cold-started and operating at pollution-inefficient speeds, and/or is operating on roadways crowded with non-project traffic. Because of continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SJVAB is steadily decreasing.

The SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts states that a quantitative CO hotspots analysis be performed if either of the following two conditions exist: (1) a traffic study for the project indicates that the level of service (LOS) on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F, or (2) a traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project vicinity (SJVAPCD 2015). The project would cause a temporary increase in traffic during the 18-month construction period. However, the project would only result in 38 additional daily trips during operation. Therefore, the project would not materially contribute to the local traffic or impact local intersections level of service. As such, impacts to sensitive receptors with regard to potential CO hotspots resulting from the project's contribution to cumulative traffic-related air quality impacts would be **less than significant**.

Health Impacts of Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (immediate) and/or chronic (cumulative) non-cancer health effects. A toxic substance released into the air is considered a toxic air contaminant (TAC). Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and non-carcinogenic effects. Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Non-carcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics

"Hot Spots" Information and Assessment Act, Assembly Bill 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere.

As discussed in Section 2.4.2.1.2, a construction HRA was performed to estimate the Maximum Individual Cancer Risk and the Chronic Hazard Index for proximate sensitive receptors as a result of project construction. Results of the construction HRA are presented in Table 14, Construction Health Risk Assessment Results – Unmitigated.

Table 14. Construction Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	0.4	20	Less than Significant
Chronic Hazard Index – Residential	Index Value	0.0003	1.0	Less than Significant

Source: SJVAPCD 2015.
Note: CEQA = California Environmental Quality Act.
See Appendix C.

As shown in Table 14, project construction activities would result in a Residential Maximum Individual Cancer Risk of 0.4 in 1 million, which is less than the significance threshold of 20 in 1 million. Project construction would result in a Residential Chronic Hazard Index of 0.0003, which is below the 1.0 significance threshold. The project construction TAC health risk impacts would be less than significant.

During operation, the project would not emit TAC emissions in substantial quantities as the operational emissions would consist of area source emissions from consumer products and from employees commuting, the majority of those emissions are offsite. As such, impacts would be **less than significant**.

Valley Fever

The project Site is located in an area where there is a high risk of Valley Fever, a fungal-borne disease. The disease is caused by inhalation of dust containing the Coccidioides immitis, a fungal spore. Most people who are exposed have no or very mild systems; however, in a small percentage of the population, it can generate more serious systems of meningitis, pneumonia, or chronic fatigue. As discussed in Section 2.1.2.2, the average incidence rate of Valley Fever within the County is above the statewide average. Construction of the project would comply with SJVAPCD Regulation VIII (Fugitive PM_{10} Prohibition), which requires fugitive dust sources to implement best available control measures for all sources and prohibits all forms of visible particulate matter from crossing any property line. SJVAPCD Regulation VIII is intended to reduce PM_{10} emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust. The nearest sensitive-receptor land use (existing residence) is located 80 feet from the project site. Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would control the release of the *Coccidioides immitis* fungus during construction activities. Construction workers have increased risk of exposure, since this job results in the disturbance of soils where fungal spores are found. Valley Fever infection rates are highest in California from June to November, and the illness is endemic in Fresno County. Therefore, a risk of Valley Fever infection exists for construction personnel working on the project in the peak summer and fall months. However, the project would implement **PDF-AQ-1** which would require the preparation off a Valley Fever Management Plan and put in place measures to reduce exposure to C. immitis. Therefore, the project would have a **less than significant** impact with respect to valley fever exposure for sensitive receptors.

2.5.4 Would the Project Result in Other Emissions (Such as those Leading to Odors) Adversely Affecting a Substantial Number of People?

The analysis of the project's potential to result in other emissions is focused on potential odor impacts. The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The project would consist of the solar facility, BESS, and operations and maintenance building. There would be no sources onsite that are associated with odor complaints. Therefore, project operations would result in an odor impact that is **less than significant.**

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3 Greenhouse Gas Emissions

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (i.e., decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2017a).

The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process as follows: Short-wave radiation emitted by the Sun is absorbed by the Earth, the Earth emits a portion of this energy in the form of long-wave radiation, and GHGs in the upper atmosphere absorb this long-wave radiation and emit it into space and toward the Earth. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature and creates a pleasant, livable environment on the Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-twentieth century and is the most significant driver of observed climate change (IPCC 2013; EPA 2017a). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system, which is discussed further in Section 3.3.2, Potential Effects of Climate Change.

3.1.2 Greenhouse Gases

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code, Section 38505(g), for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3). (See also CEQA Guidelines, Section 15364.5.) Some GHGs, such as CO_2, CH_4, and N_2O, occur naturally and are emitted into the atmosphere through natural processes and human activities. Of these gases, CO_2 and CH_4 are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much

greater heat-absorption potential than CO_2, include fluorinated gases, such as HFCs, PFCs, and SF_6, which are associated with certain industrial products and processes. The following paragraphs provide a summary of the most common GHGs and their sources.[8]

Carbon Dioxide. CO_2 is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO_2 include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO_2 are from the combustion of fuels such as coal, oil, natural gas, and wood and changes in land use.

Methane. CH_4 is produced through both natural and human activities. CH_4 is a flammable gas and is the main component of natural gas. Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

Nitrous Oxide. N_2O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N_2O. Sources of N_2O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and using N_2O as a propellant (e.g., rockets, racecars, and aerosol sprays).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric ozone-depleting substances (e.g., CFCs, HCFCs, and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to ozone-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, with HFCs, to the ozone depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF_6 is a colorless gas soluble in alcohol and ether and slightly soluble in water. SF_6 is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** NF_3 is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

[8] The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), CARB's "Glossary of Air Pollution Terms" (2016a), and EPA's "Glossary of Climate Change Terms" (2016e).

Chlorofluorocarbons. CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere) and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O_3.

Hydrochlorofluorocarbons. HCFCs are a large group of compounds, whose structure is very close to that of CFCs—containing hydrogen, fluorine, chlorine, and carbon atoms—but including one or more hydrogen atoms. Like HFCs, HCFCs are used in refrigerants and propellants. HCFCs were also used in place of CFCs for some applications; however, their use in general is being phased out.

Black Carbon. Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential. DPM emissions are a major source of black carbon and are TACs that have been regulated and controlled in California for several decades to protect public health. In relation to declining DPM from the California Air Resources Board's (CARB's) regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014a).

Water Vapor. The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.

Ozone. Tropospheric O_3, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O_3, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O_2), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O_3, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

Aerosols. Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2016d). The Intergovernmental Panel on Climate Change (IPCC) developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons of CO_2 equivalent (MT CO_2e).

The current version of CalEEMod (version 2022.1.1.29) assumes that the GWP for CH_4 is 25 (so emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the IPCC Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the project.

3.2 Regulatory Setting

3.2.1 Federal Regulations

West Virginia et al v. U.S. Environmental Protection Agency

On June 30, 2022, the Supreme Court issued its opinion in West Virginia v. U.S. Environmental Protection Agency, invalidating the 2015 Obama-era Clean Power Plan (CPP). *The ruling held that Section 111(d) of the Clean Air Act does not authorize EPA to devise emissions caps based on "generation shifting"—the approach EPA took in the CPP wherein power plants would be required to transition from higher-emitting (e.g., coal) to lower-emitting (e.g., natural-gas) to then even lower-emitting (e.g., wind and solar) electricity production.* The Obama administration promulgated the CPP to establish limits on CO_2 emissions from power plants, creating a scheme geared toward shifting the generation of electricity from steam-generating units to natural gas-fired units, and from fossil-fuel fired units to renewable energy sources. The Supreme Court's ruling will constrain EPA's ability to regulate carbon emissions from the power sector by agency rulemaking, and the Court's assertion of the major questions doctrine will have a lasting impact on the administrative state.

Massachusetts v. U.S. Environmental Protection Agency

On April 2, 2007, in *Massachusetts v. U.S. Environmental Protection Agency*, the U.S. Supreme Court ruled that CO_2 was a pollutant and directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the EPA administrator is required to follow the language of Section 202(a) of the Clean Air Act. On December 7, 2009, the administrator signed a final rule with two distinct findings regarding GHGs under Section 202(a) of the Clean Air Act:

- The elevated concentrations of GHGs—CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations. This is referred to as the "endangerment finding."
- The combined emissions of GHGs—CO_2, CH_4, N_2O, and hydrofluorocarbons—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is referred to as the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the Clean Air Act.

Energy Independence and Security Act

On December 19, 2007, President George W. Bush signed the Energy Independence and Security Act of 2007. Among other key measures, the act would do the following to aid in the reduction of national GHG emissions:

1. Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel by 2022.
2. Set a target of 35 miles per gallon (mpg) for the combined fleet of cars and light trucks by model year 2020 and direct the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
3. Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

EPA and National Highway Traffic Safety Administration Joint Final Rule for Vehicle standards

In response to the U.S. Supreme Court ruling discussed above, the Bush Administration issued Executive Order (EO) 13432 in 2007 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the National Highway Traffic Safety Administration (NHTSA) issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011; and, in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016 (75 FR 25324–25728).

In 2010, President Obama issued a memorandum directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021 (77 FR 62624–63200). On January 12, 2017, EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks (EPA 2017b).

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO_2 emissions by approximately 1.1 billion MT and reduce oil consumption by up to two billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

In August 2018, EPA and NHTSA proposed to amend certain fuel economy and GHG standards for passenger cars and light trucks and establish new standards for model years 2021 through 2026. Compared to maintaining the post-2020 standards now in place, the 2018 proposal would increase U.S. fuel consumption by about half a million barrels per day (2%–3% of total daily consumption, according to the Energy Information Administration) and would impact the global climate by 3/1000th of one degree Celsius by 2100 (EPA and NHTSA 2018). California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives. Thus, the timing and consequences of the 2018 federal proposal are speculative at this time.

In 2019, the EPA and NHTSA published the Safer Affordable Fuel-Efficient Vehicles Rule Part One: One National Program (SAFE-1) (84 Fed. Reg. 51310), which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle (ZEV) mandates in California. In March 2020, Part Two was issued which set CO_2 emissions standards and corporate average fuel economy standards for passenger vehicles and light-duty trucks for model years 2021 through 2026. In March 2022, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards and ZEV sales mandate. EPA's action concludes its reconsideration of the 2019 SAFE-1 rule by finding that the actions taken under the previous administration as a part of SAFE-1 were decided in error and are now entirely rescinded.

3.2.2 State Regulations

The State has taken a number of actions to address climate change. These include EOs, legislation, and CARB plans and requirements. These are summarized as follows.

EO S-3-05

EO S-3-05 (June 2005) established California's GHG emissions reduction targets and laid out responsibilities among the State agencies for implementing the EO and for reporting on progress toward the targets. This EO established the following targets:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80% below 1990 levels

AB 32

In furtherance of the goals established in EO S-3-05, the Legislature enacted AB 32 (Núñez and Pavley). The bill is referred to as the California Global Warming Solutions Act of 2006 (September 27, 2006). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California's GHG emissions at 1990 levels by 2020 and initiate the transformations required to achieve the State's long-range climate objectives.

SB 32 and AB 197

SB 32 and AB 197 (enacted in 2016) are companion bills. SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that Statewide GHG emissions are reduced to 40% below 1990 levels by 2030.

CARB's Climate Change Scoping Plan

One specific requirement of AB 32 is for CARB to prepare a "scoping plan" for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (Health and Safety Code, Section 38561(a)), and to update the plan at least once every 5 years. In 2008, CARB approved the first scoping plan. The *Climate Change Scoping Plan: A Framework for Change* (*Scoping Plan*) included a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 Statewide GHG emission limit and initiate the transformations needed to achieve the State's long-range climate objectives.

In 2014, CARB approved the first update to the Scoping Plan. The *First Update to the Climate Change Scoping Plan: Building on the Framework* (*First Update)* defined the State's GHG emission reduction priorities for the next 5 years and laid the groundwork to start the transition to the post-2020 goals set forth in EOs S-3-05 and B-16-2012 (discussed below). The *First Update* concluded that California is on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions (CARB 2014a).

In 2015, as directed by EO B-30-15, CARB began working on an update to the Scoping Plan to incorporate the 2030 target of 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05.

In December 2017, CARB adopted the *2017 Climate Change Scoping Plan Update (2030 Scoping Plan)* (CARB 2017). The 2030 Scoping Plan builds on the successful framework established in the initial Scoping Plan and First Update, while identifying new, technologically feasible and cost-effective strategies that will serve as the framework to achieve the 2030 GHG target and define the State's climate change priorities to 2030 and beyond.

The Scoping Plan recommends strategies for implementation at the Statewide level to meet the goals of AB 32, SB 32, and the EOs and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. A project is considered consistent with the statutes and EOs if it meets the general policies in reducing GHG emissions to facilitate the achievement of the State's goals and does not impede attainment of those goals. As discussed in several cases, a given project need not be in perfect conformity with each and every planning policy or goals to be consistent. A project would be consistent, if it will further the objectives and not obstruct their attainment. CARB adopted the 2022 Scoping Plan Update on December 15, 2022, which assesses progress towards achieving the SB 32 2030 target and lays out a path to achieve carbon neutrality by 2050.

EO B-55-18

EO B-55-18 (September 2018) establishes a Statewide policy for California to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net-negative emissions thereafter. The goal is an addition to the existing Statewide targets of reducing the State's GHG emissions. CARB will work with relevant State agencies to ensure that future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal.

Building Energy

Title 24, Part 6

Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California's building standards. While not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established Building Energy Efficiency Standards that are designed to ensure new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These regulations are carefully scrutinized and analyzed for technological and economic feasibility (California Public Resources Code, Section 25402(d)) and cost effectiveness (California Public Resources Code, Sections 25402(b)(2) and (b)(3)). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment.

The current Title 24 standards are the 2019 Title 24 Building Energy Efficiency Standards, which became effective January 1, 2020. In general, single-family residences built to the 2019 standards are anticipated to use approximately 7% less energy due to energy efficiency measures than those built to the 2016 standards; once rooftop solar electricity generation is factored in, single-family residences built under the 2019 standards will use approximately 53% less energy than those under the 2016 standards (CEC 2018a). Nonresidential buildings built to the 2019 standards are anticipated to use an estimated 30% less energy than those built to the 2016 standards (CEC 2018a).

On August 11, 2021, the CEC adopted the 2022 Building Energy Efficiency Standards (Energy Code). In December 2021, the 2022 Energy Code was approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code. Under the 2022 amendments, California buildings would consume approximately 198,600 GWh of electricity and 6.14 billion therms of fossil fuel natural gas in 2023 compared to approximately 199,500 GWh and 6.17 billion therms of electricity and fossil fuel natural gas, respectively, under the 2019 Energy Code (CEC 2021). On a statewide basis throughout 2023, all measures for newly constructed buildings and altered components of existing buildings collectively would save approximately 33 million therms of fossil fuel natural gas and 1.3 billion kWh of electricity (CEC 2021).

Title 24, Part 11

In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as CALGreen and establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The 2019 CALGreen standards are the current applicable standards. For nonresidential projects (which the residential portion of the project is subject to), some of the key mandatory CALGreen 2019 standards involve requirements related to bicycle parking, designated parking for clean air vehicles, electric vehicle (EV) charging stations, shade trees, water conserving plumbing fixtures and fittings, outdoor potable water use in landscaped areas, recycled water supply systems, construction waste management, excavated soil and land clearing debris, and commissioning (24 CCR Part 11).

Title 20

Title 20 of the California Code of Regulations requires manufacturers of appliances to meet State and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards.

Renewable Energy and Energy Procurement

SB 1078, EO-14-08, SBX1-2, SB 350, and SB 100

SB 1078 (Sher) (September 2002) established the Renewable Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. EO S-14-08 (November 2008) required that all retail suppliers of electricity in California serve

33% of their load with renewable energy by 2020. SB X1 2 expanded the RPS by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. SB 350 (October 2015) further expanded the RPS by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. SB 100 (2018) increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the State that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. On April 30, 2022, California supplied 100% of its statewide demand with renewables at 2:45 pm (Electrek 2022).

Mobile Sources

State Vehicle Standards (AB1493 and EO B-16-12)

AB 1493 (July 2002) was enacted in a response to the transportation sector accounting for more than half of California's CO_2 emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the State board to be vehicles that are primarily used for noncommercial personal transportation in the State. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. EO B-16-12 (March 2012) required that State entities under the governor's direction and control support and facilitate the rapid commercialization of zero-emissions vehicles. It ordered CARB, CEC, California Public Utilities Commission, and other relevant agencies to work with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve benchmark goals by 2015, 2020, and 2025. On a Statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare. As explained under the "Federal Vehicle Standards" description above, EPA and NHTSA approved the SAFE Vehicles Rule Part One and Two, which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. As President Biden issued EO 13990 to review Part One and Part Two of the SAFE Vehicles Rule, this analysis continues to utilize the best available information at this time, as set forth in EMFAC and assumed in CalEEMod.

Heavy Duty Diesel (Title 13, Division 3, Chapter 1, Section 2025)

CARB adopted the final Heavy-Duty Truck and Bus Regulation, Title 13, Division 3, Chapter 1, Section 2025, on December 31, 2014, to reduce particulate matter and NO_x emissions from heavy-duty diesel vehicles. The rule requires particulate matter filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxic Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (13 CCR 2485).

ES S-1-07

EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining low carbon fuel standard (LCFS) for GHG emissions measured in CO_2e grams per unit of fuel energy sold in California. The initial target of the LCFS was to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (17 CCR 95480 et seq.). In September 2018, CARB approved amendments for the LCFS that require a 20% reduction in carbon intensity by year 2030.

SB 375

SB 375 (Steinberg) (September 2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 requires CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035 and to update those targets every 8 years. SB 375 requires the State's 18 regional metropolitan planning organizations (MPOs) to prepare a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan (RTP) that will achieve the GHG reduction targets set by CARB.

Advanced Clean Cars Program and Zero-Emissions Vehicle Program

The Advanced Clean Cars (ACC) I program (January 2012) is an emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package of regulations: the Low-Emission Vehicle (LEV) regulation for criteria air pollutant and GHG emissions and a technology forcing regulation for zero-emission vehicles (ZEV) that contributes to both types of emission reductions (CARB 2021b). The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars. To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75 percent less smog-forming pollution than the average new car sold in 2015 (CARB 2021b). The ZEV program will act as the focused technology of the ACC I program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid EVs in the 2018 to 2025 model years.

The ACC II program is currently in development to establish the next set of LEV and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality ozone standards and California's carbon neutrality standards (CARB 2021b). The main objectives of ACC II are:

1. Maximize criteria and GHG emission reductions through increased stringency and real-world reductions.
2. Accelerate the transition to ZEVs through both increased stringency of requirements and associated actions to support wide-scale adoption and use.

An ACC II rulemaking package, which will consider technological feasibility, environmental impacts, equity, economic impacts, and consumer impacts, is anticipated to be presented to CARB for consideration in August 2022.

AB 1236

AB 1236 (October 2015) required a city, county, or city and county to approve an application for the installation of EV charging stations, as defined, through the issuance of specified permits, unless the city or county makes specified written findings based upon substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, and there is no feasible method to satisfactorily mitigate or avoid the specific, adverse impact. The bill provided for appeal of that decision to the planning commission, as

specified. The bill provided that the implementation of consistent Statewide standards to achieve the timely and cost-effective installation of EV charging stations is a matter of Statewide concern. The bill required EV charging stations to meet specified standards.

EO-79-20

EO N-79-20 (September 2020) requires CARB to develop regulations as follows: (1) Passenger vehicle and truck regulations requiring increasing volumes of new ZEVs sold in the State towards the target of 100% of in-State sales by 2035; (2) medium- and heavy-duty vehicle regulations requiring increasing volumes of new zero-emission trucks and buses sold and operated in the State towards the target of 100% of the fleet transitioning to zero-emission vehicles by 2045 everywhere feasible and for all drayage trucks to be zero emission by 2035; and (3) strategies, in coordination with other State agencies, the EPA and local air districts, to achieve 100% zero-emissions from off-road vehicles and equipment operations in the State by 2035. EO N-79-20 called for the development of a Zero-Emissions Vehicle Market Development Strategy, which was released February 2021, to be updated every 3 years, that ensures coordination and implementation of the EO and outlines actions to support new and used ZEV markets. In addition, the EO specifies identification of near-term actions, and investment strategies, to improve clean transportation, sustainable freight, and transit options; and calls for development of strategies, recommendations, and actions by July 15, 2021, to manage and expedite the responsible closure and remediation of former oil extraction sites as the State transitions to a carbon-neutral economy.

Advanced Clean Trucks (ACT) Regulation

The purpose of the ACT Regulation (June 2020) is to accelerate the market for zero-emission vehicles in the medium- and heavy-duty truck sector and to reduce emissions NO_x, fine particulate matter, TACs, GHGs, and other criteria pollutants generated from on-road mobile sources (CARB 2021c). Requiring medium- and heavy-duty vehicles to transition to zero-emissions technology will help California meet established near- and long-term air quality and climate mitigation targets.

Water

EO B-29-15

In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a Statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the State.

EO B-37-16

Issued May 2016, EO B-37-16 directed the State Water Resources Control Board (SWRCB) to adjust emergency water conservation regulations through the end of January 2017 to reflect differing water supply conditions across the State. The SWRCB also developed a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The SWRCB and Department of Water Resources will develop new, permanent water use targets that build upon the existing State law requirements that the State achieve 20% reduction in urban water usage by 2020. EO B-37-16 also specifies that the SWRCB permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes;

washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.

EO N-10-21

In response to a state of emergency due to severe drought conditions, EO N-10-21 (July 2021) called on all Californians to voluntarily reduce their water use by 15% from their 2020 levels. Actions suggested in EO N-10-21 include reducing landscape irrigation, running dishwashers and washing machines only when full, finding and fixing leaks, installing water-efficient showerheads, taking shorter showers, using a shut-off nozzle on hoses, and taking cars to commercial car washes that use recycled water.

EO N-7-22

On March 28, 2022, Governor Newsom directed the State Water Board to consider adopting emergency regulations focused on urban water suppliers under EO N-7-22. If adopted, the potential regulations would require the vast majority of urban water suppliers to enact Level 2 of their water shortage contingency plans. Those plans are developed by the suppliers and provide actions they will take if their water supplies are cut to certain levels. Here, Level 2 would represent the suppliers acting as if their water supply had been reduced by 20%. The executive order also directs the State Water Board to consider adopting emergency regulations defining "non-functional turf" by May 25, 2022. Both the executive order and corresponding press release confirm that the definition should only apply to ornamental turf that is not functional, excluding turf such as school fields, sports fields and parks from the definition. If the definition is adopted, the State Water Board must then consider banning irrigation of the non-functional turf in the commercial, industrial and institutional sectors (with limited exceptions). The proposed ban is anticipated to save several hundred thousand acre-feet of water per year.

Solid Waste

AB 939, AB 341, AB 1826, and SB 1383

In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code, Sections 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by the year 2000. AB 341 (Chapter 476, Statutes of 2011) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the State that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. SB 1383 (Chapter 395, Statutes of 2016) establishes targets to achieve a 50% reduction in the level of the Statewide disposal of organic waste from the 2014 level by 2020 and a 75% reduction by 2025. CalRecycle was granted the regulatory authority required to achieve the organic waste disposal reduction targets and establishes an additional target that not less than 20% of currently disposed edible food is recovered for human consumption by 2025 (CalRecycle 2019).

3.2.3 Local Regulations

3.2.3.1 San Joaquin Valley Air Pollution Control District

The SJVAPCD does not regulate GHG emissions directly through its permitting responsibilities for stationary sources. Thus, there are no SJVAPCD rules or regulations related to GHGs. The SJVAPCD, however, effects reductions of GHGs from new and modified stationary sources when acting as a lead agency for CEQA. The SJVAPCD implements its GHG policies and reviews whether new or modified stationary sources will implement best performance standards (BPS).

In 2009, the SJVAPCD developed an internal policy and guidance for local land use agencies to use in evaluating GHG impacts under CEQA. In the *Final Staff Report – Addressing GHG Emissions Impacts under the California Environmental Quality Act* (SJVAPCD 2009b), the SJVAPCD reviewed potential GHG significance thresholds and approaches suggested by or adopted by the following entities, ranging from quantification of a project's GHG impacts without a recommended significance threshold to a zero threshold to specific significance thresholds for different kinds of projects (e.g., residential, mixed use, industrial, plans).[9] The following discussion summarizes the SJVAPCD's conclusions about various categories of GHG significance thresholds.

Zero Threshold. The SJVAPCD concluded that "although a zero threshold is appealing in its simplicity; execution of a zero threshold would be difficult or impossible" (SJVAPCD 2009b). Furthermore, the SJVAPCD found that projects that could not reduce their emissions to zero would require preparation of an environmental impact report and adoption of a statement of overriding consideration by the lead agency. Potentially, projects could choose to relocate to a region with a less stringent threshold, so-called "leakage" that would still result in GHG emissions outside the SJVAPCD. Finally, the SJVAPCD noted that CARB concluded that zero thresholds are not mandated because some level of GHG emissions is still consistent with climate stabilization and other regulatory programs will result in GHG reductions. For these reasons, the SJVAPCD did not support a zero threshold. Accordingly, a zero threshold was not selected as an appropriate GHG/climate change threshold for this assessment.

Non-zero Quantitative Thresholds. As indicated previously, the SJVAPCD reviewed numerous quantitative thresholds adopted or proposed by other air districts and organizations, including "mass of GHG emissions generate per unit of activity, GHG emissions per capita per unit basis, and percent reduction compared to Business-as-Usual" (SJVAPCD 2009b). While a tiered approach was evaluated, with the final tier incorporating a quantitative threshold, the SJVAPCD concluded that "without supporting scientific information, establishment of tier trigger levels could be argued to be arbitrary, and District staff does not believe the available science supports establishing a bright-line threshold, above which emissions are significant and below which they are not" (SJVAPCD 2009b).

Best Performance Standards. The SJVAPCD evaluated performance-based standards, which would state "in quantifiable terms the level and extent of the attribute necessary to reach a goal or objective (SJVAPCD 2009b). The SJVAPCD considered a project achieving the performance-based standard or mitigating GHG emissions to an equivalent emission reduction level would be considered to have a less-than-significant cumulative impact on

[9] These documents encompassed the primary approaches for establishing significance thresholds in the period prior to the March 18, 2010 effective date of revisions of the CEQA Guidelines in accordance with SB 97. Additional guidance regarding assessment of GHG impacts were provided in the revised CEQA Guidelines and accompanying *Final Statement of Reasons for Regulatory Action – Amendments to the State CEQA Guidelines Addressing Analysis and Mitigation of Greenhouse Gas Emissions Pursuant to SB97* (CNRA 2009a). In addition, the California appellate courts and the Supreme Court have more recently considered CEQA cases and, in some cases, issued published decisions that provide additional direction regarding the appropriateness of certain GHG assessment methodologies and significance thresholds.

climate change. In conclusion, the SJVAPCD found that the state's GHG emission reduction target would be accomplished by achieving a 29% reduction from business-as-usual (BAU) and that this achieving this reduction would be a "de facto" performance-based standard for GHG emission reductions.

On December 17, 2009, the SJVAPCD Governing Board adopted *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New projects under CEQA* (SJVAPCD 2009c). The guidance recommends the following hierarchy for evaluating a project's impact with respect to its GHG emissions:

- projects complying with an approved GHG emission reduction plan or GHG mitigation program, which avoids or substantially reduces GHG emissions within the geographic area in which the project is located would be determined to have a less-than-significant individual and cumulative impact for GHG emissions. Such plans or programs must be specified in law or approved by the lead agency with jurisdiction over the affected resource and supported by a CEQA compliant environmental review document adopted by the lead agency. projects complying with an approved GHG emission reduction plan or GHG mitigation program would not be required to implement BPS.
- projects implementing BPS would not require quantification of project specific GHG emissions.[10] Consistent with the CEQA Guidelines, such projects would be determined to have a less-than-significant individual and cumulative impact for GHG emissions.
- projects not implementing BPS would require quantification of project-specific GHG emissions and demonstration that project-specific GHG emissions would be reduced or mitigated by at least 29%, compared to BAU, including GHG emission reductions achieved since the 2002–2004 baseline period. projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less-than-significant individual and cumulative impact for GHG (SJVAPCD 2009c).
- For development projects, BPS would include project design elements, land use decisions, and technologies that reduce GHG emissions. While the SJVAPCD has adopted BPS for several types of stationary sources (e.g., boilers), it has not developed BPS for land development projects. projects implementing any combination of BPS, and/or demonstrating a total 29% reduction in GHG emissions from BAU, would be determined to have a less-than-significant individual and cumulative impact on global climate change (SJVAPCD 2015a).

3.2.3.2 Fresno Council of Governments

SB 375 requires MPOs to prepare an SCS in their RTP. The FCOG developed the 2022 RTP/SCS as the region's strategy to fulfill the requirements of SB 375. The 2022 RTP establishes a development pattern for the region that, when integrated with the transportation network and other policies and measures, would reduce GHG emissions from transportation (excluding goods movement). Specifically, the 2022 RTP/SCS links the goals of sustaining mobility with the goals of fostering economic development; enhancing the environment; reducing energy consumption; promoting transportation-friendly development patterns; and encouraging all residents affected by socioeconomic, geographic, and commercial limitations to be provided with fair access. The 2022 RTP/SCS does

[10] The guidance recommends, "projects requiring preparation of an Environmental Impact Report for any other reason would require quantification of project specific GHG emissions" (SJVAPCD 2009c). This assessment for the project does include quantification of the project's construction and operational GHG emissions.

not require that local general plans, specific plans, or zoning be consistent with it but provide incentives for consistency for governments and developers.

3.3 Greenhouse Gas Inventories and Climate Change Conditions

3.3.1 Sources of Greenhouse Gas Emissions

Anthropogenic GHG emissions worldwide in 2018 (the most recent year for which data is available) totaled approximately 55,600 million metric tons (MMT) of CO_2e, excluding land use change and forestry (PBL 2020). Five countries—China, the United States, the Russian Federation, India, Japan, and the European Union accounted for approximately 62% of the total global emissions, or approximately 34,472 MMT CO_2e (PBL 2020).

Per the EPA's Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2019 (EPA 2021), total United States GHG emissions were approximately 6,558.3 million metric tons (MMT) CO_2e in 2019 (EPA 2021). The primary GHG emitted by human activities in the United States was CO_2, which represented approximately 80.1% of total GHG emissions (5,255.8 MMT CO_2e). The largest source of CO_2, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 92.4% of CO_2 emissions in 2019 (4,856.7 MMT CO_2e). Relative to 1990, gross United States GHG emissions in 2019 were 1.8% higher; however, the gross emissions were down from a high of 15.6% above 1990 levels in 2007. GHG emissions decreased from 2018 to 2019 by 1.7% (113.1 MMT CO_2e) and overall, net emissions in 2019 were 13% below 2005 levels (EPA 2021).

According to California's 2000–2019 GHG emissions inventory (2021 edition), California emitted 418 MMT CO_2e in 2019, including emissions resulting from out-of-state electrical generation (CARB 2021a). The sources of GHG emissions in California include transportation, industry, electric power production from both in-state and out-of-state sources, residential and commercial activities, agriculture, high GWP substances, and recycling and waste. The California GHG emission source categories and their relative contributions in 2019 are presented in Table 15, Greenhouse Gas Emissions Sources in California.

Table 15. Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO_2e)	Percent of Total[a]
Transportation	166.1	39.7%
Industrial	88.2	21.1%
Electric power	58.8	14.1%
Commercial and Residential	43.8	10.5%
Agriculture	31.8	7.6%
High global-warming potential substances	20.6	4.9%
Recycling and waste	8.9	2.1%
Total	**418.2**	**100%**

Source: CARB 2021a.
Notes: GHG = greenhouse gas; MMT CO_2e = million metric tons of carbon dioxide equivalent.
Emissions reflect the 2018 California GHG inventory.

[a] Percentage of total has been rounded, and total may not sum due to rounding.

Between 2000 and 2019, per-capita GHG emissions in California have dropped from a peak of 14.0 MT CO_2e per person in 2001 to 10.5 MT CO_2e per person in 2019, representing an approximate 25% decrease. In addition, total GHG emissions in 2019 were approximately 7 MMT CO_2e lower than 2018 emissions (CARB 2021a).

3.3.2 Potential Effects of Climate Change

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, and electricity demand and supply. The primary effect of global climate change has been a rise in average global tropospheric temperature. Reflecting the long-term warming trend since pre-industrial times, observed mean surface temperature for the decade 2006–2015 was 0.87°C (likely between 0.75°C and 0.99°C) higher than the average over the 1850–1900 period (IPCC 2018). Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. Human activities are estimated to have caused approximately 1.0°C (1.8°F) of global warming above pre-industrial levels, with a likely range of 0.8°C to 1.2°C (1.4°F to 2.2°F) (IPCC 2018). Global warming is likely to reach 1.5°C (2.7°F) between 2030 and 2052 if it continues to increase at the current rate (IPCC 2018).

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The Office of Environmental Health Hazard Assessment identified various indicators of climate change in California, which are scientifically based measurements that track trends in various aspects of climate change. Many indicators reveal discernible evidence that climate change is occurring in California and is having significant, measurable impacts in the state. Changes in the state's climate have been observed, including an increase in annual average air temperature with record warmth from 2012 to 2016, more frequent extreme heat events, more extreme drought, a decline in winter chill, an increase in cooling degree days and a decrease in heating degree days, and an increase in variability of statewide precipitation (OEHHA 2018).

Warming temperatures and changing precipitation patterns have altered California's physical systems—the ocean, lakes, rivers and snowpack—upon which the state depends. Winter snowpack and spring snowmelt runoff from the Sierra Nevada and southern Cascade Mountains provide approximately one-third of the state's annual water supply. Impacts of climate on physical systems have been observed, such as high variability of snow-water content (i.e., amount of water stored in snowpack), decrease in snowmelt runoff, glacier change (loss in area), rise in sea levels, increase in average lake water temperature and coastal ocean temperature, and a decrease in dissolved oxygen in coastal waters (OEHHA 2018).

Impacts of climate change on biological systems, including humans, wildlife, and vegetation, have also been observed, including climate change impacts on terrestrial, marine, and freshwater ecosystems. As with global observations, species responses include those consistent with warming: elevational or latitudinal shifts in range, changes in the timing of key plant and animal life cycle events, and changes in the abundance of species and in community composition. Humans are better able to adapt to a changing climate than plants and animals in natural ecosystems. Nevertheless, climate change poses a threat to public health, as warming temperatures and changes in precipitation can affect vector-borne pathogen transmission and disease patterns in California as well as the variability of heat-related deaths and illnesses. In addition, since 1950, the area burned by wildfires each year has been increasing.

The California Natural Resources Agency (CNRA) has released four California Climate Change Assessments (2006, 2009, 2012, and 2018), which have addressed the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea level rise, more intense and frequent drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack and less overall precipitation, and ocean acidification, hypoxia, and warming. To address local and regional governments need for information to support action in their communities, the Fourth Assessment (CNRA 2018b) includes reports for nine regions of the state, including the San Joaquin Region, where the project is located. Key projected climate changes for the San Joaquin Region include the following (CNRA 2018b):

- Agriculture is one of the most vulnerable sectors under climate change due in part of more frequent and severe drought, as well as tighter water supply.
- Ecosystems in the San Joaquin Valley are highly vulnerable to climate change given existing anthropogenic stressors and the lack of organization of landscape-scale science, funding, and mitigation of adverse impacts within the region.
- Water resources within the San Joaquin Valley region will be severely impacted by climate change.
- Infrastructure in the San Joaquin Valley, including urban, water, and transportation systems may face increased stress from higher temperatures and extreme precipitation events, including droughts and floods.

Agriculture. Some of the specific challenges faced by the agricultural sector and farmers include more drastic and unpredictable precipitation and weather patterns; extreme weather events that range from severe flooding to extreme drought, to destructive storm events; significant shifts in water availably and water quality; changes in pollinator lifecycles; temperature fluctuations, including extreme heat stress and decreased chill hours; increased risks from invasive species and weeds, agricultural pests and plant diseases; and disruptions to the transportation and energy infrastructure supporting agricultural production.

Biodiversity and Habitat. Specific climate change challenges to biodiversity and habitat include species migration in response to climatic changes, range shift and novel combinations of species; pathogens, parasites and disease; invasive species; extinction risks; changes in the timing of seasonal life-cycle events; food web disruptions; threshold effects (i.e., a change in the ecosystem that results in a “tipping point” beyond which irreversible damage or loss has occurred).

Energy. Specific climate change challenges for the energy sector include temperature, fluctuating precipitation patterns, increasing extreme weather events, and sea-level rise.

Forestry. The most significant climate change related risk to forests is accelerated risk of wildfire and more frequent and severe droughts. Droughts have resulted in more large-scale mortalities and combined with increasing temperatures have led to an overall increase in wildfire risks. Increased wildfire intensity subsequently increases public safety risks, property damage, fire suppression and emergency response costs, watershed and water quality impacts, and vegetation conversions.

Ocean and Coastal Ecosystems and Resources. Sea-level rise, changing ocean conditions, and other climate change stressors are likely to exacerbate long-standing challenges related to ocean and coastal ecosystems in addition to threatening people and infrastructure located along the California coastline and in coastal communities. Sea-level rise, in addition to more frequent and severe coastal storms and erosion, are threatening vital

infrastructure such as roads, bridges, power plants, ports and airports, gasoline pipes, and emergency facilities, as well as negatively impacting the coastal recreational assets such as beaches and tidal wetlands.

Public Health. Climate change can impact public health through various environmental changes and is the largest threat to human health in the twenty-first century. Changes in precipitation patterns affect public health primarily through potential for altered water supplies, and extreme events such as heat, floods, droughts, and wildfires. Increased frequency, intensity, and duration of extreme heat and heat waves are likely to increase the risk of mortality due to heat-related illness, as well as exacerbate existing chronic health conditions. Other extreme weather events are likely to negatively impact air quality and increase or intensify respiratory illness, such as asthma and allergies.

Transportation. Although the transportation industry is a source of GHG emissions, it is also vulnerable to climate change risks. Increasing temperatures and extended periods of extreme heat threaten the integrity of the roadways and rail lines. High temperatures cause the road surfaces to expand, which leads to increased pressure and pavement buckling. High temperatures can also cause rail breakages, which could lead to train derailment. Other forms of extreme weather events, such as extreme storm events, can negatively impact infrastructure, which can impair movement of peoples and goods, or potentially block evacuation routes and emergency access roads. Increased wildfires, flooding, erosion risks, landslides, mudslides, and rockslides can all profoundly impact the transportation system and pose a serious risk to public safety.

Water. Climate change could seriously impact the timing, form, amount of precipitation, runoff patterns, and frequency and severity of precipitation events. Higher temperatures reduce the amount of snowpack and lead to earlier snowmelt, which can impact water supply availability, natural ecosystems, and winter recreation. Water supply availability during the intense dry summer months is heavily dependent on the snowpack accumulated during the wintertime. Increased risk of flooding has a variety of public health concerns, including water quality, public safety, property damage, displacement, and post-disaster mental health problems. Prolonged and intensified droughts can also negatively groundwater reserves and result in increased overdraft and subsidence. The higher risk of wildfires can lead to increased erosion, which can negatively impact watersheds and result in poor water quality.

3.4 Significance Criteria and Methodology

3.4.1 Thresholds of Significance

The significance criteria used to evaluate the project's GHG emissions impacts is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the proposed project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are

recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). The State of California has not adopted emission-based thresholds for GHG emissions under CEQA. The Governor's Office of Planning and Research's Technical Advisory, titled "Discussion Draft CEQA and Climate Change Advisory," states that (OPR 2018):

> Neither the CEQA statute nor the CEQA Guidelines prescribe thresholds of significance or particular methodologies for perming an impact analysis. This is left to lead agency judgment and discretion, based upon factual data and guidance from regulatory agencies and other sources where available and applicable. Even in the absence of clearly defined thresholds for GHG emissions, such emissions must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact.

Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice." Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

Notwithstanding the CEQA Guidelines, local land use agencies sought additional technical assistance from expert air quality agencies in how to complete the suggested quantitative analysis of the significance of GHG emissions for land use projects being considered under CEQA. The SJVAPCD adopted *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New projects under CEQA* (SJVAPCD 2009c). The guidance relies on either BPS or 29% reduction compared to BAU to assess significance of project specific GHG emissions on global climate change during the environmental review process. Notably, the project would not be considered a stationary project with applicable BPS. Regarding the BAU threshold, the Supreme Court in its 2015 decision, *Center for Biological Diversity v. Department of Fish and Wildlife*, S217763 (*Newhall*), concluded that substantial evidence is required to support the application of AB 32 statewide GHG reduction goal of 29% to new land use projects. Since neither the BPS nor BAU approach is generally appropriate for this project, the SJVAPCD guidance was not used for this analysis. However, the SJVAPCD guidance does not limit a lead agency's authority in establishing its own process and guidance for determining significance of project-related impacts on global climate change.

In absence of any applicable numeric threshold, this analysis assesses compliance with applicable plans, policies, regulations, and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. As a land use development project, the most directly applicable adopted regulatory plan to reduce GHG emissions is the FCOG 2022 RTP/SCS, which is designed to achieve regional GHG reductions from the land use and transportation sectors as required by SB 375 and the state's long-term climate goals. This analysis also considers consistency with regulations and requirements adopted

pursuant to the Scoping Plan and the County's General Plan. GHG emissions from project construction and operation are included for disclosure consistent with OPR recommendations and industry practice.

3.4.2 Approach and Methodology

3.4.2.1 Construction

CalEEMod Version 2022.1.1.29 was used to estimate potential project-generated GHG emissions during construction. Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. All details for construction criteria air pollutants discussed in Section 2.4.2.1, are also applicable for the estimation of construction-related GHG emissions. As such, see Section 2.4.2.1 for a discussion of construction emissions calculation methodology and assumptions.

3.4.2.2 Operation

Emissions from the operational phase of the project were estimated using CalEEMod Version 2020.4.0. Operational year 2028 was assumed consistent with completion of project construction. CalEEMod was used to estimate potential project-generated operational GHG emissions from area sources, energy sources (electricity), mobile, solid waste, water supply and wastewater treatment. Emissions from each category are discussed in the following text with respect to the project. For additional details, see Section 2.4.2.2, Operational Emissions, for a discussion of operational emission calculation methodology and assumptions, specifically for area, energy (electricity), and mobile sources.

Area Sources

During operations and maintenance, one of the main sources of GHG emissions would be fugitive emissions from equipment containing SF_6 gas installed at the proposed collector substation. SF_6 has a GWP of 23,900 using CO_2 at a reference value of 1 (IPCC 2007). The substation would include 138 kilovolt (kV) breakers that would contain SF_6 gas. It is estimated that the project would maintain a total of 240 pounds of SF_6 gas at the substation. Although leakage is unlikely, for the purposes of the project's emissions inventory, it was assumed that the breakers would have a maximum annual leak rate of 0.5% in accordance with the Institute of Electrical and Electronics Engineers (IEEE) PC37.122 - Standard for High Voltage Gas-Insulated Substations Rated Above 52 kV (IEEE 2018). Emissions from SF_6 gas are included as part of area source emissions.

Energy Sources

The estimation of operational energy emissions was based on CalEEMod land use defaults and total area (i.e., square footage) of the project's land use. The project would not use natural gas during operation. CalEEMod default assumptions for the electricity demand for the operations and maintenance building was assumed. There would be energy loss during charging of the BESS due to auxiliary loads and transmission losses. As the BESS is contractually limited to charging on average once daily over a year, it was assumed that the BESS would be charged and discharged once per day. An auxiliary load of 3% was conservatively assumed. Conservatively, for calculation purposes, it was assumed that the BESS would be only charged from the grid and not from the onsite solar. This is a highly unlikely scenario but presents a worst-case scenario for estimating GHG emissions. The default emissions factors for PG&E were

assumed, which are from 2019. It should be noted that this is conservative as the GHG emission factor for PG&E has decreased over 95% as reported for 2023 (CEC 2023).

Mobile Sources

All details for criteria air pollutants discussed in Section 2.4.2.2 are also applicable for the estimation of operational mobile source GHG emissions. Mobile sources for the project would primarily be motor vehicles (automobiles, light-duty trucks, and heavy-duty trucks)[11] traveling to and from the project site. As discussed in Section 2.4.2.2, emissions from the mobile sources during operation of the project were estimated using CalEEMod.

Refrigerants

CalEEMod was utilized to estimate fugitive GHG emissions from refrigerants used for air conditioning and refrigeration equipment. The BESS uses air conditioning equipment to control the temperatures inside the enclosures. Different types of refrigeration equipment are utilized for different types of land uses and CalEEMod generates default refrigerant values based on land use subtype and industry data from the U.S. Environmental Protection Agency (USEPA). CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions from the lifetime estimate but does not quantify emissions from the disposal of refrigeration and air conditioning equipment at the end of its lifetime.

Most of the refrigerants used today are HFCs or blends thereof, which can have high GWP values. However, California is required to reduce HFC emissions 40% below 2013 levels by 2030 under SB1383, and regulations have been adopted to place GWP limits on HFCs, such as SB 120.

Solid Waste

The project would generate solid waste, and therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the Project require the use of electricity, which would result in associated indirect GHG emissions. The O&M building was assumed to have an onsite septic system. The water use during construction was added to operation to amortize the emissions over the operational period, 33.2 acre-feet per year (14 acre-feet from operation and 19.2 acre-feet from amortized construction and decommissioning). Water was assumed to be delivered by truck from the Westlands Water District or from an onsite well. The electricity consumption from water use was estimated using CalEEMod default values for the Project.

[11] "Heavy-duty trucks" include medium-heavy-duty trucks (3-axle) and heavy-heavy-duty trucks (4+-axle).

3.5 Impact Analysis

3.5.1 Would the Project Generate Greenhouse Gas Emissions, Either Directly or Indirectly, that May Have a Significant Impact on the Environment?

3.5.2 Would the Project Conflict with an Applicable Plan, Policy, or Regulation Adopted for the Purpose of Reducing the Emissions of Greenhouse Gases?

Construction Emissions

Construction of the project would result in GHG emissions, which are primarily associated with the use of off-road construction equipment, haul trucks, on-road vendor trucks, and worker vehicles.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 2.4.2.1. Construction of the project is anticipated to commence in December 2026 and would last approximately 18 months, ending in May 2028. On-site sources of GHG emissions include off-road equipment and off-site sources include vendor trucks and worker vehicles. Table 16 presents construction emissions for the project from on-site and off-site emission sources.

Table 16. Estimated Annual Construction Greenhouse Gas Emissions – Unmitigated

Year	CO2	CH4	N2O	CO2e
	Metric Tons Per Year			
2026	131.98	<0.01	<0.01	133.11
2027	3,308.88	0.07	0.11	3,347.01
2028	2,752.97	0.04	0.09	2,784.19
2050	280.08	<0.01	0.02	286.88
			Total	6,551.18
			Amortized over 30 years	218.37

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; <0.01 = reported value less than 0.005. See Appendix A for complete results.
The values shown are the annual emissions reflect California Emissions Estimator Model "mitigated" output.
Totals may not add due to rounding.

As shown in Table 16, the estimated total GHG emissions during construction of would be approximately 6,551 MT CO_2e over the construction period. Estimated project-generated construction emissions amortized over 30 years would be approximately 218 MT CO_2e per year. As with project-generated construction criteria air pollutant emissions, GHG emissions generated during construction of the project would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

Operation of the project would generate GHG emissions through passenger vehicle and delivery truck trips to and from the project site; landscape maintenance equipment operation; solid waste disposal; water use; and on-site septic system. CalEEMod and a spreadsheet model were used to calculate the annual GHG emissions based on the operational assumptions described in Section 3.4.2.2, Operation. The estimated operational project-generated GHG emissions are shown in Table 17.

Table 17. Estimated Annual Operational Greenhouse Gas Emissions

Emission Source	CO2	CH4	N2O	CO2e
	Metric Tons Per Year			
Area[1]	-	-	-	13.01
Energy	1,222.41	0.20	0.02	1,234.50
Mobile	39.26	<0.01	<0.01	39.63
Refrigerants	-	-	-	0.13
Solid waste	0.33	0.03	-	1.16
Water supply and wastewater	1.98	0.16	<0.01	6.09
Amortized 30-Year Construction Emissions				*218.37*
Operation plus Amortized Construction Total				**1,512.89**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; < 0.01 = reported emissions less than 0.005; - = no emissions.
See Appendix A for complete results.
Totals may not add due to rounding.
[1] Includes CO_2e emissions from SF_6 leakage from the substation.

As shown in Table 18, estimated annual project-generated GHG emissions would be approximately 1,513 MT CO_2e per year as a result of project operations and amortized construction.

Avoided GHG Emissions

As noted above, the Proposed project would generate 1,513 MT CO_2e per year. The default CalEEMod CO_2e emission factor for PG&E was 206.00 pounds of CO_2e per megawatt-hour (CO_2e/MWh) from 2019 (CAPCOA 2025). Assuming that PG&E would meet the EO B-55- 18 carbon neutrality target in 2045, a linear regression of the PG&E GHG emission factor was calculated from 2021 to 2044. This would mean that the Proposed project would avoid less GHG emissions over time in this scenario. Assuming this, the Proposed project would avoid a total of 276,717 MT CO_2e from 2028 through 2044. Accounting for 30 years of operation, the project would emit 45,390 MT CO_2e. Therefore, the project would avoid a net 231,327 MT CO_2e over its lifetime. The Proposed project is expected to be operational through 2058 and thus it would not be avoiding GHG emissions from 2045 through 2058 in this scenario. Therefore, even in this most conservative analysis, the project would avoid more GHG emissions than it would emit.

Project Consistency with Applicable GHG-Related Laws and Regulations

The project's consistency with statewide GHG reduction strategies is summarized in detail in Table 18.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Building Components/Facility Operations		
Roofs/Ceilings/ Insulation	CALGreen Code (Title 24, Part 11) California Energy Code (Title 24, Part 6)	The project must comply with efficiency standards regarding roofing, ceilings, and insulation. For example: Roofs/Ceilings: New construction must reduce roof heat island effects per CALGreen Code Section 106.11.2, which requires use of roofing materials having a minimum aged solar reflectance, thermal emittance complying with Section A5.106.11.2.2 and A5.106.11.2.3 or a minimum aged Solar Reflectance Index as specified in Tables A5.106.11.2.2, or A5.106.11.2.3. Roofing materials must also meet solar reflectance and thermal emittance standards contained in Title 20 Standards. Roof/Ceiling Insulation: There are also requirements for the installation of roofing and ceiling insulation. (See Title 24, Part 6 Compliance Manual at Section 3.2.2.)
Flooring	CALGreen Code	The project must comply with efficiency standards regarding flooring materials. For example, for 80% of floor area must receive "resilient flooring," the flooring must meet applicable installation and material requirements contained in CALGreen Code Section 5.504.4.6.
Window and Doors (Fenestration)	California Energy Code	The project must comply with fenestration efficiency requirements. For example, the choice of windows, glazed doors, and any skylights for the project must conform to energy consumption requirements affecting size, orientation, and types of fenestration products used. (See Title 24, Part 6 Compliance Manual, Section 3.3.)
Building Walls/ Insulation	CALGreen Code California Energy Code	The project must comply with efficiency requirements for building walls and insulation. Exterior Walls: Must meet requirements in current edition of California Energy Code and comply with Sections A5.106.7.1 or A5.106.7.2 of CALGreen Code for wall surfaces, as well as Section 5.407.1, which requires weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2. Construction must also meet requirements contained in Title 24, Part 6, which vary by material of the exterior walls. (See Title 24, Part 6 Compliance Manual, Part 3.2.3.) Demising (Interior) Walls: Mandatory insulation requirements for demising walls (which separate conditioned from non-conditions space) differ by the type of wall material used. (*Id*. at 3.2.4.) Door Insulation: There are mandatory requirements for air infiltration rates to improve insulation efficiency; they differ according to the type of door. (*Id*. at 3.2.5.) Flooring Insulation: There are mandatory requirements for insulation that depend on the material and location of the flooring. (Id. at 3.2.6.)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Finish Materials	CALGreen Code	The project must comply with pollutant control requirements for finish materials. For example, materials including adhesives, sealants, caulks, paints and coatings, carpet systems, and composite wood products must meet requirements in CALGreen Code to ensure pollutant control. (CALGreen Code Section 5.504.4.)
Wet Appliances (Toilets/Faucets/Urinal, Dishwasher/Clothes Washer, Spa and Pool/ Water Heater)	CALGreen Code California Energy Code Appliance Efficiency Regulations (Title 20 Standards)	Wet appliances associated with the project must meet various efficiency requirements. For example: Spa and Pool: Use associated with the project is subject to appliance efficiency requirements for service water heating systems and equipment, spa and pool heating systems and equipment. (Title 24, Part 6, Sections 110.3, 110.4, 110.5; Title 20 Standards, Sections 1605.1(g), 1605.3(g); see also California Energy Code.) Toilets/Faucets/Urinals: Use associated with the project is subject to new maximum rates for toilets, urinals, and faucets effective January 1, 2016: Showerheads maximum flow rate 2.5 gpm at 80 psi Wash fountains 2.2 × (rim space in inches/20) gpm at 60 psi Metering faucets 0.25 gallons/cycle Lavatory faucets and aerators 1.2 gpm at 60 psi Kitchen faucets and aerators 1.8 gpm with optional temporary flow of 2.2 gpm at 60 psi Public lavatory faucets 0.5 gpm at 60 psi Trough-type urinals 16 inches length Wall mounted urinals 0.125 gallons per flush Other urinals 0.5 gallons per flush (Title 20 Standards, Sections 1605.1(h),(i) 1065.3(h),(i).) Water Heaters: Use associated with the project is subject to appliance efficiency requirements for water heaters. (Title 20 Standards, Sections 1605.1(f), 1605.3(f).) Dishwasher/Clothes Washer: Use associated with the project is subject to appliance efficiency requirements for dishwashers and clothes washers. (Title 20 Standards, Sections 1605.1(o),(p),(q), 1605.3(o),(p),(q).)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Dry Appliances (Refrigerator/Freezer, Heater/Air Conditioner, Clothes Dryer)	Title 20 Standards CALGreen Code	Dry appliances associated with the project must meet various efficiency requirements. For example: Refrigerator/Freezer: Use associated with the project is subject to appliance efficiency requirements for refrigerators and freezers. (Title 20 Standards, Sections 1605.1(a), 1605.3(a).) Heater/Air Conditioner: Use associated with the project is subject to appliance efficiency requirements for heaters and air conditioners. (Title 20 Standards, Sections 1605.1(b),(c),(d),(e), 1605.3(b),(c),(d),(e) as applicable.) Clothes Dryer: Use associated with the project is subject to appliance efficiency requirements for clothes dryers. (Title 20 Standards, Section 1605.1(q).)
	CALGreen Code	Installations of HVAC, refrigeration and fire suppression equipment must comply with CALGreen Code Sections 5.508.1.1 and 508.1.2, which prohibits CFCs, halons, and certain HCFCs and HFCs.
Lighting	Title 20 Standards	Lighting associated with the project will be subject to energy efficiency requirements contained in Title 20 Standards. General Lighting: Indoor and outdoor lighting associated with the project must comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(j),(k),(n), 1605.3(j),(k),(n).) Emergency lighting and self-contained lighting: the project must also comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(l), 1605.3(l).) Traffic Signal Lighting: For any necessary project improvements involving traffic lighting, traffic signal modules and traffic signal lamps will need to comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(m), 1605.3(m).)
	California Energy Code	Lighting associated with the project will also be subject to energy efficiency requirements contained in Title 24, Part 6, which contains energy standards for non-residential indoor lighting and outdoor lighting. (See Title 24 Part 6 Compliance Manual, at Sections 5, 6.) Mandatory lighting controls for indoor lighting include, for example, regulations for automatic shut-off, automatic daytime controls, demand responsive controls, and certificates of installation. (Id. at Section 5.) Regulations for outdoor lighting include, for example, creation of lighting zones, lighting power requirements, a hardscape lighting power allowance, requirements for outdoor incandescent and luminaire lighting, and lighting control functionality. (Id. at Section 6.)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
	AB 1109	Lighting associated with the project will be subject to energy efficiency requirements adopted pursuant to AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general purpose lighting, to reduce electricity consumption 25% for indoor commercial lighting.
Bicycle and Vehicle Parking	CALGreen Code	The project will be required to provide compliant bicycle parking, fuel-efficient vehicle parking, and electric vehicle charging spaces (CALGreen Code Sections 5.106.4, 5.106.5.1, 5.106.5.3)
	California Energy Code	The project is also subject to parking requirements contained in Title 24, Party 6. For example, parking capacity is to meet but not exceed minimum local zoning requirements, and the project should employ approved strategies to reduce parking capacity (Title 24, Part 6, section 106.6)
Landscaping	CALGreen Code	The CALGreen Code requires and has further voluntary provisions for: ▪ - A water budget for landscape irrigation use; ▪ - For new water service, separate meters or submeters must be installed for indoor and outdoor potable water use for landscaped areas of 1,000-5,000 square feet; ▪ - Provide water-efficient landscape design that reduces use of potable water beyond initial requirements for plant installation and establishment
	Model Water Efficient Landscaping Ordinance	The model ordinance promotes efficient landscaping in new developments and establishes an outdoor water budget for new and renovated landscaped areas that are 500 square feet or larger. (CCR, Title 23, Division 2, Chapter 2.7.)
	Cap-and-Trade Program	Transportation fuels used in landscape maintenance equipment (e.g., gasoline) would be subject to the Cap-and-Trade Program. (See “Energy Use,” below.)
Refrigerants	CARB Management of High GWP Refrigerants for Stationary Sources	Any refrigerants associated with the project will be subject to CARB standards. CARB’s Regulation for the Management of High GWP Refrigerants for Stationary Sources 1) reduces emissions of high-GWP refrigerants from leaky stationary, non-residential refrigeration equipment; 2) reduces emissions resulting from the installation and servicing of stationary refrigeration and air conditioning appliances using high-GWP refrigerants; and 3) requires verification GHG emission reductions. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5.1, Section 95380 et seq.)
Consumer Products	CARB High GWP GHGs in Consumer Products	All consumer products associated with the project will be subject to CARB standards. CARB’s consumer products regulations set VOC limits for numerous categories of consumer products and limits the reactivity of the ingredients used in numerous categories of aerosol coating products (CCR, Title 17, Division 3, Chapter 1, Subchapter 8.5.)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Construction		
Use of Off-Road Diesel Engines, Vehicles, and Equipment	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.
	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in equipment operation would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
Greening New Construction	CALGreen Code	All new construction, including the project, must comply with CALGreen Code, as discussed in more detail throughout this table. Adoption of the mandatory CALGreen Code standards for construction has been essential for improving the overall environmental performance of new buildings; it also sets voluntary targets for builders to exceed the mandatory requirements.
Construction Waste	CALGreen Code	The project will be subject to CALGreen Code requirements for construction waste reduction, disposal, and recycling, such as a requirement to recycle and/or salvage for reuse a minimum of 50% of the non-hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
Worker, vendor and truck vehicle trips (on-road vehicles)	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in worker, vendor and truck vehicle trips would be subject to the Cap-and-Trade Program.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Solid Waste		
Solid Waste Management	Landfill Methane Control Measure	Waste associated with the project will be disposed per state requirements for landfills, material recovery facilities, and transfer stations. Per the statewide GHG emissions inventory, the largest emissions from waste management sectors come from landfills, and are in the form of CH_4. In 2010, CARB adopted a regulation that reduces emissions from methane in landfills, primarily by requiring owners and operators of certain uncontrolled municipal solid waste landfills to install gas collection and control systems, and requires existing and newly installed gas and control systems to operate in an optimal manner. The regulation allows local air districts to voluntarily enter into a memorandum of understanding with CARB to implement and enforce the regulation and to assess fees to cover costs of implementation.
	Mandatory Commercial Recycling (AB 341)	AB 341 will require the project, if it generates four cubic yards or more of commercial solid waste per week, to arrange for recycling services, using one of the following: self-haul; subscribe to a hauler(s); arranging for pickup of recyclable materials; subscribing to a recycling service that may include mixed waste processing that yields diversion results comparable to source separation. The project will also be subject to local commercial solid waste recycling program required to be implemented by each jurisdiction under AB 341.
	CALGreen Code	The project will be subject to CALGreen Code requirement to provide areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling (CALGreen Code Section 5.410.1)
Energy Use		
Electricity/Natural Gas Generation	Cap-and-Trade Program	Electricity and natural gas usage associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, reformulated gasoline blendstock for oxygenate blending (RBOB), distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 metric tons or more of CO_2e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil,

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
		liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.
Renewable Energy	California RPS (SB X1-2, SB 350, and SB 100)	Energy providers associated with the project will be required to comply with RPS set by SB X1 2, SB 350, and SB 100. SB X1 2 requires investor-owned utilities, publicly-owned utilities, and electric service providers to increase purchases of renewable energy such that at least 33% of retail sales are procured from renewable energy resources by December 31, 2020. In the interim, each entity was required to procure an average of 20% of renewable energy for the period of January 1, 2011 through December 31, 2013; and will be required to procure an average of 25% by December 31, 2016, and 33% by 2020. SB 350 requires retail sellers and publicly owned utilities to procure 50% of their electricity from eligible renewable energy resources by 2030. SB 100 increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California by 2045.
	Million Solar Roofs Program (SB 1)	The project will participate in California's energy market, which is affected by implementation of the Million Solar Roofs Program. As part of Governor Schwarzenegger's Million Solar Roofs Program, California has set a goal to install 3,000 megawatts of new, solar capacity through 2016. The Million Solar Roofs Program is a ratepayer-financed incentive program aimed at transforming the market for rooftop solar systems by driving down costs over time.
	California Solar Initiative- Thermal Program	The project will participate in California's energy market, which is affected by implementation of the California Solar Initiative -Thermal Program. Multifamily and Commercial properties qualify for rebates of up to $800,000 on solar water heating systems and eligible solar pool heating systems qualify for rebates of up to $500,000. Funding for the California Solar Initiative-Thermal program comes from ratepayers of Pacific Gas and Electric, SCE, Southern California Gas Company, and San Diego Gas and Electric. The rebate program is overseen by the CPUC as part of the California Solar Initiative.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
	Waste Heat and Carbon Emissions Reduction Act (AB 1613, AB 2791)	The project will participate in California's energy market, which is affected by implementation of the Waste Heat and Carbon Emissions Reduction Act. Originally enacted in 2007 and in 2008, this act directed the CEC, CPUC, and CARB to implement a program that would encourage the amended development of new combined heat and power systems in California with a generating capacity of not more than 20 megawatts, to increase combined heat and power use by 30,000 gigawatt-hour. The CPUC publicly owned electric utilities, and CEC duly established policies and procedures for the purchase of electricity from eligible combined heat and power systems. CEC guidelines require combined heat and power systems to be designed to reduce waste energy; have a minimum efficiency of 60%; have NO_x emissions of no more than 0.07 pounds per megawatt-hour; be sized to meet eligible customer generation thermal load; operate continuously in a manner that meets expected thermal load and optimizes efficient use of waste heat; and be cost effective, technologically feasible, and environmentally beneficial.
Vehicular/Mobile Sources		
General	SB 375 and SJCOG RTP/SCS	The project complies with, and is subject to, the SJCOG adopted RTP/SCS in 2018.
Fuel	Low Carbon Fuel Standard (LCFS)/ EO S-01-07	Auto trips associated with the project will be subject to LCFS (EO S-01-07), which requires a 10% or greater reduction in the average fuel carbon intensity by 2020 with a 2010 baseline for transportation fuels in California regulated by CARB. The program establishes a strong framework to promote the low carbon fuel adoption necessary to achieve the Governor's 2030 and 2050 GHG goals.
	Cap-and-Trade Program	Use of gasoline associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, RBOB, distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 MT or more of CO_2e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil, liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Automotive Refrigerants	CARB Regulation for Small Containers of Automotive Refrigerant	Vehicles associated with the project will be subject to CARB's Regulation for Small Containers of Automotive Refrigerant. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5, Section 95360 et seq.) The regulation applies to the sale, use, and disposal of small containers of automotive refrigerant with a GWP greater than 150. The regulation achieves emission reductions through implementation of four requirements: 1) use of a self-sealing valve on the container, 2) improved labeling instructions, 3) a deposit and recycling program for small containers, and 4) an education program that emphasizes best practices for vehicle recharging. This regulation went into effect on January 1, 2010 with a one-year sell-through period for containers manufactured before January 1, 2010. The target recycle rate is initially set at 90%, and rises to 95% beginning January 1, 2012.
Light-Duty Vehicles	AB 1493 (or the Pavley Standard)	Cars that drive to and from the project will be subject to AB 1493, which directed CARB to adopt a regulation requiring the maximum feasible and cost-effective reduction of GHG emissions from new passenger vehicles. Pursuant to AB 1493, CARB adopted regulations that establish a declining fleet average standard for CO_2, CH_4, N_2O, and HFCs (air conditioner refrigerants) in new passenger vehicles and light-duty trucks beginning with the 2009 model year and phased-in through the 2016 model year. These standards are divided into those applicable to lighter and those applicable to heavier portions of the passenger vehicle fleet. The regulations will reduce "upstream" smog-forming emissions from refining, marketing, and distribution of fuel.
	Advanced Clean Car and ZEV Programs	Cars that drive to and from the project will be subject to the Advanced Clean Car and ZEV Programs. In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards called Advanced Clean Cars. By 2025, new automobiles will emit 34% fewer global warming gases and 75% fewer smog-forming emissions. The ZEV program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid electric vehicles in the 2018-2025 model years.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
	Tire Inflation Regulation	Cars that drive to and from the project will be subject to the CARB Tire Inflation Regulation, which took effect on September 1, 2010, and applies to vehicles with a gross vehicle weight rating of 10,000 pounds or less. Under this regulation, automotive service providers must, inter alia, check and inflate each vehicle's tires to the recommended tire pressure rating, with air or nitrogen, as appropriate, at the time of performing any automotive maintenance or repair service, and to keep a copy of the service invoice for a minimum of three years, and make the vehicle service invoice available to the CARB, or its authorized representative upon request.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for passenger cars, light-duty trucks, and medium-duty passenger vehicles. (75 FR 25324–25728 and 77 FR 62624–63200.)
Medium- and Heavy-Duty Vehicles	CARB In-Use On-Road Heavy-Duty Diesel Vehicles Regulation (Truck and Bus Regulation)	Any heavy-duty trucks associated with the project will be subject to CARB standards. The regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet PM filter requirements. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent. The regulation applies to nearly all privately and federally owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds.
	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulations: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
	Heavy-Duty Vehicle GHG Emission Reduction Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB Heavy-Duty Vehicle GHG Emission Reduction Regulation applies to heavy-duty tractors that pull 53-foot or longer box-type trailers. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 1, Section 95300 et seq.) Fuel efficiency is improved through improvements in tractor and trailer aerodynamics and the use of low rolling resistance tires.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for medium- and heavy-duty vehicles. (76 FR 57106–57513.)
Water Use		
Water Use Efficiency	Emergency State Water Board Regulations	Water use associated with the project will be subject to emergency regulations. On May 18, 2016, partially in response to EO B-27-16, the State Water Board adopted emergency water use regulations (CCR, title 23, Section 864.5 and amended and re-adopted Sections 863, 864, 865, and 866). The regulation directs the State Water Board, Department of Water Resources, and CPUC to implement rates and pricing structures to incentivize water conservation, and calls upon water suppliers, homeowners' associations, California businesses, landlords and tenants, and wholesale water agencies to take stronger conservation measures.
	EO B-37-16	Water use associated with the project will be subject to Emergency EO B-37-16, issued May 9, 2016, which directs the State Water Resources Control Board to adjust emergency water conservation regulations through the end of January, 2017 to reflect differing water supply conditions across the state. The Water Board must also develop a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The Water Board and Department of Water Resources will develop new, permanent water use targets to which the project will be subject. The Water Board will permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes; washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.
	EO B-40-17	EO B-40-17 lifted the drought emergency in all California counties except Fresno, Kings, Tulare, and Tuolumne. It also rescinds EO B-29-15, but expressly states that EO B-37-16 remains in effect

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
		and directs the State Water Resources Control Board to continue development of permanent prohibitions on wasteful water use to which the project will be subject.
	SB X7-7	Water provided to the project will be affected by SB X7-7's requirements for water suppliers. SB X7-7, or the Water Conservation Act of 2009, requires all water suppliers to increase water use efficiency. It also requires, among other things, that the Department of Water Resources, in consultation with other state agencies, develop a single standardized water use reporting form, which would be used by both urban and agricultural water agencies.
	CALGreen Code	The project is subject to CALGreen Code's water efficiency standards, including a required 20% mandatory reduction in indoor water use. (CALGreen Code, Division 4.3.)
	California Water Code, Division 6, Part 2.10, Sections 10910–10915.	Development and approval of the project requires the development of a project-specific Water Supply Assessment.
	Cap-and-Trade Program	The project proposes utilization of a private well for water and an on-site septic system for sewage disposal. Thus, the Cap-and-Trade Program does not apply to the project.
	California RPS (SB X1-2, SB 350, SB 100)	Electricity usage associated with water and wastewater supply, treatment and distribution associated with the project will be required to comply with RPS set by SB X1-2, SB 350, and SB 100.

Notes: AB = Assembly Bill; CARB = California Air Resources Board; CEC = California Energy Commission; CFC = chlorofluorocarbon; CH_4 = methane; CO_2 = carbon dioxide; CO_2e = carbon dioxide equivalent; CPUC = California Public Utilities Commission; EO = Executive Order; EPA = Environmental Protection Agency; GHG = greenhouse gas; GWP = global warming potential; HCFC = hydrochlorofluorocarbon; HFC = hydrofluorocarbon; gpm = gallons per minute; MT = metric tons; N_2O = nitrous oxide; NHTSA = National Highway Traffic Safety Administration; PM = particulate matter; RPS = Renewable Portfolio Standard; RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy; SB = Senate Bill; SJCOG = San Joaquin Council of Governments; VOC = volatile organic compound; ZEV = zero emission vehicle.

As shown in Table 18, the project would be required to comply with the various GHG-reducing regulations.

Project Consistency with CARB's Scoping Plan

The Scoping Plan, approved by CARB in 2008 and updated in 2014, 2017, and 2022 provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. As such, the Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.[12] Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., Low-Carbon Fuel Standard), among others. The project would comply with all applicable regulations adopted in furtherance of the Scoping Plan to the extent required by law.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. Table 19 highlights measures that have been developed under the Scoping Plan and the project's consistency with those measures. Table 19 also includes measures recommended in the Scoping Plan. To the extent that these regulations are applicable to the project, its inhabitants, or uses, the project would comply with all applicable regulations adopted in furtherance of the Scoping Plan.

[12] The Final Statement of Reasons for the amendments to the State CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009a).

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Transportation Sector		
Advanced Clean Cars	T-1	*Consistent.* The project's employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase.
Low Carbon Fuel Standard	T-2	*Consistent.* Motor vehicles driven by the project's employees would use compliant fuels.
Low Carbon Fuel Standard (18% reduction in carbon intensity by 2030)	Recommended	*Consistent.* Motor vehicles driven by the project's employees would use compliant fuels.
Regional Transportation-Related GHG Targets	T-3	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Advanced Clean Transit	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Last Mile Delivery	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduction in Vehicle Miles Traveled	Recommended	*Not applicable.* The project would not prevent CARB from implementing this measure.
Vehicle Efficiency Measures 1. Tire Pressure 2. Fuel Efficiency Tire Program 3. Low-Friction Oil 4. Solar-Reflective Automotive Paint and Window Glazing	T-4	*Consistent.* These standards would be applicable to the light-duty vehicles that would access the project site. Motor vehicles driven by the project's employees would maintain proper tire pressure when their vehicles are serviced. The project's employees would replace tires in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase. Motor vehicles driven by the project's employees would use low-friction oils when their vehicles are serviced. The project's employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase. In addition, the project would not prevent CARB from implementing this measure.
Ship Electrification at Ports (Shore Power)	T-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Goods Movement Efficiency Measures 1. Port Drayage Trucks 2. Transport Refrigeration Units Cold Storage Prohibition 3. Cargo Handling Equipment, Anti-Idling, Hybrid, Electrification 4. Goods Movement Systemwide Efficiency Improvements 5. Commercial Harbor Craft Maintenance and Design Efficiency 6. Clean Ships 7. Vessel Speed Reduction	T-6	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
California Sustainable Freight Action Plan	Recommended	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Heavy-Duty Vehicle GHG Emission Reduction 1. Tractor-Trailer GHG Regulation 2. Heavy-Duty Greenhouse Gas Standards for New Vehicle and Engines (Phase I)	T-7	*Consistent.* Heavy-duty vehicles would be required to comply with CARB GHG reduction measures. In addition, the project would not prevent CARB from implementing this measure.
Medium- and Heavy-Duty Vehicle Hybridization Voucher Incentive project	T-8	*Consistent.* The project medium- and heavy-duty vehicles (e.g., delivery trucks) could take advantage of the vehicle hybridization action, which would reduce GHG emissions through increased fuel efficiency. In addition, the project would not prevent CARB from implementing this measure.
Medium and Heavy-Duty GHG Phase 2	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
High-Speed Rail	T-9	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Transportation Electrification	2022 Appendix D	*Consistent.* The project would include EV charging infrastructure at the operations and maintenance building that meets the voluntary standard in the CalGreen Code at time of project approval.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
VMT Reduction		
Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer)	2022 Appendix D	*Consistent.* The Project site is located in the San Joaquin Valley, approximately 6.5 miles south of the City of Mendota, and immediately west of SR-33, in unincorporated Fresno County. The proposed Project site has historically been used for farming. The land has been retired from irrigated agriculture due to lack of drainage services and salt accumulation in the soil, and is subject to a legal covenant that precludes irrigation. The nature of the project type and amount of land required does not lend itself to urban infill. However, as discussed, it is located on previous agricultural land and not open green space.
Does not result in the loss or conversion of natural and working lands	2022 Appendix D	*Consistent.* The Project site has been retired from irrigated agriculture due to lack of drainage services and salt accumulation in the soil, and is subject to a legal covenant that precludes irrigation. Therefore, the site is no longer suitable for agriculture.
Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre), or, Is in proximity to existing transit stops (within a half mile), or Satisfies more detailed and stringent criteria specified in the region's SCS.	2022 Appendix D	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduces parking requirements by: Eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or Providing residential parking supply at a ratio of less than one parking space per dwelling unit; or For multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit.	2022 Appendix D	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
At least 20 percent of units included are affordable to lower-income residents	2022 Appendix D	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Results in no net loss of existing affordable units	2022 Appendix D	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking	2022 Appendix D	*Consistent.* The operations and maintenance building will be all-electric. There will be no natural gas used onsite.
Electricity and Natural Gas Sector		
Energy Efficiency Measures (Electricity)	E-1	*Consistent.* The project will comply with current Title 24, Part 6, of the California Code of Regulations energy efficiency standards for electrical appliances and other devices at the time of building construction.
Energy Efficiency (Natural Gas)	CR-1	*Consistent.* The project would be all-electric and would not use natural gas during operation.
Solar Water Heating (California Solar Initiative Thermal Program)	CR-2	*Not applicable.* The project would not prevent CARB from implementing this measure.
Combined Heat and Power	E-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Renewable Portfolios Standard (33% by 2020)	E-3	*Consistent.* While the project would support this goal, the 2020 goal has passed and would no longer apply.
Renewable Portfolios Standard (50% by 2050)	Recommended	*Consistent.* The project would support the RPS goal by production of 300 MW of solar electricity.
Senate Bill 1 Million Solar Roofs (California Solar Initiative, New Solar Home Partnership, Public Utility Programs) and Earlier Solar Programs	E-4	*Not applicable.* The project would not prevent CARB from implementing this measure.
Water Sector		
Water Use Efficiency	W-1	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Water Recycling	W-2	*Consistent.* Non-potable water would be used exclusively for dust suppression and panel washing.
Water System Energy Efficiency	W-3	*Not applicable.* This is applicable for the transmission and treatment of water, but it is not applicable for the project.
Reuse Urban Runoff	W-4	*Not applicable.* The reuse of urban water on site was determined to not be feasible. The project would not prevent CARB from implementing this measure.
Renewable Energy Production	W-5	*Not applicable.* Applicable for wastewater treatment systems. Not applicable for the project.
Green Buildings		
State Green Building Initiative: Leading the Way with State Buildings (Greening New and Existing State Buildings)	GB-1	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Green Building Standards Code (Greening New Public Schools, Residential and Commercial Buildings)	GB-2	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Beyond Code: Voluntary Programs at the Local Level (Greening New Public Schools, Residential and Commercial Buildings)	GB-3	*Consistent.* The project's operations and maintenance building would be built in accordance with Title 11 CalGreen standards in place at the time building permits are obtained.
Greening Existing Buildings (Greening Existing Homes and Commercial Buildings)	GB-4	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Industry Sector		
Energy Efficiency and Co-Benefits Audits for Large Industrial Sources	I-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Oil and Gas Extraction GHG Emission Reduction	I-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduce GHG Emissions by 20% in Oil Refinery Sector	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
GHG Emissions Reduction from Natural Gas Transmission and Distribution	I-3	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Refinery Flare Recovery Process Improvements	I-4	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Work with the local air districts to evaluate amendments to their existing leak detection and repair rules for industrial facilities to include methane leaks	I-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Recycling and Waste Management Sector		
Landfill Methane Control Measure	RW-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Increasing the Efficiency of Landfill Methane Capture	RW-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Mandatory Commercial Recycling	RW-3	*Consistent.* During both construction and operation of the project, the project would comply with all state regulations related to solid waste generation, storage, and disposal, including the California Integrated Waste Management Act, as amended. During construction, all wastes would be recycled to the maximum extent possible.
Increase Production and Markets for Compost and Other Organics	RW-4	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Anaerobic/Aerobic Digestion	RW-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Extended Producer Responsibility	RW-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Environmentally Preferable Purchasing	RW-7	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Forests Sector		
Sustainable Forest Target	F-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
High Global Warming Potential Gases Sector		
Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing	H-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
SF_6 Limits in Non-Utility and Non-Semiconductor Applications	H-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Reduction of Perfluorocarbons in Semiconductor Manufacturing	H-3	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Limit High Global Warming Potential Use in Consumer Products	H-4	*Consistent.* The project's employees would use consumer products that would comply with the regulations that are in effect at the time of manufacture.
Air Conditioning Refrigerant Leak Test During Vehicle Smog Check	H-5	*Consistent.* Employees of the project would conduct air conditioning refrigerant leak tests during periodic vehicle smog checks.
Stationary Equipment Refrigerant Management Program – Refrigerant Tracking/Reporting/Repair Program	H-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Stationary Equipment Refrigerant Management Program – Specifications for Commercial and Industrial Refrigeration	H-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
SF_6 Leak Reduction Gas Insulated Switchgear	H-6	*Consistent.* The Proposed project would use gas insulated switchgear that would be subject to CARB regulations and meet the leak rate mandates.
40% reduction in methane and hydrofluorocarbon emissions	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
50% reduction in black carbon emissions	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Agriculture Sector		
Methane Capture at Large Dairies	A-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Source: CARB 2008, 2017b, 2022.
Notes: CARB = California Air Resources Board; EV = electric vehicle; GHG = greenhouse gas; project = 14800 W. Schulte Road Logistics Center project; SF_6 = sulfur hexafluoride

Based on the analysis in Table 19, the project would be consistent with the applicable strategies and measures in the Scoping Plan.

Project Consistency with Fresno Council of Government's Regional Transportation Plan/Sustainable Communities Strategy

The FCOG's RTP/SCS would also be considered an applicable plan adopted for the purpose of reducing GHGs from the land use and transportation sectors in Fresno County and was adopted after completion of a Program EIR, and approved by CARB in 2022 (FCOG 2022). Thus, a project could result in a significant impact due to a conflict with an applicable plan, policy, or regulation if it would be inconsistent with the adopted FCOG RTP/SCS. The GHG emission goals in the FCOG RTP/SCS are based on demographic data trends and projections that include household, employment, and total population statistics. Since the Solar Facility does not propose housing and would not result in a population increase, only the Solar Facility's contribution to employment needs to be considered.

The FCOG RTP/SCS estimates the total employment in Fresno County will be 69,700 in 2020 and 78,620 in 2030, or 8,920 additional jobs per year in that timeframe (FCOG 2022). The Solar Facility construction and decommissioning workforce employment would be temporary, lasting 18 months for construction, and is expected to come from the existing construction labor pool in Fresno County. The Solar Facility is anticipated to have up to 16 fulltime equivalent personnel starting in 2025. Therefore, the additional jobs projected for the Solar Facility would be well within the annual growth projection for the FCOG 2022 RTP/SCS. The Solar Facility would be consistent with the FCOG 2022 RTP/SCS, and impacts would be less than significant.

Project Consistency with Senate Bill 32 and Executive Order S-3-05

The project would not impede the attainment of the GHG reduction goals for 2030 or 2050 identified in EO S-3-05 and SB 32. As discussed in Section 3.2.2, EO S-3-05 establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory of meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014a).

CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014a). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014a):

> This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures,

> including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and EO S-3-05. This is confirmed in the 2030 Scoping Plan, which states (CARB 2017b):

> The Scoping Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while identifying new, technologically feasible, and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities.

Conclusion

The project is consistent with the Scoping Plan which promotes economic growth while achieving greater energy efficiency. The project would also be consistent with FCOG's 2022 RTP/SCS, SB 32, and EO S-3-05 by being consistent with GHG reduction strategies and policies, increasing the use of renewable energy, and implementing energy efficiency strategies. The project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the project's impacts with respect to GHG emissions would be **less than significant**.

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Heartland Solar Project
Construction Start Date	12/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.648752402721996, -120.39648375951309
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2525
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	3.00	1000sqft	0.07	3,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-1	Use Reclaimed Non-Potable Water

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.56	7.92	65.1	286	0.21	1.58	43.2	44.8	1.46	9.68	11.1	—	62,281	62,281	0.99	1.99	138	63,007
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.1	8.29	79.3	258	0.26	1.80	47.5	49.3	1.66	10.5	12.1	—	65,444	65,444	1.24	2.31	3.59	66,166
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.52	2.46	21.8	87.7	0.09	0.42	13.3	13.6	0.38	2.93	3.29	—	19,986	19,986	0.40	0.68	17.7	20,216
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.46	0.45	3.97	16.0	0.02	0.08	2.42	2.49	0.07	0.54	0.60	—	3,309	3,309	0.07	0.11	2.93	3,347

2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	7.64	7.47	46.8	286	0.19	0.63	42.6	43.2	0.61	9.53	10.1	—	60,020	60,020	0.88	1.99	138	60,774
2028	9.56	7.92	65.1	285	0.21	1.58	43.2	44.8	1.46	9.68	11.1	—	62,281	62,281	0.99	1.93	125	63,007
2050	0.18	0.15	2.51	5.72	0.02	0.03	3.99	4.02	0.03	0.73	0.77	—	3,236	3,236	0.03	0.25	0.32	3,311
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.13	2.10	24.6	79.8	0.10	0.74	9.76	10.3	0.67	2.27	2.80	—	16,421	16,421	0.44	0.39	0.66	16,548
2027	7.26	5.91	49.6	223	0.19	0.63	42.6	43.2	0.61	9.53	10.1	—	55,470	55,470	0.94	2.02	3.59	56,098
2028	10.1	8.29	79.3	258	0.26	1.80	47.5	49.3	1.66	10.5	12.1	—	65,444	65,444	1.24	2.31	3.51	66,166
2050	0.18	0.15	2.65	4.35	0.02	0.03	3.99	4.02	0.03	0.73	0.77	—	3,072	3,072	0.03	0.25	0.01	3,148
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.11	0.10	1.48	3.97	0.01	0.04	0.46	0.50	0.04	0.11	0.15	—	797	797	0.02	0.02	0.43	804
2027	2.52	2.46	21.8	87.7	0.09	0.37	13.3	13.6	0.35	2.93	3.29	—	19,986	19,986	0.40	0.68	17.7	20,216
2028	2.52	2.07	18.4	67.7	0.06	0.42	11.9	12.4	0.38	2.66	3.05	—	16,628	16,628	0.29	0.56	15.1	16,817
2050	0.10	0.08	1.41	2.54	0.01	0.02	2.09	2.11	0.02	0.39	0.41	—	1,692	1,692	0.02	0.14	0.08	1,733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.27	0.72	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	132	132	< 0.005	< 0.005	0.07	133
2027	0.46	0.45	3.97	16.0	0.02	0.07	2.42	2.49	0.06	0.54	0.60	—	3,309	3,309	0.07	0.11	2.93	3,347
2028	0.46	0.38	3.35	12.4	0.01	0.08	2.18	2.26	0.07	0.49	0.56	—	2,753	2,753	0.05	0.09	2.51	2,784
2050	0.02	0.01	0.26	0.46	< 0.005	< 0.005	0.38	0.39	< 0.005	0.07	0.07	—	280	280	< 0.005	0.02	0.01	287

2.3. Construction Emissions by Year, Mitigated

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

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

2027	7.64	7.47	46.8	286	0.19	0.63	42.6	43.2	0.61	9.53	10.1	—	60,020	60,020	0.88	1.99	138	60,774
2028	9.56	7.92	65.1	285	0.21	1.58	43.2	44.8	1.46	9.68	11.1	—	62,281	62,281	0.99	1.93	125	63,007
2050	0.18	0.15	2.51	5.72	0.02	0.03	3.99	4.02	0.03	0.73	0.77	—	3,236	3,236	0.03	0.25	0.32	3,311
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.13	2.10	24.6	79.8	0.10	0.74	9.76	10.3	0.67	2.27	2.80	—	16,421	16,421	0.44	0.39	0.66	16,548
2027	7.26	5.91	49.6	223	0.19	0.63	42.6	43.2	0.61	9.53	10.1	—	55,470	55,470	0.94	2.02	3.59	56,098
2028	10.1	8.29	79.3	258	0.26	1.80	47.5	49.3	1.66	10.5	12.1	—	65,444	65,444	1.24	2.31	3.51	66,166
2050	0.18	0.15	2.65	4.35	0.02	0.03	3.99	4.02	0.03	0.73	0.77	—	3,072	3,072	0.03	0.25	0.01	3,148
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.11	0.10	1.48	3.97	0.01	0.04	0.46	0.50	0.04	0.11	0.15	—	797	797	0.02	0.02	0.43	804
2027	2.52	2.46	21.8	87.7	0.09	0.37	13.3	13.6	0.35	2.93	3.29	—	19,986	19,986	0.40	0.68	17.7	20,216
2028	2.52	2.07	18.4	67.7	0.06	0.42	11.9	12.4	0.38	2.66	3.05	—	16,628	16,628	0.29	0.56	15.1	16,817
2050	0.10	0.08	1.41	2.54	0.01	0.02	2.09	2.11	0.02	0.39	0.41	—	1,692	1,692	0.02	0.14	0.08	1,733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.27	0.72	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	132	132	< 0.005	< 0.005	0.07	133
2027	0.46	0.45	3.97	16.0	0.02	0.07	2.42	2.49	0.06	0.54	0.60	—	3,309	3,309	0.07	0.11	2.93	3,347
2028	0.46	0.38	3.35	12.4	0.01	0.08	2.18	2.26	0.07	0.49	0.56	—	2,753	2,753	0.05	0.09	2.51	2,784
2050	0.02	0.01	0.26	0.46	< 0.005	< 0.005	0.38	0.39	< 0.005	0.07	0.07	—	280	280	< 0.005	0.02	0.01	287

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.18	0.17	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,762	7,764	2.36	0.16	1.83	7,871
Mit.	0.18	0.17	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,757	7,759	2.35	0.16	1.83	7,867

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.17	0.16	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,719	7,721	2.36	0.16	0.81	7,828
Mit.	0.17	0.16	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,715	7,717	2.36	0.16	0.81	7,824
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.13	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	2.00	7,637	7,639	2.35	0.15	1.11	7,745
Mit.	0.14	0.13	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	2.00	7,632	7,634	2.35	0.15	1.11	7,740
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.03	0.02	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.33	1,264	1,265	0.39	0.03	0.18	1,282
Mit.	0.03	0.02	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.33	1,264	1,264	0.39	0.03	0.18	1,281
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	—	362	362	0.01	0.01	1.05	366
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456

Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.18	0.17	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,762	7,764	2.36	0.16	1.83	7,871
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	—	320	320	0.01	0.01	0.03	323
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.17	0.16	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,719	7,721	2.36	0.16	0.81	7,828
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	—	237	237	0.01	0.01	0.33	239
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.14	0.13	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	2.00	7,637	7,639	2.35	0.15	1.11	7,745
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	39.3	39.3	< 0.005	< 0.005	0.05	39.6
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,222	1,222	0.20	0.02	—	1,234
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.03	0.02	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.33	1,264	1,265	0.39	0.03	0.18	1,282

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	—	362	362	0.01	0.01	1.05	366
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.18	0.17	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,757	7,759	2.35	0.16	1.83	7,867
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	—	320	320	0.01	0.01	0.03	323
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.17	0.16	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,715	7,717	2.36	0.16	0.81	7,824
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	—	237	237	0.01	0.01	0.33	239
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.14	0.13	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	2.00	7,632	7,634	2.35	0.15	1.11	7,740
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	39.3	39.3	< 0.005	< 0.005	0.05	39.6
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,222	1,222	0.20	0.02	—	1,234
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.03	0.02	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.33	1,264	1,264	0.39	0.03	0.18	1,281

3. Construction Emissions Details

3.1. Decommissioning (2050) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.12	3.77	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,445	1,445	< 0.005	< 0.005	0.15	1,446
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.17	0.17	< 0.005	0.05	0.05	—	369	369	0.01	0.06	0.01	387

Hauling	0.03	0.02	1.21	0.20	0.01	0.02	0.44	0.47	0.02	0.12	0.14	—	1,165	1,165	0.01	0.18	0.17	1,220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.12	2.40	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,280	1,280	< 0.005	< 0.005	< 0.005	1,281
Vendor	0.01	0.01	0.37	0.10	< 0.005	< 0.005	0.17	0.17	< 0.005	0.05	0.05	—	369	369	0.01	0.06	< 0.005	387
Hauling	0.03	0.02	1.29	0.20	0.01	0.02	0.44	0.47	0.02	0.12	0.14	—	1,166	1,166	0.01	0.18	< 0.005	1,220
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.07	1.48	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	720	720	< 0.005	< 0.005	0.03	721
Vendor	0.01	< 0.005	0.19	0.05	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	200	200	< 0.005	0.03	< 0.005	210
Hauling	0.02	0.01	0.69	0.11	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	632	632	0.01	0.10	0.04	662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.27	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	119	119	< 0.005	< 0.005	0.01	119
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	33.2	33.2	< 0.005	0.01	< 0.005	34.8
Hauling	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	105	105	< 0.005	0.02	0.01	110

3.2. Decommissioning (2050) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.12	3.77	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,445	1,445	< 0.005	< 0.005	0.15	1,446
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.17	0.17	< 0.005	0.05	0.05	—	369	369	0.01	0.06	0.01	387

Hauling	0.03	0.02	1.21	0.20	0.01	0.02	0.44	0.47	0.02	0.12	0.14	—	1,165	1,165	0.01	0.18	0.17	1,220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.12	2.40	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,280	1,280	< 0.005	< 0.005	< 0.005	1,281
Vendor	0.01	0.01	0.37	0.10	< 0.005	< 0.005	0.17	0.17	< 0.005	0.05	0.05	—	369	369	0.01	0.06	< 0.005	387
Hauling	0.03	0.02	1.29	0.20	0.01	0.02	0.44	0.47	0.02	0.12	0.14	—	1,166	1,166	0.01	0.18	< 0.005	1,220
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.07	1.48	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	720	720	< 0.005	< 0.005	0.03	721
Vendor	0.01	< 0.005	0.19	0.05	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	200	200	< 0.005	0.03	< 0.005	210
Hauling	0.02	0.01	0.69	0.11	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	632	632	0.01	0.10	0.04	662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.27	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	119	119	< 0.005	< 0.005	0.01	119
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	33.2	33.2	< 0.005	0.01	< 0.005	34.8
Hauling	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	105	105	< 0.005	0.02	0.01	110

3.3. Move-On (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046

Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.28	2.72	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	797	797	< 0.005	0.03	0.08	805

Vendor	0.02	0.01	0.66	0.17	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	629
Hauling	0.01	< 0.005	0.46	0.08	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	404	404	0.01	0.06	0.02	423
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.5	16.5	< 0.005	< 0.005	0.02	17.2
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.75	3.75	< 0.005	< 0.005	0.01	3.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.73	2.73	< 0.005	< 0.005	< 0.005	2.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.83	1.83	< 0.005	< 0.005	< 0.005	1.92

3.4. Move-On (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046
Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.28	2.72	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	797	797	< 0.005	0.03	0.08	805
Vendor	0.02	0.01	0.66	0.17	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	629
Hauling	0.01	< 0.005	0.46	0.08	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	404	404	0.01	0.06	0.02	423
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9

Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.5	16.5	< 0.005	< 0.005	0.02	17.2
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.75	3.75	< 0.005	< 0.005	0.01	3.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.73	2.73	< 0.005	< 0.005	< 0.005	2.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.83	1.83	< 0.005	< 0.005	< 0.005	1.92

3.5. Cleanup/Testing/Restoration (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423

Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.23	0.43	9.14	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,164	2,164	0.01	0.07	6.53	2,192
Vendor	0.01	0.01	0.34	0.09	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	344	344	0.01	0.05	0.70	360
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.21	0.57	5.80	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,914	1,914	0.01	0.07	0.17	1,936
Vendor	0.01	0.01	0.36	0.09	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	344	344	0.01	0.05	0.02	360
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.12	1.60	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	479	479	< 0.005	0.02	0.68	484
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	83.0	83.0	< 0.005	0.01	0.07	86.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.29	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	79.3	79.3	< 0.005	< 0.005	0.11	80.2
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.01	14.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Cleanup/Testing/Restoration (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—

Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.23	0.43	9.14	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,164	2,164	0.01	0.07	6.53	2,192
Vendor	0.01	0.01	0.34	0.09	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	344	344	0.01	0.05	0.70	360
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.21	0.57	5.80	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,914	1,914	0.01	0.07	0.17	1,936
Vendor	0.01	0.01	0.36	0.09	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	344	344	0.01	0.05	0.02	360
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.12	1.60	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	479	479	< 0.005	0.02	0.68	484
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	83.0	83.0	< 0.005	0.01	0.07	86.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.29	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	79.3	79.3	< 0.005	< 0.005	0.11	80.2
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.01	14.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Site Preparation and Grading (2026) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.88	2.11	20.4	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	5,976	5,976	0.03	0.21	0.62	6,040
Vendor	0.02	0.01	0.66	0.17	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	629
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.06	0.77	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	206	206	< 0.005	0.01	0.35	209
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.1	34.1	< 0.005	< 0.005	0.06	34.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.31	3.31	< 0.005	< 0.005	< 0.005	3.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Site Preparation and Grading (2026) - Mitigated

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

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

Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.88	2.11	20.4	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	5,976	5,976	0.03	0.21	0.62	6,040
Vendor	0.02	0.01	0.66	0.17	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	629
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.06	0.77	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	206	206	< 0.005	0.01	0.35	209
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.1	34.1	< 0.005	< 0.005	0.06	34.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.31	3.31	< 0.005	< 0.005	< 0.005	3.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Site Preparation and Grading (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.92	0.91	1.49	29.5	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	6,621	6,621	0.02	0.21	21.8	6,705
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.86	0.65	1.90	18.9	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	5,853	5,853	0.03	0.21	0.56	5,918
Vendor	0.02	0.01	0.62	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	589	589	0.01	0.09	0.03	614
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.18	0.35	4.39	0.00	0.00	1.29	1.29	0.00	0.30	0.30	—	1,248	1,248	0.01	0.04	1.93	1,263
Vendor	< 0.005	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	121	121	< 0.005	0.02	0.12	126
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.06	0.80	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	207	207	< 0.005	0.01	0.32	209
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Site Preparation and Grading (2027) - Mitigated

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

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

Off-Road	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.92	0.91	1.49	29.5	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	6,621	6,621	0.02	0.21	21.8	6,705
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.86	0.65	1.90	18.9	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	5,853	5,853	0.03	0.21	0.56	5,918
Vendor	0.02	0.01	0.62	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	589	589	0.01	0.09	0.03	614
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.18	0.35	4.39	0.00	0.00	1.29	1.29	0.00	0.30	0.30	—	1,248	1,248	0.01	0.04	1.93	1,263
Vendor	< 0.005	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	121	121	< 0.005	0.02	0.12	126
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.06	0.80	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	207	207	< 0.005	0.01	0.32	209
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Substation Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.20	3.93	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	883	883	< 0.005	0.03	2.90	894
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.26	123
Hauling	0.01	< 0.005	0.41	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.89	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.25	2.52	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	780	780	< 0.005	0.03	0.08	789
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.01	123
Hauling	0.01	< 0.005	0.44	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.02	413
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.10	1.28	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	363	363	< 0.005	0.01	0.56	367
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	52.7	52.7	< 0.005	0.01	0.05	55.1
Hauling	0.01	< 0.005	0.19	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	< 0.005	0.03	0.17	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	60.1	60.1	< 0.005	< 0.005	0.09	60.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.73	8.73	< 0.005	< 0.005	0.01	9.12
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.03	30.7

3.12. Substation Construction (2027) - Mitigated

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

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

Off-Road Equipm	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.20	3.93	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	883	883	< 0.005	0.03	2.90	894
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.26	123
Hauling	0.01	< 0.005	0.41	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.89	414

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.25	2.52	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	780	780	< 0.005	0.03	0.08	789
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.01	123
Hauling	0.01	< 0.005	0.44	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.02	413
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.10	1.28	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	363	363	< 0.005	0.01	0.56	367
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	52.7	52.7	< 0.005	0.01	0.05	55.1
Hauling	0.01	< 0.005	0.19	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	< 0.005	0.03	0.17	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	60.1	60.1	< 0.005	< 0.005	0.09	60.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.73	8.73	< 0.005	< 0.005	0.01	9.12
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.03	30.7

3.13. Substation Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.02	0.05	0.69	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	207	207	< 0.005	0.01	0.29	209
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.9	29.9	< 0.005	< 0.005	0.03	31.2
Hauling	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.02	0.09	105
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.2	34.2	< 0.005	< 0.005	0.05	34.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.94	4.94	< 0.005	< 0.005	< 0.005	5.17
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.6	16.6	< 0.005	< 0.005	0.02	17.4

3.14. Substation Construction (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.69	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	207	207	< 0.005	0.01	0.29	209
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.9	29.9	< 0.005	< 0.005	0.03	31.2
Hauling	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.02	0.09	105
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.2	34.2	< 0.005	< 0.005	0.05	34.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.94	4.94	< 0.005	< 0.005	< 0.005	5.17

Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.6	16.6	< 0.005	< 0.005	0.02	17.4

3.15. System Installation - Solar Facility (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.92	4.85	7.94	157	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	35,310	35,310	0.12	1.11	116	35,761
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
Hauling	0.03	0.01	0.83	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	1.77	828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.59	3.46	10.1	101	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	31,218	31,218	0.18	1.13	3.01	31,562
Vendor	0.02	0.01	0.62	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	589	589	0.01	0.09	0.03	614
Hauling	0.02	0.01	0.88	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	0.05	826
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.94	1.87	23.6	0.00	0.00	6.94	6.94	0.00	1.63	1.63	—	6,718	6,718	0.03	0.23	10.4	6,799
Vendor	0.01	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	122	122	< 0.005	0.02	0.12	128
Hauling	0.01	< 0.005	0.18	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	164	164	< 0.005	0.03	0.16	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.34	4.32	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,112	1,112	< 0.005	0.04	1.72	1,126
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.2	20.2	< 0.005	< 0.005	0.02	21.1
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.1	27.1	< 0.005	< 0.005	0.03	28.4

3.16. System Installation - Solar Facility (2027) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.92	4.85	7.94	157	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	35,310	35,310	0.12	1.11	116	35,761
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
Hauling	0.03	0.01	0.83	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	1.77	828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.59	3.46	10.1	101	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	31,218	31,218	0.18	1.13	3.01	31,562
Vendor	0.02	0.01	0.62	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	589	589	0.01	0.09	0.03	614
Hauling	0.02	0.01	0.88	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	0.05	826
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.94	1.87	23.6	0.00	0.00	6.94	6.94	0.00	1.63	1.63	—	6,718	6,718	0.03	0.23	10.4	6,799
Vendor	0.01	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	122	122	< 0.005	0.02	0.12	128
Hauling	0.01	< 0.005	0.18	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	164	164	< 0.005	0.03	0.16	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.34	4.32	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,112	1,112	< 0.005	0.04	1.72	1,126
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.2	20.2	< 0.005	< 0.005	0.02	21.1
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.1	27.1	< 0.005	< 0.005	0.03	28.4

3.17. System Installation - Solar Facility (2028) - Unmitigated

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

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

Off-Road Equipm	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.78	3.67	6.84	146	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	34,631	34,631	0.12	1.11	104	35,070
Vendor	0.02	0.01	0.56	0.15	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	574	574	0.01	0.09	1.17	601
Hauling	0.03	0.01	0.80	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	1.63	807

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	3.33	9.05	92.8	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	30,625	30,625	0.16	1.13	2.71	30,968
Vendor	0.02	0.01	0.60	0.15	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	574	574	0.01	0.09	0.03	600
Hauling	0.02	0.01	0.86	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	0.04	806
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.23	0.92	2.17	29.1	0.00	0.00	9.16	9.16	0.00	2.15	2.15	—	8,704	8,704	0.04	0.30	12.4	8,808
Vendor	0.01	< 0.005	0.16	0.04	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	157	157	< 0.005	0.02	0.14	164
Hauling	0.01	< 0.005	0.23	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	211	211	< 0.005	0.03	0.19	221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.17	0.40	5.31	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,441	1,441	0.01	0.05	2.05	1,458
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.0	26.0	< 0.005	< 0.005	0.02	27.2
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.9	34.9	< 0.005	0.01	0.03	36.6

3.18. System Installation - Solar Facility (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.78	3.67	6.84	146	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	34,631	34,631	0.12	1.11	104	35,070
Vendor	0.02	0.01	0.56	0.15	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	574	574	0.01	0.09	1.17	601
Hauling	0.03	0.01	0.80	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	1.63	807
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	3.33	9.05	92.8	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	30,625	30,625	0.16	1.13	2.71	30,968
Vendor	0.02	0.01	0.60	0.15	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	574	574	0.01	0.09	0.03	600
Hauling	0.02	0.01	0.86	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	0.04	806
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.23	0.92	2.17	29.1	0.00	0.00	9.16	9.16	0.00	2.15	2.15	—	8,704	8,704	0.04	0.30	12.4	8,808
Vendor	0.01	< 0.005	0.16	0.04	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	157	157	< 0.005	0.02	0.14	164
Hauling	0.01	< 0.005	0.23	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	211	211	< 0.005	0.03	0.19	221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.17	0.40	5.31	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,441	1,441	0.01	0.05	2.05	1,458
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.0	26.0	< 0.005	< 0.005	0.02	27.2
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.9	34.9	< 0.005	0.01	0.03	36.6

3.19. Gen-tie Line Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.20	3.93	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	883	883	< 0.005	0.03	2.90	894
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.26	123
Hauling	0.01	< 0.005	0.41	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.89	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.25	2.52	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	780	780	< 0.005	0.03	0.08	789
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.01	123
Hauling	0.01	< 0.005	0.44	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.02	413
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.10	1.23	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	350	350	< 0.005	0.01	0.54	354
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	50.9	50.9	< 0.005	0.01	0.05	53.2
Hauling	0.01	< 0.005	0.19	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	171	171	< 0.005	0.03	0.17	179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	58.0	58.0	< 0.005	< 0.005	0.09	58.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.43	8.43	< 0.005	< 0.005	0.01	8.80

Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.3	28.3	< 0.005	< 0.005	0.03	29.6

3.20. Gen-tie Line Installation (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.20	3.93	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	883	883	< 0.005	0.03	2.90	894
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.26	123
Hauling	0.01	< 0.005	0.41	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.89	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.25	2.52	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	780	780	< 0.005	0.03	0.08	789
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.01	123
Hauling	0.01	< 0.005	0.44	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.02	413
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.10	1.23	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	350	350	< 0.005	0.01	0.54	354
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	50.9	50.9	< 0.005	0.01	0.05	53.2
Hauling	0.01	< 0.005	0.19	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	171	171	< 0.005	0.03	0.17	179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	58.0	58.0	< 0.005	< 0.005	0.09	58.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.43	8.43	< 0.005	< 0.005	0.01	8.80
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.3	28.3	< 0.005	< 0.005	0.03	29.6

3.21. Gen-tie Line Installation (2028) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.06	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.32	225
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.1	32.1	< 0.005	< 0.005	0.03	33.6
Hauling	< 0.005	< 0.005	0.12	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	108	108	< 0.005	0.02	0.10	113
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.8	36.8	< 0.005	< 0.005	0.05	37.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.32	5.32	< 0.005	< 0.005	< 0.005	5.56
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.02	18.7

3.22. Gen-tie Line Installation (2028) - Mitigated

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

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

Off-Road Equipm	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.06	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.32	225
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.1	32.1	< 0.005	< 0.005	0.03	33.6
Hauling	< 0.005	< 0.005	0.12	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	108	108	< 0.005	0.02	0.10	113
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.8	36.8	< 0.005	< 0.005	0.05	37.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.32	5.32	< 0.005	< 0.005	< 0.005	5.56
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.02	18.7

3.23. Battery/Container Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.30	0.50	9.83	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,207	2,207	0.01	0.07	7.25	2,235
Vendor	0.03	0.02	0.82	0.22	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	824	824	0.01	0.12	1.85	862
Hauling	0.03	0.01	0.83	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	1.77	828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.22	0.63	6.30	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,951	1,951	0.01	0.07	0.19	1,973
Vendor	0.03	0.02	0.87	0.23	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	824	824	0.01	0.12	0.05	860
Hauling	0.02	0.01	0.88	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	0.05	826
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.11	0.11	0.21	2.65	0.00	0.00	0.78	0.78	0.00	0.18	0.18	—	753	753	< 0.005	0.03	1.16	762
Vendor	0.01	0.01	0.32	0.08	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	306	306	0.01	0.04	0.30	320
Hauling	0.01	< 0.005	0.32	0.05	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	293	293	< 0.005	0.05	0.28	307
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.04	0.48	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	0.19	126
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	50.7	50.7	< 0.005	0.01	0.05	53.0
Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	48.6	48.6	< 0.005	0.01	0.05	50.9

3.24. Battery/Container Installation (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.30	0.50	9.83	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,207	2,207	0.01	0.07	7.25	2,235
Vendor	0.03	0.02	0.82	0.22	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	824	824	0.01	0.12	1.85	862
Hauling	0.03	0.01	0.83	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	1.77	828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.22	0.63	6.30	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,951	1,951	0.01	0.07	0.19	1,973
Vendor	0.03	0.02	0.87	0.23	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	824	824	0.01	0.12	0.05	860
Hauling	0.02	0.01	0.88	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	0.05	826
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.21	2.65	0.00	0.00	0.78	0.78	0.00	0.18	0.18	—	753	753	< 0.005	0.03	1.16	762
Vendor	0.01	0.01	0.32	0.08	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	306	306	0.01	0.04	0.30	320
Hauling	0.01	< 0.005	0.32	0.05	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	293	293	< 0.005	0.05	0.28	307
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.04	0.48	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	0.19	126
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	50.7	50.7	< 0.005	0.01	0.05	53.0

Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	48.6	48.6	< 0.005	0.01	0.05	50.9

3.25. Battery/Container Installation (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.21	0.57	5.80	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,914	1,914	0.01	0.07	0.17	1,936
Vendor	0.03	0.02	0.83	0.22	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	803	803	0.01	0.12	0.04	840
Hauling	0.02	0.01	0.86	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	0.04	806
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.06	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	221	221	< 0.005	0.01	0.31	224
Vendor	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	89.6	89.6	< 0.005	0.01	0.08	93.7
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	85.8	85.8	< 0.005	0.01	0.08	89.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.7	36.7	< 0.005	< 0.005	0.05	37.1
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.01	15.5
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.01	14.9

3.26. Battery/Container Installation (2028) - Mitigated

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

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

Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.21	0.57	5.80	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,914	1,914	0.01	0.07	0.17	1,936
Vendor	0.03	0.02	0.83	0.22	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	803	803	0.01	0.12	0.04	840
Hauling	0.02	0.01	0.86	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	0.04	806
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.06	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	221	221	< 0.005	0.01	0.31	224
Vendor	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	89.6	89.6	< 0.005	0.01	0.08	93.7

Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	85.8	85.8	< 0.005	0.01	0.08	89.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.7	36.7	< 0.005	< 0.005	0.05	37.1
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.01	15.5
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.01	14.9

3.27. PG&E Tranquility Switching Station Upgrades (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915

Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.64	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	191	191	< 0.005	0.01	0.27	194
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.7	27.7	< 0.005	< 0.005	0.02	28.9
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	92.7	92.7	< 0.005	0.01	0.08	97.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.12	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.7	31.7	< 0.005	< 0.005	0.05	32.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.79
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.01	16.1

3.28. PG&E Tranquility Switching Station Upgrades (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.64	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	191	191	< 0.005	0.01	0.27	194
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.7	27.7	< 0.005	< 0.005	0.02	28.9
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	92.7	92.7	< 0.005	0.01	0.08	97.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.12	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.7	31.7	< 0.005	< 0.005	0.05	32.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.79
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.01	16.1

3.29. Underground Work (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.49	0.79	15.7	0.00	0.00	3.39	3.39	0.00	0.79	0.79	—	3,531	3,531	0.01	0.11	11.6	3,576
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.14	0.27	3.44	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	976	976	< 0.005	0.03	1.51	988
Vendor	0.01	< 0.005	0.18	0.05	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	< 0.005	0.03	0.17	185
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.05	0.63	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	162	162	< 0.005	0.01	0.25	164
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	0.03	30.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Underground Work (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.49	0.79	15.7	0.00	0.00	3.39	3.39	0.00	0.79	0.79	—	3,531	3,531	0.01	0.11	11.6	3,576
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.14	0.27	3.44	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	976	976	< 0.005	0.03	1.51	988
Vendor	0.01	< 0.005	0.18	0.05	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	< 0.005	0.03	0.17	185
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.05	0.63	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	162	162	< 0.005	0.01	0.25	164
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	0.03	30.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.20	0.02	—	1,234

Total	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.20	0.02	—	1,234

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.20	0.02	—	1,234
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.20	0.02	—	1,234

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Decommissioning	Demolition	1/1/2050	10/5/2050	5.00	198	—
Move-On	Site Preparation	12/1/2026	12/14/2026	5.00	10.0	—
Cleanup/Testing/Restoration	Site Preparation	1/27/2028	5/29/2028	5.00	88.0	—
Site Preparation and Grading	Grading	12/15/2026	4/15/2027	5.00	88.0	—
Substation Construction	Building Construction	5/17/2027	5/12/2028	5.00	260	—
System Installation - Solar Facility	Building Construction	9/17/2027	5/19/2028	5.00	176	—
Gen-tie Line Installation	Building Construction	5/25/2027	5/22/2028	5.00	260	—
Battery/Container Installation	Building Construction	6/25/2027	2/26/2028	5.00	176	—

PG&E Tranquility Switching Station Upgrades	Building Construction	1/27/2028	5/29/2028	5.00	88.0	—
Underground Work	Trenching	4/16/2027	9/16/2027	5.00	110	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74
Cleanup/Testing/Restoration	Tractors/Loaders/Backhoes	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40

Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31
Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38

Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40
Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40

Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29
PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40

PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74

Cleanup/Testing/Resto	Tractors/Loaders/Back	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31

Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40

Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40
Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29

PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	20.0	60.0	LDA,LDT1,LDT2
Move-On	Vendor	10.0	20.0	HHDT,MHDT
Move-On	Hauling	2.00	60.0	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	150	60.0	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	20.0	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	60.0	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	20.0	60.0	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	20.0	HHDT,MHDT
Substation Construction	Hauling	2.00	60.0	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	40.0	60.0	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	20.0	HHDT,MHDT
Decommissioning	Hauling	8.00	60.0	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	50.0	60.0	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	20.0	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	60.0	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	800	60.0	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	20.0	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	60.0	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	20.0	60.0	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	20.0	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	60.0	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	50.0	60.0	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	20.0	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	60.0	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	20.0	60.0	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	20.0	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	60.0	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	80.0	60.0	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	20.0	HHDT,MHDT
Underground Work	Hauling	0.00	60.0	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	20.0	60.0	LDA,LDT1,LDT2
Move-On	Vendor	10.0	20.0	HHDT,MHDT
Move-On	Hauling	2.00	60.0	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	150	60.0	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	20.0	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	60.0	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	20.0	60.0	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	20.0	HHDT,MHDT
Substation Construction	Hauling	2.00	60.0	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	40.0	60.0	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	20.0	HHDT,MHDT
Decommissioning	Hauling	8.00	60.0	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	50.0	60.0	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	20.0	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	60.0	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	800	60.0	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	20.0	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	60.0	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	20.0	60.0	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	20.0	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	60.0	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	50.0	60.0	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	20.0	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	60.0	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	20.0	60.0	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	20.0	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	60.0	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	80.0	60.0	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	20.0	HHDT,MHDT
Underground Work	Hauling	0.00	60.0	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

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

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Decommissioning	0.00	0.00	0.00	3,000	—
Move-On	—	—	26.3	0.00	—
Cleanup/Testing/Restoration	—	—	165	0.00	—
Site Preparation and Grading	—	—	2,412	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2050	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	36.0	0.00	0.00	9,386	529	0.00	0.00	137,970

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	36.0	0.00	0.00	9,386	529	0.00	0.00	137,970

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

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

0	0.00	4,500	1,500	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	13,211,616	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	13,211,616	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.2	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	62.7
AQ-PM	37.8
AQ-DPM	15.2
Drinking Water	75.2
Lead Risk Housing	78.0
Pesticides	86.7
Toxic Releases	17.8
Traffic	10.3
Effect Indicators	—

CleanUp Sites	58.2
Groundwater	71.8
Haz Waste Facilities/Generators	7.35
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	87.9
Cardio-vascular	57.6
Low Birth Weights	66.6
Socioeconomic Factor Indicators	—
Education	99.8
Housing	77.6
Linguistic	99.9
Poverty	99.3
Unemployment	99.6

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	0.30796869
Employed	2.014628513
Median HI	3.413319646
Education	—
Bachelor's or higher	0.808417811
High school enrollment	100
Preschool enrollment	19.49185166
Transportation	—

Auto Access	12.42140382
Active commuting	40.07442577
Social	—
2-parent households	60.47735147
Voting	1.360195047
Neighborhood	—
Alcohol availability	34.0177082
Park access	30.89952521
Retail density	1.809316053
Supermarket access	61.52957783
Tree canopy	3.27216733
Housing	—
Homeownership	22.10958553
Housing habitability	9.482869242
Low-inc homeowner severe housing cost burden	2.386757346
Low-inc renter severe housing cost burden	44.14217888
Uncrowded housing	20.37726165
Health Outcomes	—
Insured adults	2.463749519
Arthritis	0.0
Asthma ER Admissions	12.0
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	27.7

Cognitively Disabled	85.7
Physically Disabled	78.7
Heart Attack ER Admissions	7.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	90.3
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	14.1
Elderly	89.5
English Speaking	0.2
Foreign-born	96.1
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.7
Traffic Density	9.6
Traffic Access	0.0
Other Indices	—
Hardship	99.4
Other Decision Support	—

2016 Voting	9.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	85.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	16 workers for operations and maintenance monday through friday.
Operations: Landscape Equipment	No landscaping equipment.
Operations: Energy Use	O&M building is all-electric. Auxiliary energy use for BESS.

Operations: Water and Waste Water	outdoor water use for panel washing. This also amortized the construction and decommissioning water use.
Construction: Dust From Material Movement	Based on the project description.
Operations: Fleet Mix	Based on worker and water delivery mix.

Heartland Solar Project Onsite Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Heartland Solar Project Onsite
Construction Start Date	12/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.648752402721996, -120.39648375951309
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2525
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	3.00	1000sqft	0.07	3,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-1	Use Reclaimed Non-Potable Water

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.08	6.69	55.1	125	0.19	1.52	3.91	5.44	1.40	0.74	1.82	—	20,083	20,083	0.95	0.25	0.68	20,181
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.40	6.98	64.7	156	0.23	1.71	5.60	7.31	1.57	1.20	2.16	—	24,355	24,355	1.17	0.32	0.02	24,479
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.83	1.77	17.5	53.2	0.08	0.40	2.11	2.46	0.37	0.30	0.63	—	8,067	8,067	0.37	0.10	0.09	8,107
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.33	0.32	3.20	9.71	0.01	0.07	0.39	0.45	0.07	0.06	0.11	—	1,336	1,336	0.06	0.02	0.02	1,342

2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.19	5.09	35.0	117	0.16	0.56	3.88	4.44	0.53	0.74	1.26	—	17,118	17,118	0.83	0.23	0.68	17,207
2028	7.08	6.69	55.1	125	0.19	1.52	3.91	5.44	1.40	0.42	1.82	—	20,083	20,083	0.95	0.25	0.60	20,181
2050	0.16	0.14	1.06	1.95	< 0.005	0.01	1.69	1.70	0.01	0.17	0.18	—	298	298	0.02	0.01	< 0.005	302
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.72	1.70	23.2	61.1	0.10	0.72	3.97	4.69	0.65	1.20	1.85	—	9,914	9,914	0.43	0.10	< 0.005	9,955
2027	4.80	4.70	35.2	120	0.16	0.56	3.88	4.44	0.53	0.74	1.26	—	17,108	17,108	0.89	0.25	0.02	17,204
2028	7.40	6.98	64.7	156	0.23	1.71	5.60	7.31	1.57	0.59	2.16	—	24,355	24,355	1.17	0.32	0.02	24,479
2050	0.15	0.13	1.09	2.00	< 0.005	0.01	1.69	1.70	0.01	0.17	0.18	—	299	299	0.02	0.02	< 0.005	304
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.09	0.09	1.37	3.16	0.01	0.04	0.21	0.25	0.04	0.06	0.09	—	524	524	0.02	0.01	< 0.005	526
2027	1.80	1.77	17.5	53.2	0.08	0.35	2.11	2.46	0.33	0.30	0.63	—	8,067	8,067	0.37	0.10	0.09	8,107
2028	1.83	1.73	15.1	36.3	0.05	0.40	1.14	1.54	0.37	0.12	0.49	—	5,693	5,693	0.27	0.07	0.07	5,721
2050	0.08	0.07	0.58	1.07	< 0.005	< 0.005	0.86	0.87	< 0.005	0.09	0.09	—	162	162	0.01	0.01	< 0.005	164
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.25	0.58	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	86.7	86.7	< 0.005	< 0.005	< 0.005	87.1
2027	0.33	0.32	3.20	9.71	0.01	0.06	0.39	0.45	0.06	0.06	0.11	—	1,336	1,336	0.06	0.02	0.02	1,342
2028	0.33	0.32	2.75	6.63	0.01	0.07	0.21	0.28	0.07	0.02	0.09	—	942	942	0.05	0.01	0.01	947
2050	0.02	0.01	0.11	0.19	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	26.8	26.8	< 0.005	< 0.005	< 0.005	27.2

2.3. Construction Emissions by Year, Mitigated

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

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

2027	5.19	5.09	35.0	117	0.16	0.56	3.88	4.44	0.53	0.74	1.26	—	17,118	17,118	0.83	0.23	0.68	17,207
2028	7.08	6.69	55.1	125	0.19	1.52	3.91	5.44	1.40	0.42	1.82	—	20,083	20,083	0.95	0.25	0.60	20,181
2050	0.16	0.14	1.06	1.95	< 0.005	0.01	1.69	1.70	0.01	0.17	0.18	—	298	298	0.02	0.01	< 0.005	302
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.72	1.70	23.2	61.1	0.10	0.72	3.97	4.69	0.65	1.20	1.85	—	9,914	9,914	0.43	0.10	< 0.005	9,955
2027	4.80	4.70	35.2	120	0.16	0.56	3.88	4.44	0.53	0.74	1.26	—	17,108	17,108	0.89	0.25	0.02	17,204
2028	7.40	6.98	64.7	156	0.23	1.71	5.60	7.31	1.57	0.59	2.16	—	24,355	24,355	1.17	0.32	0.02	24,479
2050	0.15	0.13	1.09	2.00	< 0.005	0.01	1.69	1.70	0.01	0.17	0.18	—	299	299	0.02	0.02	< 0.005	304
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.09	0.09	1.37	3.16	0.01	0.04	0.21	0.25	0.04	0.06	0.09	—	524	524	0.02	0.01	< 0.005	526
2027	1.80	1.77	17.5	53.2	0.08	0.35	2.11	2.46	0.33	0.30	0.63	—	8,067	8,067	0.37	0.10	0.09	8,107
2028	1.83	1.73	15.1	36.3	0.05	0.40	1.14	1.54	0.37	0.12	0.49	—	5,693	5,693	0.27	0.07	0.07	5,721
2050	0.08	0.07	0.58	1.07	< 0.005	< 0.005	0.86	0.87	< 0.005	0.09	0.09	—	162	162	0.01	0.01	< 0.005	164
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.25	0.58	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	86.7	86.7	< 0.005	< 0.005	< 0.005	87.1
2027	0.33	0.32	3.20	9.71	0.01	0.06	0.39	0.45	0.06	0.06	0.11	—	1,336	1,336	0.06	0.02	0.02	1,342
2028	0.33	0.32	2.75	6.63	0.01	0.07	0.21	0.28	0.07	0.02	0.09	—	942	942	0.05	0.01	0.01	947
2050	0.02	0.01	0.11	0.19	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	26.8	26.8	< 0.005	< 0.005	< 0.005	27.2

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.16	0.16	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	67.8	69.8	1.16	0.01	0.80	102
Mit.	0.16	0.16	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	63.6	65.6	1.16	0.01	0.80	97.5

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.15	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	67.2	69.2	1.17	0.01	0.78	101
Mit.	0.15	0.15	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	63.0	65.0	1.17	0.01	0.78	97.1
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.13	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.00	64.1	66.1	1.16	0.01	0.79	97.9
Mit.	0.13	0.13	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.00	59.9	62.0	1.16	0.01	0.79	93.6
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	6%	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	10.6	11.0	0.19	< 0.005	0.13	16.2
Mit.	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	9.93	10.3	0.19	< 0.005	0.13	15.5
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	6%	< 0.5%	1%	—	4%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.09	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	0.02	12.5
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4

Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.16	0.16	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	67.8	69.8	1.16	0.01	0.80	102
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.08	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.1	11.1	0.01	< 0.005	< 0.005	12.1
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.15	0.15	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	67.2	69.2	1.17	0.01	0.78	101
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.06	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.99	7.99	< 0.005	< 0.005	0.01	8.65
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.13	0.13	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.00	64.1	66.1	1.16	0.01	0.79	97.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.43
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	10.6	11.0	0.19	< 0.005	0.13	16.2

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.09	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	0.02	12.5
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.16	0.16	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	63.6	65.6	1.16	0.01	0.80	97.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.08	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.1	11.1	0.01	< 0.005	< 0.005	12.1
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.15	0.15	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	63.0	65.0	1.17	0.01	0.78	97.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.06	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.99	7.99	< 0.005	< 0.005	0.01	8.65
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.13	0.13	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.00	59.9	62.0	1.16	0.01	0.79	93.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.43
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	9.93	10.3	0.19	< 0.005	0.13	15.5

3. Construction Emissions Details

3.1. Decommissioning (2050) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.9
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.6

Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	< 0.005	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.6
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	< 0.005	18.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.88	5.88	< 0.005	< 0.005	< 0.005	6.34
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	< 0.005	7.97
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.25	9.25	< 0.005	< 0.005	< 0.005	9.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	1.05
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.32
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.61

3.2. Decommissioning (2050) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.9
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.6

Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	< 0.005	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.6
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	< 0.005	18.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.88	5.88	< 0.005	< 0.005	< 0.005	6.34
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	< 0.005	7.97
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.25	9.25	< 0.005	< 0.005	< 0.005	9.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	1.05
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.32
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.61

3.3. Move-On (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046

Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.25	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.93	6.93	< 0.005	< 0.005	< 0.005	7.60

Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.21
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

3.4. Move-On (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046
Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.25	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.93	6.93	< 0.005	< 0.005	< 0.005	7.60
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.21

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

3.5. Cleanup/Testing/Restoration (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423

Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.03	0.38	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	17.3	17.3	0.01	< 0.005	0.03	18.6
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	11.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.04	0.53	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.6	16.6	0.01	< 0.005	< 0.005	18.2
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.03	4.03	< 0.005	< 0.005	< 0.005	4.34
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.72
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Cleanup/Testing/Restoration (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—

Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.03	0.38	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	17.3	17.3	0.01	< 0.005	0.03	18.6
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	11.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.04	0.53	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.6	16.6	0.01	< 0.005	< 0.005	18.2
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.03	4.03	< 0.005	< 0.005	< 0.005	4.34
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.72
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Site Preparation and Grading (2026) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.48	0.13	1.84	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	52.0	52.0	0.03	0.01	< 0.005	57.0
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Site Preparation and Grading (2026) - Mitigated

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

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

Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.48	0.13	1.84	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	52.0	52.0	0.03	0.01	< 0.005	57.0
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Site Preparation and Grading (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.51	0.10	1.23	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	53.0	53.0	0.02	0.01	0.09	56.9
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.12	1.71	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	50.8	50.8	0.03	0.01	< 0.005	55.8
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.02	0.29	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.5	10.5	0.01	< 0.005	0.01	11.5
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.72	3.72	< 0.005	< 0.005	< 0.005	3.90
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Site Preparation and Grading (2027) - Mitigated

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

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

Off-Road	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.51	0.10	1.23	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	53.0	53.0	0.02	0.01	0.09	56.9
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.12	1.71	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	50.8	50.8	0.03	0.01	< 0.005	55.8
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.02	0.29	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.5	10.5	0.01	< 0.005	0.01	11.5
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.72	3.72	< 0.005	< 0.005	< 0.005	3.90
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Substation Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.58
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	< 0.005	7.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.35
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.55
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40

3.12. Substation Construction (2027) - Mitigated

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

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

Off-Road Equipm	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.58
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	< 0.005	7.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.35
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.55
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40

3.13. Substation Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.87
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.97
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

3.14. Substation Construction (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.87
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.97
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

3.15. System Installation - Solar Facility (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.81	2.74	0.56	6.54	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	283	283	0.12	0.06	0.48	303
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.48	2.40	0.66	9.11	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	271	271	0.18	0.07	0.01	298
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.12	1.57	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	56.6	56.6	0.03	0.02	0.04	62.0
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.94
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.02	0.29	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.37	9.37	< 0.005	< 0.005	0.01	10.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.16. System Installation - Solar Facility (2027) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.81	2.74	0.56	6.54	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	283	283	0.12	0.06	0.48	303
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.48	2.40	0.66	9.11	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	271	271	0.18	0.07	0.01	298
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.12	1.57	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	56.6	56.6	0.03	0.02	0.04	62.0
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.94
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.02	0.29	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.37	9.37	< 0.005	< 0.005	0.01	10.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.17. System Installation - Solar Facility (2028) - Unmitigated

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

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

Off-Road Equipm	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.61	0.52	6.11	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	277	277	0.12	0.06	0.44	298
Vendor	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.01	18.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.35	2.28	0.62	8.50	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	265	265	0.16	0.07	0.01	291
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	< 0.005	18.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.63	0.15	1.93	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	73.2	73.2	0.04	0.02	0.05	78.9
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	< 0.005	5.11
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.03	0.35	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	0.01	< 0.005	0.01	13.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.48

3.18. System Installation - Solar Facility (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.61	0.52	6.11	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	277	277	0.12	0.06	0.44	298
Vendor	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.01	18.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.35	2.28	0.62	8.50	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	265	265	0.16	0.07	0.01	291
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	< 0.005	18.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.65	0.63	0.15	1.93	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	73.2	73.2	0.04	0.02	0.05	78.9
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	< 0.005	5.11
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.03	0.35	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	0.01	< 0.005	0.01	13.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.48

3.19. Gen-tie Line Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.58
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	< 0.005	7.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	3.23
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.32
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.53
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.38

3.20. Gen-tie Line Installation (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.58
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	< 0.005	7.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	3.23
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.32
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.53
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.38

3.21. Gen-tie Line Installation (2028) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	2.01
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.22. Gen-tie Line Installation (2028) - Mitigated

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

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

Off-Road Equipm	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	2.01
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.23. Battery/Container Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.03	0.41	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	17.7	17.7	0.01	< 0.005	0.03	19.0
Vendor	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.04	0.57	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.9	16.9	0.01	< 0.005	< 0.005	18.6
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	< 0.005	26.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06	0.06	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.34	6.34	< 0.005	< 0.005	< 0.005	6.95
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.43	9.43	< 0.005	< 0.005	< 0.005	9.89
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.15
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66

3.24. Battery/Container Installation (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.03	0.41	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	17.7	17.7	0.01	< 0.005	0.03	19.0
Vendor	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.04	0.57	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.9	16.9	0.01	< 0.005	< 0.005	18.6
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	< 0.005	26.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.34	6.34	< 0.005	< 0.005	< 0.005	6.95
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.43	9.43	< 0.005	< 0.005	< 0.005	9.89
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.15
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66

3.25. Battery/Container Installation (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.04	0.53	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.6	16.6	0.01	< 0.005	< 0.005	18.2
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	26.3
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	2.01
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.91
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19

3.26. Battery/Container Installation (2028) - Mitigated

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

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

Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.04	0.53	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.6	16.6	0.01	< 0.005	< 0.005	18.2
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	26.3
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	2.01
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.91

Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19

3.27. PG&E Tranquility Switching Station Upgrades (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915

Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.74
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21

3.28. PG&E Tranquility Switching Station Upgrades (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.74
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21

3.29. Underground Work (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.27	0.06	0.65	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	28.3	28.3	0.01	0.01	0.05	30.3
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.22	8.22	< 0.005	< 0.005	0.01	9.01
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.49
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Underground Work (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.27	0.06	0.65	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	28.3	28.3	0.01	0.01	0.05	30.3
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.22	8.22	< 0.005	< 0.005	0.01	9.01
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.49
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

Total	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Decommissioning	Demolition	1/1/2050	10/5/2050	5.00	198	—
Move-On	Site Preparation	12/1/2026	12/14/2026	5.00	10.0	—
Cleanup/Testing/Restoration	Site Preparation	1/27/2028	5/29/2028	5.00	88.0	—
Site Preparation and Grading	Grading	12/15/2026	4/15/2027	5.00	88.0	—
Substation Construction	Building Construction	5/17/2027	5/12/2028	5.00	260	—
System Installation - Solar Facility	Building Construction	9/17/2027	5/19/2028	5.00	176	—
Gen-tie Line Installation	Building Construction	5/25/2027	5/22/2028	5.00	260	—
Battery/Container Installation	Building Construction	6/25/2027	2/26/2028	5.00	176	—

PG&E Tranquility Switching Station Upgrades	Building Construction	1/27/2028	5/29/2028	5.00	88.0	—
Underground Work	Trenching	4/16/2027	9/16/2027	5.00	110	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74
Cleanup/Testing/Restoration	Tractors/Loaders/Backhoes	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40

Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31
Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38

Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40
Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40

Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29
PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40

PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74

Cleanup/Testing/Resto	Tractors/Loaders/Back	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31

Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40

Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40
Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29

PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	20.0	0.25	LDA,LDT1,LDT2
Move-On	Vendor	10.0	0.25	HHDT,MHDT
Move-On	Hauling	2.00	0.25	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	150	0.25	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	0.25	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	0.25	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	20.0	0.25	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	0.25	HHDT,MHDT
Substation Construction	Hauling	2.00	0.25	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	40.0	0.25	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	0.25	HHDT,MHDT
Decommissioning	Hauling	8.00	0.25	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	50.0	0.25	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	0.25	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	0.25	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	800	0.25	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	0.25	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	0.25	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	20.0	0.25	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	0.25	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	0.25	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	50.0	0.25	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	0.25	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	0.25	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	20.0	0.25	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	0.25	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	80.0	0.25	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	0.25	HHDT,MHDT
Underground Work	Hauling	0.00	0.25	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	20.0	0.25	LDA,LDT1,LDT2
Move-On	Vendor	10.0	0.25	HHDT,MHDT
Move-On	Hauling	2.00	0.25	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	150	0.25	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	0.25	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	0.25	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	20.0	0.25	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	0.25	HHDT,MHDT
Substation Construction	Hauling	2.00	0.25	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	40.0	0.25	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	0.25	HHDT,MHDT
Decommissioning	Hauling	8.00	0.25	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	50.0	0.25	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	0.25	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	0.25	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	800	0.25	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	0.25	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	0.25	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	20.0	0.25	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	0.25	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	0.25	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	50.0	0.25	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	0.25	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	0.25	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	20.0	0.25	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	0.25	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	80.0	0.25	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	0.25	HHDT,MHDT
Underground Work	Hauling	0.00	0.25	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

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

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Decommissioning	0.00	0.00	0.00	3,000	—
Move-On	—	—	26.3	0.00	—
Cleanup/Testing/Restoration	—	—	165	0.00	—
Site Preparation and Grading	—	—	2,412	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2050	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	36.0	0.00	0.00	9,386	9.00	0.00	0.00	2,346

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	36.0	0.00	0.00	9,386	9.00	0.00	0.00	2,346

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

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

0	0.00	4,500	1,500	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	71,616	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	71,616	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.2	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	62.7
AQ-PM	37.8
AQ-DPM	15.2
Drinking Water	75.2
Lead Risk Housing	78.0
Pesticides	86.7
Toxic Releases	17.8
Traffic	10.3
Effect Indicators	—

CleanUp Sites	58.2
Groundwater	71.8
Haz Waste Facilities/Generators	7.35
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	87.9
Cardio-vascular	57.6
Low Birth Weights	66.6
Socioeconomic Factor Indicators	—
Education	99.8
Housing	77.6
Linguistic	99.9
Poverty	99.3
Unemployment	99.6

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	0.30796869
Employed	2.014628513
Median HI	3.413319646
Education	—
Bachelor's or higher	0.808417811
High school enrollment	100
Preschool enrollment	19.49185166
Transportation	—

Auto Access	12.42140382
Active commuting	40.07442577
Social	—
2-parent households	60.47735147
Voting	1.360195047
Neighborhood	—
Alcohol availability	34.0177082
Park access	30.89952521
Retail density	1.809316053
Supermarket access	61.52957783
Tree canopy	3.27216733
Housing	—
Homeownership	22.10958553
Housing habitability	9.482869242
Low-inc homeowner severe housing cost burden	2.386757346
Low-inc renter severe housing cost burden	44.14217888
Uncrowded housing	20.37726165
Health Outcomes	—
Insured adults	2.463749519
Arthritis	0.0
Asthma ER Admissions	12.0
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	27.7

Cognitively Disabled	85.7
Physically Disabled	78.7
Heart Attack ER Admissions	7.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	90.3
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	14.1
Elderly	89.5
English Speaking	0.2
Foreign-born	96.1
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.7
Traffic Density	9.6
Traffic Access	0.0
Other Indices	—
Hardship	99.4
Other Decision Support	—

2016 Voting	9.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	85.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	16 workers for operations and maintenance monday through friday.
Operations: Landscape Equipment	No landscaping equipment.
Operations: Energy Use	O&M building is all-electric.

Operations: Water and Waste Water	outdoor water use for panel washing. This also amortized the construction and decommissioning water use.
Construction: Dust From Material Movement	Based on the project description.
Operations: Fleet Mix	Based on worker mix.

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Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at //sam.nrel.gov) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

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RESULTS

503,257,986 kWh/Year*

System output may range from 477,994,435 to 514,430,313 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)
January	3.35	25,091,067
February	4.40	29,187,165
March	6.09	44,284,136
April	6.87	47,439,556
May	7.52	52,592,181
June	8.27	55,019,431
July	8.04	53,432,435
August	7.78	51,695,249
September	7.13	47,045,352
October	5.81	41,170,010
November	4.25	30,123,676
December	3.45	26,177,727
Annual	**6.08**	**503,257,985**

Location and Station Identification

Requested Location	mendota, ca
Weather Data Source	Lat, Lng: 36.65, -120.38 7.2 mi

PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. IN NO EVENT SHALL DOE/NREL/ALLIANCE BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO CLAIMS ASSOCIATED WITH THE LOSS OF DATA OR PROFITS, WHICH MAY RESULT FROM ANY ACTION IN CONTRACT, NEGLIGENCE OR OTHER TORTIOUS CLAIM THAT ARISES OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE MODEL.

The energy output range is based on analysis of 30 years of historical weather data, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

Latitude	**36.65° N**
Longitude	**120.38° W**

PV System Specifications

DC System Size	**300000 kW**
Module Type	**Standard**
Array Type	**Fixed (open rack)**
System Losses	**14.08%**
Array Tilt	**20°**
Array Azimuth	**180°**
DC to AC Size Ratio	**1.2**
Inverter Efficiency	**96%**
Ground Coverage Ratio	**0.4**
Albedo	***From weather file***
Bifacial	**No (0)**
Monthly Irradiance Loss	**Jan Feb Mar Apr May June** **0% 0% 0% 0% 0% 0%** **July Aug Sept Oct Nov Dec** **0% 0% 0% 0% 0% 0%**

Performance Metrics

DC Capacity Factor	**19.1%**

Year	PG&E GHG Emission Factor	Avoided GHG Emissions
	lb CO_2e/MWh	$MTCO_2$
2019	206.00	
2020	198.07	
2021	190.15	-
2022	182.23	-
2023	174.31	-
2024	166.38	-
2025	158.46	-
2026	150.54	-
2027	142.61	-
2028	134.69	30,746.34
2029	126.77	28,937.73
2030	118.84	27,129.12
2031	110.92	25,320.51
2032	103.00	23,511.91
2033	95.08	21,703.30
2034	87.15	19,894.69
2035	79.23	18,086.08
2036	71.31	16,277.47
2037	63.38	14,468.87
2038	55.46	12,660.26
2039	47.54	10,851.65
2040	39.61	9,043.04
2041	31.69	7,234.43
2042	23.77	5,425.82
2043	15.85	3,617.22
2044	7.92	1,808.61
2045	0.00	0.00
	Total	**276,717.04**

Breaker (kV)	Number of Breakers	Pounds of SF_6	MT of SF_6	Leak Rate	Global Warming Potential	MT CO_2e
138	6	240	0.109	0.5%	23,900	13.01

Appendix B

Air Quality Impact Assessment

Table of Contents

Heartland Solar AAQA	2
Heartland BEEST2_2007-2011_ALLSUM	7
Heartland BEEST2_2007-2011_ALLGRF	56

Attainment Status - San Joaquin Valley Air Basin

Criteria Pollutants	Averaging Time	State Designation	Federal Designation
Ozone (O_3)	1-hour	Nonattainment/Severe	—
	8-hour	Nonattainment	Nonattainment/Extreme[1]
Nitrogen Dioxide (NO_2)	1-hour	Attainment	Attainment/Unclassified[2]
	Annual	Attainment	Attainment
Sulfur Dioxide (SO_2)	All	Attainment	Attainment/Unclassified[2]
Carbon Monoxide (CO)	All	Attainment/Unclassified[2]	Attainment/Unclassified[2]
Particulates (as PM_{10})	24-hour	Nonattainment	Attainment
	Annual	Nonattainment	—
Particulates (as $PM_{2.5}$)	24-hour	—	Nonattainment
	Annual	Nonattainment	Nonattainment
Lead (Pb)	All	Attainment	Attainment/Unclassified[2]
Sulfates (as SO_4)	24-hour	Attainment	—
Hydrogen Sulfide (H_2S)	1-hour	Unclassified[2]	—
Vinyl Chloride (C_2H_3Cl)	24-hour	Attainment	—
Visibility	8-hour	Unclassified[2]	—

Sources: SJVAPCD 2014a, CARB 2014, EPA 2015a

Notes:

[1] The 0.08 ppmv federal 8-hour ozone standard applied until 2008; 0.075 ppmv thereafter

[2] At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassified

Ambient Air Quality Standards

Criteria Pollutants	Averaging Time	California Standards		Federal Standards	
		ppmv	µg/m^3	ppmv	µg/m^3
Ozone (O_3)	1-hour	0.09	180	—	—
	8-hour	0.07	137	0.07	137
Nitrogen Dioxide (NO_2)	1-hour	0.18	339	0.100	188
	Annual	0.03	57	0.053	100
Sulfur Dioxide (SO_2)	1-hour	0.25	655	0.075	196
	3-hour Secondary	—	—	0.50	1,300
	24-hour	0.04	105	0.14	367
	Annual	—	—	0.03	79
Carbon Monoxide (CO)	1-hour	20	22,900	35	40,100
	8-hour	9	10,300	9	10,300
	Lake Tahoe (8-hr)	6	6,900	—	—
Particulates (as PM_{10})	24-hour	—	50	—	150
	Annual	—	20	—	—
Particulates (as $PM_{2.5}$)	24-hour	—	—	—	35
	Annual Primary	—	12	—	9
	Annual Secondary	—	—	—	15
Lead (Pb)	30-day	—	1.5	—	—
	3-month (rolling)	—	—	—	0.15
Sulfates (as SO_4)	24-hour	—	25	—	—
Hydrogen Sulfide (H_2S)	1-hour	0.03	42	—	—
Vinyl Chloride (C_2H_3Cl)	24-hour	0.01	26	—	—
Visibility Reducing Particles	8-hour	Extinction coefficient of 0.23 per km; visibility of 10 miles or more (0.07 to 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70%.		—	—

Source: CARB 2015c

Notes:

ppmv = parts per million by volume

µg/m^3 = micrograms per cubic meter

The 1.5 µg/m^3 federal quarterly lead standard applied until 2008; 0.15 µg/m^3 rolling 3-month average thereafter

For gases, ug/m^3 calculated from ppmv based on molecular weight and standard conditions:

Standard Temperature	25	°C for ambient air monitoring
Standard Molar Volume	24.465	liter/g-mole for ambient air monitoring

The thresholds of significance for Ambient Air Quality are based on the California Ambient Air Quality Standard (CAAQS) and National Ambient Air Quality Standard (NAAQS). A project would be considered to have a significant impact if its emissions are predicted to cause or contribute to a violation of an ambient air quality standard by exceeding any California Ambient Air Quality Standard (CAAQS) / National Ambient Air Quality Standard (NAAQS).

Conversion Chart - Based on State/Federal AAQS

Criteria Pollutants	Averaging Time	California Standards			Federal Standards		
		ppmv	µg/m^3	Factor	ppmv	µg/m^3	Factor
Ozone (O_3)	1-hour	0.09	180	2000	—	—	—
	8-hour	0.07	137	1957.143	0.07	137	1957.143
Nitrogen Dioxide (NO_2)	1-hour	0.18	339	1883.333	0.1	188	1880
	Annual	0.03	57	1900	0.053	100	1886.792
Sulfur Dioxide (SO_2)	1-hour	0.25	655	2620	0.075	196	2613.333
	3-hour Secondary	—	—	—	0.5	1300	2600
	24-hour	0.04	105	2625	0.14	367	2621.429
	Annual	—	—	—	0.03	78.64287	2621.429
Carbon Monoxide (CO)	1-hour	20	22900	1145.6	35	40100	1145.6
	8-hour	9	10300	1145.6	9	10300	1145.6
	Lake Tahoe (8-hr)	6	6900	1145.6	—	—	—
Particulates (as PM_{10})	24-hour	—	50	1	—	150	1
	Annual	—	20	1	—	—	—
Particulates (as $PM_{2.5}$)	24-hour	—	—	—	—	35	1
	Annual Primary	—	12	1	—	9	1
	Annual Secondary	—	—	—	—	15	1
Lead (Pb)	30-day	—	1.5	1	—	—	—
	3-month (rolling)	—	—	—	—	0.15	1
Sulfates (as SO_4)	24-hour	—	25	1	—	—	—
Hydrogen Sulfide (H_2S)	1-hour	0.03	41.78969	1392.99	—	—	—
Vinyl Chloride (C_2H_3Cl)	24-hour	0.01	25.54591	2554.591	—	—	—

SJVAPCD Significant Impact Levels

Pollutant	Averaging Period	SILs (µg/m^3)		
		Class I	Class II*	Class III
$PM_{2.5}$	24-hour	**	0.13	**
	Annual	**	1.2	**
Fugitive $PM_{2.5}$	24-hour	—	0.63	—
	Annual	—	2.5	—
PM_{10}	24-hour	0.2	5	—
	Annual	0.32	1	—
Fugitive PM_{10}	24-hour	—	10.4	—
	Annual	—	2.08	—
CO	1-hour	—	2000	—
	8-hour	—	500	—
NO_2	1-hour	—	7.5	—
	Annual	0.1	1	—
SO_2	1-hour	—	7.8	—
	3-hour	1	25	—
	24-hour	0.2	5	—
	Annual	0.08	1	—

Source: SJVAPCD APR-1925

* Only Class II SILs applicable for District use

Ambient Air Quality Analysis - Heartland Solar Project

Table 1. Max Emission Rates (lbs/day) for Project - Unmitigated

Max Rates	ROG	NO_X	CO	SO_X	PM_{10} - Exhaust	PM_{10} - Fugitive	$PM_{2.5}$ - Exhaust	$PM_{2.5}$ - Fugitive
	6.97	64.67	156.40	0.23	1.71	5.60	1.57	1.20
Total OnSite, lbs/day	6.97	64.67	156.40	0.23	1.71	5.60	1.57	1.20
Daily Max, g/s	0.11	1.02	2.46	0.004	0.03	0.09	0.02	0.02
Hourly Max lbs/hr	0.87	8.08	19.55	0.03	0.21	0.70	0.20	0.15

Note: Conversion assumes 8 hr workday

Table 2. AERMOD Maximum Impact X/Q, $(ug/m^3)/(g/s)$

Max 1-Hour	Max 3-Hour	Max 8-Hour	Max 24-Hour	Max Annual
30.17	22.20	19.66	12.61	2.65

Note: These concentrations are based on the AERMOD Results Summary Report

Table 3. Project Contribution Concentrations (ug/m3)

Pollutant	CAS No.	Hr. Max (g/s) (from Table 1)	X/Q (ug/m3)/(g/s) (from Table 2)	NO_X to NO_2 Conversion	Project Concentration (ug/m3)	Scaled Rate (lbs/hr)
1-hour CO	630080	2.46	30.17	–	74.31	19.550
8-hour CO	630080	2.46	19.66	–	48.42	17.595
1-hour NO_2	10102440	1.02	30.17	80%	24.58	8.084
Annual NO_2	10102440	1.02	2.65	100%	2.70	0.808
24-hour PM_{10} - Exhaust	85101	0.03	12.61	–	0.34	0.128
24-hour PM_{10} - Fugitive	85101	0.09	12.61	–	1.11	0.420
Annual PM_{10} - Exhaust	85101	0.03	2.65	–	0.07	0.021
Annual PM_{10} - Fugitive	85102	0.09	2.65	–	0.23	0.070
24-hour $PM_{2.5}$ - Exhaust	88101	0.02	12.61	–	0.31	0.118
24-hour $PM_{2.5}$ - Fugitive	88101	0.02	12.61	–	0.24	0.090
Annual $PM_{2.5}$ - Exhaust	88101	0.02	2.65	–	0.07	0.020
Annual $PM_{2.5}$ - Fugitive	88101	0.02	2.65	–	0.05	0.015
1-hour SO_2	7449095	0.004	30.17	–	0.11	0.029
3-hour SO_2	7449095	0.004	22.20	–	0.08	0.029
24-hour SO_2	7449095	0.004	12.61	–	0.05	0.017
Annual SO_2	7449095	0.004	2.65	–	0.01	0.003

Table 4. Level 1 AAQA for Heartland Solar Project

Impact Parameter	Applicable Standard	Project Area Maximum Background Concentration (Years 2021-2023)		Project Contribution (ug/m3)	Cumulative Concentration (ug/m3)	AAQS Threshold (ug/m3)	Step 1 Significance	SIL (ug/m3)	Step 2 Significance
		ppmv	ug/m^3						
1-hour CO	State	2.2	2,520	74.31	2,595	22,900	PASS	2000	Step 1
	Federal	2.2	2,520	74.31	2,595	40,100	PASS	2000	Step 1
8-hour CO	State	1.8	2,062	48.42	2,110	10,300	PASS	500	Step 1
	Federal	1.8	2,062	48.42	2,110	10,300	PASS	500	Step 1
1-hour NO_2	State	0.065	122	24.58	147	339	PASS	7.5	Step 1
	Federal	0.065	122	24.58	147	188	PASS	7.5	Step 1
Annual NO_2	State	0.012	23	2.70	25	57	PASS	1	Step 1
	Federal	0.012	23	2.70	25	100	PASS	1	Step 1
1-hour SO_2	State	0.008	21	0.11	21	655	PASS	7.5	Step 1
	Federal	0.008	21	0.11	21	196	PASS	7.8	Step 1
3-hour SO_2	Federal	0.003	7	0.08	7	1,300	PASS	25	Step 1
24-Hour SO_2	State	0.003	8	0.05	8	105	PASS	5	Step 1
	Federal	0.003	8	0.05	8	367	PASS	5	Step 1
Annual SO_2	Federal	0.0004	1	0.01	1	79	PASS	1	Step 1
24-hour PM_{10} - Exhaust	State	--	167	0.34	167	50	Step 2	5	PASS
	Federal	--	167	0.34	167	150	Step 2	5	PASS
24-hour PM_{10} - Fugitive	State	--	167	1.11	168	50	Step 2	10.4	PASS
	Federal	--	167	1.11	168	150	Step 2	10.4	PASS
Annual PM_{10} - Exhaust	State	--	44	0.07	44	20	Step 2	1	PASS
Annual PM_{10} - Fugitive	State	--	44	0.23	44	20	Step 2	2.08	PASS
24-hour $PM_{2.5}$ - Exhaust	Federal	--	65	0.31	66	35	Step 2	1.2	PASS
24-hour $PM_{2.5}$ - Fugitive	Federal	--	65	0.24	66	35	Step 2	2.5	PASS
Annual $PM_{2.5}$ - Exhaust	State	--	12.0	0.07	12.07	12	Step 2	0.13	PASS
	Federal*	--	12.0	0.07	12.07	9	Step 2	0.13	PASS
Annual $PM_{2.5}$ - Fugitive	State	--	12.0	0.05	12.05	12	Step 2	0.63	PASS
	Federal*	--	12.0	0.05	12.05	9	Step 2	0.63	PASS

Sources:

CARB. 2016. “Ambient Air Quality Standards.” May 4, 2016. Accessed August 2017. http://www.arb.ca.gov/research/aaqs/aaqs2.pdf.

CARB. 2017. “iADAM: Air Quality Data Statistics.” Accessed August 2017. http://www.arb.ca.gov/adam/topfour/topfour1.php.

SJVAPCD. 2014. APR 1925 (Policy for District Rule 2201 AAQA Modeling). April 2014.

Notes:

Annual PM2.5 federal monitoring data not available, therefore used state monitoring data. State SO2 data not available so federal data used

 *** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

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

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE = F
      * Model Uses NO WET DEPLETION. WETDPLT = F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses RURAL Dispersion Only.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: ALL

 **Model Calculates 4 Short Term Average(s) of: 1-HR   3-HR   8-HR 24-HR
     and Calculates PERIOD Averages

 **This Run Includes: 7043 Source(s);   1 Source Group(s); and   22511
Receptor(s)

                with: 0 POINT(s), including
                           0 POINTCAP(s) and   0 POINTHOR(s)
                 and: 7043 VOLUME source(s)
                 and: 0 AREA type source(s)
                 and: 0 LINE source(s)
                 and: 0 RLINE/RLINEXT source(s)
                 and: 0 OPENPIT source(s)
                 and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
                 and: 0 SWPOINT source(s)

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

 **The AERMET Input Meteorological Data Version Date:  21112

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

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    45.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      6.5 MB of RAM.

 **Input Runstream File:          C:\Users\apoll\Desktop\HRAs\Heartland Solar
4.16.25\Heartland BEEST2_2007-2011_ALL.DTA
 **Output Print File:             C:\Users\apoll\Desktop\HRAs\Heartland Solar
4.16.25\Heartland BEEST2_2007-2011_ALL.LST

 **File for Summary of Results:   C:\Users\apoll\Desktop\HRAs\Heartland Solar
4.16.25\Heartland BEEST2_2007-2011_ALL.SUM
 *** AERMOD - VERSION 24142  ***   ***
C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland Hydrogen\Heart ***
04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***       16:30:54

                                 PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

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

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

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

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

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

Surface file: C:\Users\apoll\Desktop\HRAs\mendota-mm5\Mendota_07-11.SFC
Met Version: 21112
Profile file: C:\Users\apoll\Desktop\HRAs\mendota-mm5\Mendota_07-11.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 99005 Upper air station no.: 66666
Name: UNKNOWN Name: UNKNOWN

Year: 2007 Year: 2007

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN

```
ALBEDO  REF WS   WD     HT  REF TA     HT
- - - -
```

```
1.00    4.60  290.   15.0  280.1    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 07 01 01 01   15.0 1  291.    5.10   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 24142  ***   ***
C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland Hydrogen\Heart ***
04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        16:30:54

                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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


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


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

ALL       1ST HIGHEST VALUE IS       2.65357 AT (  732417.41,  4052653.92,    66.01,
   66.01,    0.00)  DC
          2ND HIGHEST VALUE IS       2.38046 AT (  732438.88,  4052701.61,    65.82,
   65.82,    0.00)  DC
          3RD HIGHEST VALUE IS       2.34986 AT (  732440.61,  4052678.71,    65.89,
   65.89,    0.00)  DC
          4TH HIGHEST VALUE IS       2.30246 AT (  732238.50,  4052817.27,    65.82,
   65.82,    0.00)  DC
          5TH HIGHEST VALUE IS       2.29033 AT (  732437.15,  4052724.52,    65.75,
   65.75,    0.00)  DC
          6TH HIGHEST VALUE IS       2.15998 AT (  732442.34,  4052655.80,    65.98,
   65.98,    0.00)  DC
          7TH HIGHEST VALUE IS       2.09704 AT (  732435.42,  4052747.42,    65.68,
   65.68,    0.00)  DC
          8TH HIGHEST VALUE IS       2.03505 AT (  732393.53,  4052628.37,    66.16,
   66.16,    0.00)  DC
          9TH HIGHEST VALUE IS       2.02309 AT (  732238.78,  4052792.27,    65.89,
   65.89,    0.00)  DC
         10TH HIGHEST VALUE IS       1.99958 AT (  732417.98,  4052628.93,    66.11,
```

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

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

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

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

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	NETWORK TYPE	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF GRID-ID
ALL	HIGH	1ST HIGH VALUE IS	12.61090c ON 09012024:	AT (	732417.41, 4052653.92, 66.01, 66.01, 0.00)	DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

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

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

 A Total of   0 Fatal Error Message(s)
 A Total of   2574 Warning Message(s)
 A Total of   3492 Informational Message(s)

 A Total of   43824 Hours Were Processed

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 A Total of         3492 Calm Hours Identified

 A Total of            0 Missing Hours Identified (  0.00 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W187   14468       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 CN W734      42         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010218
 CN W734      45         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010221
 CN W734      48         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010224
 CN W733      48         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010224
 CN W732      48         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007010224
 CN W734      51         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010303
 CN W734      54         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010306
 CN W733      56         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010308
 CN W734      63         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010315
 CN W734      69         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010321
 CN W733      72         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010324
 CN W732      72         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007010324
 CN W734     180         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010812
 CN W734     183         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010815
 CN W733     184         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010816
 CN W734     192         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010824
 CN W733     192         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010824
 CN W732     192         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007010824
 CN W734     195         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010903
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 CN W734     198         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010906
 CN W733     200         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010908
 CN W734     201         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010909
 CN W734     204         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010912
 CN W734     207         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010915
 CN W733     208         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010916
 CN W734     210         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010918
 CN W734     213         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010921
 CN W733     216         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010924
 CN W732     216         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007010924
 CN W734     315         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011403
 CN W734     318         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011406
 CN W733     320         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011408
 CN W734     324         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011412
 CN W734     327         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011415
 CN W733     328         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011416
 CN W734     330         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011418
 CN W734     336         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011424
 CN W733     336         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011424
 CN W732     336         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007011424
 CN W734     339         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011503
 CN W734     351         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011515
 CN W733     352         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011516
 CN W734     354         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011518
 CN W734     357         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011521
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 CN W733     360         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011524
 CN W732     360         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007011524
 CN W734     363         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011603
 CN W734     366         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011606
 CN W733     368         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011608
 CN W734     369         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011609
 CN W734     372         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011612
 CN W734     375         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011615
 CN W733     376         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011616
 CN W734     381         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011621
 CN W732     384         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007011624
 CN W734     423         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011815
 CN W734     516         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012212
 CN W734     519         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012215
 CN W733     520         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007012216
 CN W734     540         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012312
 CN W734     549         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012321
 CN W734     552         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012324
 CN W733     552         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007012324
 CN W734     555         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012403
 CN W734     588         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012512
 CN W734     591         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012515
 CN W733     592         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007012516
 CN W734     597         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012521
 CN W734     615         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012615
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 CN W734     663         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012815
 CN W734     666         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012818
 CN W734     753         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020109
 CN W734     756         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020112
 CN W733     760         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020116
 CN W734     771         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020203
 CN W734     774         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020206
 CN W733     776         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020208
 CN W734     777         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020209
 CN W732     792         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007020224
 CN W734     801         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020309
 CN W734     804         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020312
 CN W734     807         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020315
 CN W733     808         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020316
 CN W734     810         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020318
 CN W732     816         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007020324
 CN W734     828         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020412
 CN W734     831         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020415
 CN W733     832         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020416
 CN W734     834         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020418
 CN W734     837         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020421
 CN W733     840         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020424
 CN W732     840         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007020424
 CN W734     876         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020612
 CN W734     879         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020615
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 CN W734    1017         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021209
 CN W734    1140         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021712
 CN W734    1143         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021715
 CN W733    1144         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007021716
 CN W734    1146         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021718
 CN W734    1149         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021721
 CN W732    1152         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007021724
 CN W734    1308         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007022412
 CN W734    1380         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007022712
 CN W734    1476         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007030312
 CN W734    1788         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007031612
 CN W733    1792         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007031616
 CN W734    1860         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007031912
 CN W734    1863         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007031915
 CN W733    1864         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007031916
 CN W734    2028         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007032612
 CN W734    2310         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007040706
 CN W734    2478         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007041406
 CN W734    2484         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007041412
 CN W734    2607         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007041915
 CN W734    2625         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042009
 CN W734    2628         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042012
 CN W733    2632         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007042016
 CN W734    2649         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042109
 CN W734    2652         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042112
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 CN W734    2655         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042115
 CN W733    2656         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007042116
 CN W734    3033         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050709
 CN W734    3036         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050712
 CN W733    3040         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007050716
 CN W734    3051         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050803
 CN W734    3057         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050809
 CN W734    3060         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050812
 CN W734    3063         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050815
 CN W733    3064         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007050816
 CN W732    3072         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007050824
 CN W734    3081         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050909
 CN W734    3084         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050912
 CN W733    3088         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007050916
 CN W734    3108         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007051012
 CN W734    3111         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007051015
 CN W733    3112         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007051016
 CN W734    3126         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007051106
 CN W734    3132         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007051112
 CN W733    3136         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007051116
 CN W734    3447         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052415
 CN W733    3448         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052416
 CN W734    3450         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052418
 CN W734    3468         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052512
 CN W734    3471         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052515
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 CN W733   3472   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052516
 CN W734   3492   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052612
 CN W734   3495   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052615
 CN W733   3496   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052616
 CN W734   3498   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052618
 CN W732   3504   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007052624
 CN W734   3513   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052709
 CN W734   3516   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052712
 CN W734   3519   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052715
 CN W733   3520   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052716
 CN W734   3540   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052812
 CN W734   3543   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052815
 CN W733   3544   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052816
 CN W734   3558   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052906
 CN W734   3564   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052912
 CN W734   3567   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052915
 CN W733   3568   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052916
 CN W734   3570   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052918
 CN W732   3576   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007052924
 CN W734   3588   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053012
 CN W734   3591   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053015
 CN W733   3592   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007053016
 CN W734   3594   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053018
 CN W734   3612   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053112
 CN W734   3615   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053115

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 CN W733    3616         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007053116
 CN W734    3633         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060109
 CN W734    3636         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060112
 CN W734    3639         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060115
 CN W733    3640         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007060116
 CN W734    3657         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060209
 CN W734    3660         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060212
 CN W734    3663         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060215
 CN W733    3664         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007060216
 CN W734    3684         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060312
 CN W733    3688         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007060316
 CN W734    3807         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060815
 CN W733    3808         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007060816
 CN W734    3810         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060818
 CN W734    3972         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061512
 CN W734    3975         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061515
 CN W733    3976         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007061516
 CN W734    3996         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061612
 CN W734    4044         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061812
 CN W734    4047         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061815
 CN W733    4048         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007061816
 CN W734    4050         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061818
 CN W734    4059         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061903
 CN W734    4065         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061909
 CN W734    4068         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061912
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 CN W734   4071   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061915
 CN W733   4072   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007061916
 CN W732   4080   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007061924
 CN W734   4092   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007062012
 CN W734   4095   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007062015
 CN W733   4096   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007062016
 CN W734   4452   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070512
 CN W734   4455   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070515
 CN W733   4456   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007070516
 CN W734   4458   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070518
 CN W734   4473   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070609
 CN W734   4476   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070612
 CN W734   4479   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070615
 CN W733   4480   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007070616
 CN W734   4482   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070618
 CN W734   4500   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070712
 CN W734   4503   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070715
 CN W733   4504   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007070716
 CN W734   4524   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070812
 CN W734   4527   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070815
 CN W733   4528   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007070816
 CN W734   4530   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070818
 CN W732   4536   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007070824
 CN W734   4539   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070903
 CN W734   4545   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070909

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 CN W734    4548         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070912
 CN W733    4552         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007070916
 CN W734    4572         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071012
 CN W734    4575         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071015
 CN W733    4576         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007071016
 CN W734    4596         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071112
 CN W733    4600         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007071116
 CN W734    4620         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071212
 CN W734    4623         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071215
 CN W734    4668         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071412
 CN W734    4671         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071415
 CN W733    4672         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007071416
 CN W734    4740         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071712
 CN W734    4743         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007071715
 CN W733    4744         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007071716
 CN W734    4836         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072112
 CN W734    4839         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072115
 CN W733    4840         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007072116
 CN W734    4908         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072412
 CN W734    4932         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072512
 CN W734    4935         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072515
 CN W733    4936         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734    4956         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072612
 CN W734    4959         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072615
 CN W733    4960         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007072616
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 CN W734    4980         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733    4984         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007072716
 CN W734    5076         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007073112
 CN W734    5079         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007073115
 CN W733    5080         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007073116
 CN W734    5082         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007073118
 CN W732    5088         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734    5091         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080103
 CN W734    5094         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733    5096         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007080108
 CN W734    5097         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734    5100         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734    5103         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733    5104         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734    5106         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080118
 CN W732    5112         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007080124
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 CN W734    5124         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080212
 CN W734    5127         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080215
 CN W733    5128         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007080216
 CN W734    5130         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080218
 CN W732    5136         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007080224
 CN W734    5148         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080312
 CN W734    5151         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080315
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 CN W733   5152   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007080316
 CN W734   5268   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080812
 CN W734   5271   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   5272   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   5292   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080912
 CN W734   5295   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080915
 CN W733   5296   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   5319   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007081015
 CN W733   5320   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007081016
 CN W734   5340   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   5343   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007081115
 CN W733   5344   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007081116
 CN W734   5532   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007081912
 CN W734   5535   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007081915
 CN W733   5536   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007081916
 CN W734   5556   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007082012
 CN W734   5628   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   5631   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   5632   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2007082612
 CN W734   5703   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007082615
 CN W733   5704   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007082616

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 CN W734    5724         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734    5727         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733    5728         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W733    5752         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2007082824
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2007082912
 CN W734    5775         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007082915
 CN W733    5776         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007082916
 CN W734    5778         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2007090609
 CN W734    5964         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007090612
 CN W733    5968         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734    5988         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007090712
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2007090812
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2007090906
 CN W734    6036         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007090912
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 CN W733   6040   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007090916
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2007090918
 CN W732   6048   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734   6060   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   6063   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007091015
 CN W733   6064   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007091016
 CN W734   6132   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007091312
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 CN W733   6136   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007091316
 CN W734   6306   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   6420   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   6423   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   6424   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   6456   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007092624
 CN W734   6468   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007092712

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 CN W733    6472         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2007093016
 CN W734    6546         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007093018
 CN W732    6552         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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2007100715
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2007100716
 CN W734    6714         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007100718
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2007100812
 CN W734    6735         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007100815
 CN W733    6736         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007100816
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2007100903
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2007100906
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2007101118
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 CN W734    6900         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007101512
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 CN W734    6972         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2007102621
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2007102821
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2007102903
 CN W734    7230         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007102906
 CN W733    7232         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007102908
 CN W734    7236         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007102912
 CN W734    7239         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007102915
 CN W733    7240         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007102916
 CN W732    7248         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007102924
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 CN W733   7392   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007110424
 CN W732   7392   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734   7455   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007110715
 CN W733   7456   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007110716
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 CN W733   7504   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007110916
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2007111109
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2007111706
 CN W734   7692   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111712
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2007111716
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2007111718

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 CN W734    7701         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111721
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2007111724
 CN W732    7704         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007111724
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2007111818
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2007111912
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2007112112
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2007112115
 CN W733    7792         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112116
 CN W734    7794         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112118
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2007112418
 CN W734    7869         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112421
 CN W734    7872         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112424
 CN W733    7872         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112424
 CN W732    7872         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007112424
 CN W734    7875         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112503
 CN W734    7878         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112506
 CN W733    7880         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112508
 CN W734    7881         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112509
 CN W734    7884         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112512
 CN W734    7887         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112515
 CN W733    7888         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112516
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 CN W734   7890   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112518
 CN W734   7893   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112521
 CN W734   7896   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112524
 CN W733   7896   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112524
 CN W732   7896   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007112524
 CN W734   7926   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112706
 CN W734   7929   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112709
 CN W734   7959   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112815
 CN W733   7960   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112816
 CN W734   8028   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   8031   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120115
 CN W733   8032   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007120116
 CN W734   8100   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120412
 CN W734   8103   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120415
 CN W733   8104   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007120416
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2007120609
 CN W734   8148   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120612
 CN W734   8292   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121212
 CN W734   8295   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121215
 CN W733   8296   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121216
 CN W734   8340   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121412
 CN W734   8343   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121415
 CN W733   8344   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121416
 CN W734   8352   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121424
 CN W734   8355   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121503

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 CN W734    8358         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121506
 CN W733    8360         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121508
 CN W734    8367         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121515
 CN W734    8370         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121518
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2007121521
 CN W734    8376         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121524
 CN W733    8376         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121524
 CN W732    8376         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007121524
 CN W734    8379         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121603
 CN W734    8382         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121606
 CN W733    8384         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121608
 CN W734    8385         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121609
 CN W734    8388         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121612
 CN W732    8400         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007121624
 CN W734    8532         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122212
 CN W734    8535         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122215
 CN W733    8536         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007122216
 CN W734    8562         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122318
 CN W734    8661         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122721
 CN W734    8682         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122818
 CN W734    8688         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122824
 CN W733    8688         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007122824
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2007122903
 CN W734    8694         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122906
 CN W733    8696         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007122908
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2007122921
 CN W734    8712         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122924
 CN W733    8712         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007122924
 CN W732    8712         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007122924
 CN W734    8715         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007123003
 CN W734    8751         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007123115
 CN W734    8931         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008010803
 CN W734    8964         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008010912
 CN W734    8991         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011015
 CN W734    8994         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011018
 CN W734    8997         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011021
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 CN W733    9000         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2008011206
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2008011409
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2008011412
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2008011415
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2008011416
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2008011715
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2008011812
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2008011815
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2008011816
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2008011818
 CN W734    9189         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011821
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2008011824
 CN W732   9192   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734   9207   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   9213   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011921
 CN W734   9216   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011924
 CN W733   9216   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008011924
 CN W732   9216   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008011924
 CN W734   9219   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008012003
 CN W734   9222   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008012006
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2008012008
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2008012009
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2008012106
 CN W734   9276   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008012212
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2008012312
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2008012318
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2008012912
 CN W733   9448   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008012916
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2008021612
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2008021615
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2008021616
 CN W734   9903   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008021715
 CN W733   9904   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008021716

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2008021924
 CN W734    9966         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008022006
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2008022309
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2008022612
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2008030621
 CN W734   10428         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2008031506
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2008031508
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2008040112
 CN W734   10959         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2008040116
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2008040224
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 CN W733   10992         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   11244         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008041312
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 CN W734   11775         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008050515
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2008052715
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 CN W734   12327         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008052815
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2008061412
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2008061416
 CN W732   12744         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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2008062709
 CN W734   13044         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   13068         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   13072         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008062816
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 CN W734   13095         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   13312         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   13332         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008070912
 CN W734   13335         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008070915
 CN W734   13356         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071012
 CN W734   13359         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071015
 CN W734   13380         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071112
 CN W734   13383         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071115
 CN W733   13384         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008071116
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2008071118
 CN W732   13392         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008071124
 CN W734   13398         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071206
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 CN W734   13407         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   13408         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   13410         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071218
 CN W732   13416         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734   13428         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   13431         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071315
 CN W733   13432         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008071316
 CN W734   13449         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   13452         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071412
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2008071415
 CN W733   13456         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2008071612
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2008071615
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2008071912
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 CN W733   13576         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008071916
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 CN W734   13596         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008072012
 CN W734   13599         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008072015
 CN W733   13600         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008072016
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2008072712
 CN W734   13767         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008072715
 CN W733   13768         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008072716
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 CN W734   13836   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   13839   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   13840   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   13983   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   13984   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2008080715
 CN W733   14032   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2008081315
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 CN W734   14199   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008081415

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 CN W734   14223         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2008081516
 CN W734   14232         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2008081612
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2008081618
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2008081624
 CN W732   14256         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008081624
 CN W734   14265         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008081709
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2008081712
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2008081716
 CN W732   14280         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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2008082012
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2008082016
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 CN W733   14416         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   14418         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008082318
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 CN W732   14424         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W733   14440         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   14535         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   14536         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2008082916
 CN W734   14562         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W732   14568         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734   14775         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008090715
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 CN W734   15657         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2008102415
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2008102521
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2008102524
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2008102612
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2008102924
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2008111616
 CN W734   16470         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111706
 CN W733   16472         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008111708
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2008112316
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 CN W734   16644         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112412
 CN W734   16671         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112515
 CN W734   16674         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112518
 CN W734   16767         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112915
 CN W733   16768         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008112916
 CN W734   16770         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112918
 CN W734   16773         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112921
 CN W734   16908         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120512
 CN W734   16911         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120515
```

 CN W733   16912   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120516
 CN W734   16917   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120521
 CN W734   16920   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120524
 CN W733   16920   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120524
 CN W732   16920   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008120524
 CN W734   16932   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120612
 CN W734   16935   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120615
 CN W733   16936   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120616
 CN W734   16938   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120618
 CN W734   16941   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120621
 CN W734   16944   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120624
 CN W733   16944   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120624
 CN W732   16944   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008120624
 CN W734   16947   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120703
 CN W733   16952   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120708
 CN W734   17004   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120912
 CN W734   17007   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120915
 CN W733   17008   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120916
 CN W734   17010   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120918
 CN W734   17013   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120921
 CN W733   17016   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120924
 CN W732   17016   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008120924
 CN W734   17025   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121009
 CN W734   17028   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121012
 CN W734   17031   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121015

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 CN W733   17032         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008121016
 CN W734   17034         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121018
 CN W734   17037         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121021
 CN W734   17040         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121024
 CN W733   17040         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008121024
 CN W732   17040         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008121024
 CN W734   17061         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121121
 CN W734   17175         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121615
 CN W734   17220         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121812
 CN W734   17223         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121815
 CN W733   17224         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008121816
 CN W734   17283         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122103
 CN W734   17286         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122106
 CN W733   17288         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008122108
 CN W734   17313         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122209
 CN W734   17316         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122212
 CN W734   17340         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122312
 CN W734   17343         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122315
 CN W733   17344         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008122316
 CN W734   17436         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122712
 CN W734   17439         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122715
 CN W733   17440         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008122716
 CN W734   17442         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122718
 CN W734   17445         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122721
 CN W734   17448         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122724
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 CN W733   17448   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008122724
 CN W732   17448   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008122724
 CN W734   17487   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122915
 CN W734   17568   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010124
 CN W734   17571   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010203
 CN W734   17643   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010503
 CN W734   17646   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010506
 CN W733   17648   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009010508
 CN W734   17655   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010515
 CN W734   17691   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010703
 CN W734   17724   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010812
 CN W734   17769   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011009
 CN W734   17772   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011012
 CN W734   17775   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011015
 CN W733   17776   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011016
 CN W734   17778   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011018
 CN W734   17781   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011021
 CN W734   17784   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011024
 CN W733   17784   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011024
 CN W732   17784   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011024
 CN W734   17787   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011103
 CN W734   17790   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011106
 CN W733   17792   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011108
 CN W734   17793   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011109
 CN W732   17808   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011124

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 CN W734   17820         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011212
 CN W734   17823         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011215
 CN W733   17824         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011216
 CN W734   17826         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011218
 CN W734   17829         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011221
 CN W733   17832         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011224
 CN W732   17832         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011224
 CN W734   17844         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011312
 CN W734   17847         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011315
 CN W733   17848         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011316
 CN W734   17871         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011415
 CN W733   17872         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011416
 CN W734   17874         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011418
 CN W734   17877         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011421
 CN W734   17880         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011424
 CN W733   17880         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011424
 CN W732   17880         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011424
 CN W734   17883         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011503
 CN W734   17892         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011512
 CN W734   17895         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011515
 CN W733   17896         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011516
 CN W734   17898         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011518
 CN W734   17901         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011521
 CN W732   17904         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011524
 CN W734   17919         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011615
```

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 CN W734   17928         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011624
 CN W734   17949         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011721
 CN W734   17952         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011724
 CN W733   17952         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011724
 More Than 999 Warning Messages Found.  See ERRORFIL Output for the Remainder.
```

```
* AERMOD (24142 ): C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland
Hydrogen\Heart     04/16/25
* AERMET ( 21112):
      16:30:54
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
ADJ_U*
*         PLOT FILE OF PERIOD VALUES AVERAGED ACROSS   0 YEARS FOR SOURCE GROUP: ALL

*         FOR A TOTAL OF 22511 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP
     NUM HRS   NET ID
* _____________  _____________  _____________   ______   ______   ______  ______
_________  ________  _________
  733473.07000 4060491.37000       0.26723    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733473.53000 4060466.46000       0.28727    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733473.99000 4060441.55000       0.31239    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733474.46000 4060416.64000       0.34513    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733474.92000 4060391.73000       0.38823    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733475.38000 4060366.82000       0.44319    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733475.84000 4060341.91000       0.50904    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733476.31000 4060317.00000       0.57936    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733476.77000 4060292.09000       0.64382    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733477.23000 4060267.18000       0.69527    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733477.70000 4060242.27000       0.73329    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733478.16000 4060217.36000       0.76161    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733478.62000 4060192.45000       0.78421    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733479.09000 4060167.54000       0.80397    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733479.55000 4060142.63000       0.82266    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733480.01000 4060117.72000       0.84100    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733480.48000 4060092.81000       0.85921    58.83    58.83     0.00  PERIOD  ALL
    00043824
```

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733480.94000 4060067.90000       0.87731    58.83    58.83     0.00  PERIOD  ALL
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733481.40000 4060042.99000       0.89504    58.83    58.83     0.00  PERIOD  ALL
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733481.87000 4060018.08000       0.91207    58.83    58.83     0.00  PERIOD  ALL
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733482.33000 4059993.17000       0.92824    58.83    58.83     0.00  PERIOD  ALL
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733482.79000 4059968.26000       0.94337    58.83    58.83     0.00  PERIOD  ALL
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733483.25000 4059943.35000       0.95743    58.83    58.83     0.00  PERIOD  ALL
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733483.72000 4059918.44000       0.97040    58.81    58.81     0.00  PERIOD  ALL
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733484.64000 4059868.62000       0.99419    58.80    58.80     0.00  PERIOD  ALL
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733485.57000 4059818.80000       1.01595    58.79    58.79     0.00  PERIOD  ALL
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733488.81000 4059644.43000       1.08594    58.84    58.84     0.00  PERIOD  ALL
  00043824
733489.28000 4059619.52000       1.09496    58.84    58.84     0.00  PERIOD  ALL
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733489.74000 4059594.61000       1.10362    58.81    58.81     0.00  PERIOD  ALL
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733490.67000 4059544.79000       1.12013    58.76    58.76     0.00  PERIOD  ALL
  00043824
733491.13000 4059519.88000       1.12814    58.76    58.76     0.00  PERIOD  ALL
  00043824
733491.59000 4059494.97000       1.13589    58.75    58.75     0.00  PERIOD  ALL
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733492.52000 4059445.15000       1.15074    58.75    58.75     0.00  PERIOD  ALL
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733493.44000 4059395.33000       1.16477    58.76    58.76     0.00  PERIOD  ALL
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733494.37000 4059345.51000       1.17777    58.76    58.76     0.00  PERIOD  ALL
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733494.83000 4059320.60000       1.18395    58.76    58.76     0.00  PERIOD  ALL
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733495.30000 4059295.69000       1.18986    58.76    58.76     0.00  PERIOD  ALL
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733495.76000 4059270.78000       1.19558    58.76    58.76     0.00  PERIOD  ALL
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733496.22000 4059245.87000       1.20109    58.76    58.76     0.00  PERIOD  ALL
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733496.69000 4059220.96000       1.20636    58.76    58.76     0.00  PERIOD  ALL
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733497.15000 4059196.05000       1.21144    58.76    58.76     0.00  PERIOD  ALL
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733497.61000 4059171.14000       1.21633    58.76    58.76     0.00  PERIOD  ALL
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733498.54000 4059121.32000       1.22552    58.77    58.77     0.00  PERIOD  ALL
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733499.00000 4059096.41000       1.22982    58.77    58.77     0.00  PERIOD  ALL
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733499.46000 4059071.50000       1.23393    58.77    58.77     0.00  PERIOD  ALL
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733505.95000 4058722.76000       1.27577    59.04    59.04     0.00  PERIOD  ALL
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733506.41000 4058697.85000       1.27777    59.07    59.07     0.00  PERIOD  ALL
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733506.88000 4058672.94000       1.27956    59.09    59.09     0.00  PERIOD  ALL
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733507.34000 4058648.03000       1.28125    59.11    59.11     0.00  PERIOD  ALL
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733507.80000 4058623.12000       1.28301    59.18    59.18     0.00  PERIOD  ALL
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733508.26000 4058598.21000       1.28434    59.18    59.18     0.00  PERIOD  ALL
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733508.73000 4058573.30000       1.28572    59.23    59.23     0.00  PERIOD  ALL
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733509.19000 4058548.39000       1.28697    59.27    59.27     0.00  PERIOD  ALL
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733509.65000 4058523.48000       1.28800    59.29    59.29     0.00  PERIOD  ALL
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733510.12000 4058498.57000       1.28884    59.30    59.30     0.00  PERIOD  ALL
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733510.58000 4058473.66000       1.28980    59.36    59.36     0.00  PERIOD  ALL
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733512.43000 4058374.02000       1.29198    59.48    59.48     0.00  PERIOD  ALL
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Hydrogen\Heart     04/16/25
* AERMET ( 21112):
       16:30:54
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF 22511 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP
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* AERMOD (24142 ): C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland
Hydrogen\Heart     04/16/25
* AERMET ( 21112):
       16:30:54
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  3-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF 22511 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP
      RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________   ______   ______   ______  ______
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Hydrogen\Heart     04/16/25
* AERMET ( 21112):
       16:30:54
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  8-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF 22511 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP
      RANK     NET ID   DATE(CONC)
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731075.58000 4058845.78000       9.61514    65.64    65.64     0.00    8-HR  ALL
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* AERMOD (24142 ): C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland
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Hydrogen\Heart 04/16/25
* AERMET (21112):
16:30:54
* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL
ADJ_U*
* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 22511 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP
RANK	NET ID	DATE(CONC)					
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733474.46000	4060416.64000	3.34232	58.82	58.82	0.00	24-HR	ALL
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733474.92000	4060391.73000	3.60973	58.82	58.82	0.00	24-HR	ALL
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733475.38000	4060366.82000	3.94051	58.82	58.82	0.00	24-HR	ALL
1ST		7121224					
733475.84000	4060341.91000	3.78156	58.82	58.82	0.00	24-HR	ALL
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733480.94000	4060067.90000	4.32368	58.83	58.83	0.00	24-HR	ALL
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Health Risk Assessment

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4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Heartland Solar Project HRA
Construction Start Date	12/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.648752402721996, -120.39648375951309
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2525
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	3.00	1000sqft	0.07	3,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-1	Use Reclaimed Non-Potable Water

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.04	3.72	54.5	118	0.19	1.52	3.75	5.28	1.40	0.73	1.78	—	19,768	19,768	0.81	0.18	0.14	19,843
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.58	4.24	63.9	146	0.23	1.71	5.43	7.14	1.57	1.20	2.12	—	24,036	24,036	0.98	0.23	< 0.005	24,129
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.08	1.00	17.4	50.8	0.08	0.40	2.07	2.41	0.37	0.29	0.62	—	7,980	7,980	0.33	0.08	0.03	8,011
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.20	0.18	3.17	9.27	0.01	0.07	0.38	0.44	0.07	0.05	0.11	—	1,321	1,321	0.05	0.01	< 0.005	1,326

2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.06	2.04	34.4	110	0.16	0.56	3.72	4.28	0.53	0.73	1.26	—	16,803	16,803	0.69	0.16	0.14	16,869
2028	4.04	3.72	54.5	118	0.19	1.52	3.75	5.28	1.40	0.38	1.78	—	19,768	19,768	0.81	0.18	0.10	19,843
2050	0.10	0.08	1.04	1.81	< 0.005	0.01	1.68	1.69	0.01	0.17	0.18	—	286	286	0.01	0.01	< 0.005	291
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.22	1.22	23.2	59.2	0.10	0.72	3.96	4.69	0.65	1.20	1.85	—	9,862	9,862	0.40	0.09	< 0.005	9,898
2027	2.05	2.03	34.4	110	0.16	0.56	3.72	4.28	0.53	0.73	1.26	—	16,806	16,806	0.69	0.16	< 0.005	16,873
2028	4.58	4.24	63.9	146	0.23	1.71	5.43	7.14	1.57	0.55	2.12	—	24,036	24,036	0.98	0.23	< 0.005	24,129
2050	0.10	0.08	1.08	1.82	< 0.005	0.01	1.68	1.69	0.01	0.17	0.18	—	288	288	0.01	0.01	< 0.005	292
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.07	1.37	3.10	0.01	0.04	0.21	0.25	0.04	0.06	0.09	—	522	522	0.02	< 0.005	< 0.005	524
2027	0.99	0.98	17.4	50.8	0.08	0.35	2.07	2.41	0.33	0.29	0.62	—	7,980	7,980	0.33	0.08	0.03	8,011
2028	1.08	1.00	14.9	34.1	0.05	0.40	1.10	1.50	0.37	0.11	0.48	—	5,608	5,608	0.23	0.05	0.01	5,630
2050	0.06	0.05	0.57	0.98	< 0.005	< 0.005	0.86	0.86	< 0.005	0.09	0.09	—	156	156	0.01	0.01	< 0.005	158
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.25	0.57	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	86.4	86.4	< 0.005	< 0.005	< 0.005	86.7
2027	0.18	0.18	3.17	9.27	0.01	0.06	0.38	0.44	0.06	0.05	0.11	—	1,321	1,321	0.05	0.01	< 0.005	1,326
2028	0.20	0.18	2.72	6.22	0.01	0.07	0.20	0.27	0.07	0.02	0.09	—	929	929	0.04	0.01	< 0.005	932
2050	0.01	0.01	0.10	0.18	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	25.8	25.8	< 0.005	< 0.005	< 0.005	26.1

2.3. Construction Emissions by Year, Mitigated

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

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

2027	2.06	2.04	34.4	110	0.16	0.56	3.72	4.28	0.53	0.73	1.26	—	16,803	16,803	0.69	0.16	0.14	16,869
2028	4.04	3.72	54.5	118	0.19	1.52	3.75	5.28	1.40	0.38	1.78	—	19,768	19,768	0.81	0.18	0.10	19,843
2050	0.10	0.08	1.04	1.81	< 0.005	0.01	1.68	1.69	0.01	0.17	0.18	—	286	286	0.01	0.01	< 0.005	291
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.22	1.22	23.2	59.2	0.10	0.72	3.96	4.69	0.65	1.20	1.85	—	9,862	9,862	0.40	0.09	< 0.005	9,898
2027	2.05	2.03	34.4	110	0.16	0.56	3.72	4.28	0.53	0.73	1.26	—	16,806	16,806	0.69	0.16	< 0.005	16,873
2028	4.58	4.24	63.9	146	0.23	1.71	5.43	7.14	1.57	0.55	2.12	—	24,036	24,036	0.98	0.23	< 0.005	24,129
2050	0.10	0.08	1.08	1.82	< 0.005	0.01	1.68	1.69	0.01	0.17	0.18	—	288	288	0.01	0.01	< 0.005	292
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.07	1.37	3.10	0.01	0.04	0.21	0.25	0.04	0.06	0.09	—	522	522	0.02	< 0.005	< 0.005	524
2027	0.99	0.98	17.4	50.8	0.08	0.35	2.07	2.41	0.33	0.29	0.62	—	7,980	7,980	0.33	0.08	0.03	8,011
2028	1.08	1.00	14.9	34.1	0.05	0.40	1.10	1.50	0.37	0.11	0.48	—	5,608	5,608	0.23	0.05	0.01	5,630
2050	0.06	0.05	0.57	0.98	< 0.005	< 0.005	0.86	0.86	< 0.005	0.09	0.09	—	156	156	0.01	0.01	< 0.005	158
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.25	0.57	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	86.4	86.4	< 0.005	< 0.005	< 0.005	86.7
2027	0.18	0.18	3.17	9.27	0.01	0.06	0.38	0.44	0.06	0.05	0.11	—	1,321	1,321	0.05	0.01	< 0.005	1,326
2028	0.20	0.18	2.72	6.22	0.01	0.07	0.20	0.27	0.07	0.02	0.09	—	929	929	0.04	0.01	< 0.005	932
2050	0.01	0.01	0.10	0.18	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	25.8	25.8	< 0.005	< 0.005	< 0.005	26.1

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.16	0.15	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	81.4	83.4	1.17	0.01	0.81	116
Mit.	0.16	0.15	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	77.2	79.2	1.16	0.01	0.81	112

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	5%	5%	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.20	0.19	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	85.6	87.6	1.17	0.01	0.78	121
Mit.	0.20	0.19	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	81.4	83.4	1.17	0.01	0.78	116
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	5%	5%	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.12	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	74.0	76.0	1.16	0.01	0.79	108
Mit.	0.13	0.12	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	69.8	71.8	1.16	0.01	0.79	104
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	12.3	12.6	0.19	< 0.005	0.13	17.9
Mit.	0.02	0.02	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	11.6	11.9	0.19	< 0.005	0.13	17.2
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	< 0.5%	1%	—	4%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.09	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	0.01	< 0.005	0.03	26.8
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4

Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.16	0.15	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	81.4	83.4	1.17	0.01	0.81	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.13	0.12	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.5	29.5	0.01	0.01	< 0.005	31.4
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.20	0.19	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	85.6	87.6	1.17	0.01	0.78	121
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.06	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.01	19.0
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.13	0.12	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	74.0	76.0	1.16	0.01	0.79	108
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	3.14
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.02	0.02	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	12.3	12.6	0.19	< 0.005	0.13	17.9

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.09	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	0.01	< 0.005	0.03	26.8
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.16	0.15	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	77.2	79.2	1.16	0.01	0.81	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.13	0.12	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.5	29.5	0.01	0.01	< 0.005	31.4
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.20	0.19	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	81.4	83.4	1.17	0.01	0.78	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.06	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.01	19.0
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.13	0.12	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	69.8	71.8	1.16	0.01	0.79	104
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	3.14
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.02	0.02	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	11.6	11.9	0.19	< 0.005	0.13	17.2

3. Construction Emissions Details

3.1. Decommissioning (2050) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.6

Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	< 0.005	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	< 0.005	18.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	< 0.005	7.97
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.25	9.25	< 0.005	< 0.005	< 0.005	9.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.32
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.61

3.2. Decommissioning (2050) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.6

Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	< 0.005	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	< 0.005	18.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	< 0.005	7.97
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.25	9.25	< 0.005	< 0.005	< 0.005	9.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.32
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.61

3.3. Move-On (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046

Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

3.4. Move-On (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046
Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

3.5. Cleanup/Testing/Restoration (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423

Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	11.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Cleanup/Testing/Restoration (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—

Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	11.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Site Preparation and Grading (2026) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Site Preparation and Grading (2026) - Mitigated

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

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

Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Site Preparation and Grading (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.72	3.72	< 0.005	< 0.005	< 0.005	3.90
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Site Preparation and Grading (2027) - Mitigated

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

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

Off-Road	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.72	3.72	< 0.005	< 0.005	< 0.005	3.90
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Substation Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40

3.12. Substation Construction (2027) - Mitigated

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

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

Off-Road Equipm	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40

3.13. Substation Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.97
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

3.14. Substation Construction (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.97
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

3.15. System Installation - Solar Facility (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.94
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.16. System Installation - Solar Facility (2027) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.94
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.17. System Installation - Solar Facility (2028) - Unmitigated

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

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

Off-Road Equipm	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.01	18.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	< 0.005	18.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	< 0.005	5.11
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.48

3.18. System Installation - Solar Facility (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.01	18.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	< 0.005	18.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	< 0.005	5.11
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.48

3.19. Gen-tie Line Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.32
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.38

3.20. Gen-tie Line Installation (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.32
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.38

3.21. Gen-tie Line Installation (2028) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.22. Gen-tie Line Installation (2028) - Mitigated

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

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

Off-Road Equipm	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.23. Battery/Container Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	< 0.005	26.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.43	9.43	< 0.005	< 0.005	< 0.005	9.89
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66

3.24. Battery/Container Installation (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	< 0.005	26.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.43	9.43	< 0.005	< 0.005	< 0.005	9.89
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66

3.25. Battery/Container Installation (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	26.3
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.91
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19

3.26. Battery/Container Installation (2028) - Mitigated

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

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

Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	26.3
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.91

Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19

3.27. PG&E Tranquility Switching Station Upgrades (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915

Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21

3.28. PG&E Tranquility Switching Station Upgrades (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21

3.29. Underground Work (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Underground Work (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

Total	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Decommissioning	Demolition	1/1/2050	10/5/2050	5.00	198	—
Move-On	Site Preparation	12/1/2026	12/14/2026	5.00	10.0	—
Cleanup/Testing/Restoration	Site Preparation	1/27/2028	5/29/2028	5.00	88.0	—
Site Preparation and Grading	Grading	12/15/2026	4/15/2027	5.00	88.0	—
Substation Construction	Building Construction	5/17/2027	5/12/2028	5.00	260	—
System Installation - Solar Facility	Building Construction	9/17/2027	5/19/2028	5.00	176	—
Gen-tie Line Installation	Building Construction	5/25/2027	5/22/2028	5.00	260	—
Battery/Container Installation	Building Construction	6/25/2027	2/26/2028	5.00	176	—

PG&E Tranquility Switching Station Upgrades	Building Construction	1/27/2028	5/29/2028	5.00	88.0	—
Underground Work	Trenching	4/16/2027	9/16/2027	5.00	110	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74
Cleanup/Testing/Restoration	Tractors/Loaders/Backhoes	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40

Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31
Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38

Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40
Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40

Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29
PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40

PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74

Cleanup/Testing/Resto	Tractors/Loaders/Back	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31

Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40

Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40
Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29

PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	0.00	0.25	LDA,LDT1,LDT2
Move-On	Vendor	10.0	0.25	HHDT,MHDT
Move-On	Hauling	2.00	0.25	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	0.25	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	0.25	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	0.00	0.25	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	0.25	HHDT,MHDT
Substation Construction	Hauling	2.00	0.25	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	0.00	0.25	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	0.25	HHDT,MHDT
Decommissioning	Hauling	8.00	0.25	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	0.00	0.25	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	0.25	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	0.25	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	0.00	0.25	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	0.25	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	0.25	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	0.00	0.25	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	0.25	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	0.25	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	0.00	0.25	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	0.25	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	0.25	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	0.00	0.25	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	0.25	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	0.00	0.25	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	0.25	HHDT,MHDT
Underground Work	Hauling	0.00	0.25	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	0.00	0.25	LDA,LDT1,LDT2
Move-On	Vendor	10.0	0.25	HHDT,MHDT
Move-On	Hauling	2.00	0.25	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	0.25	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	0.25	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	0.00	0.25	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	0.25	HHDT,MHDT
Substation Construction	Hauling	2.00	0.25	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	0.00	0.25	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	0.25	HHDT,MHDT
Decommissioning	Hauling	8.00	0.25	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	0.00	0.25	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	0.25	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	0.25	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	0.00	0.25	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	0.25	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	0.25	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	0.00	0.25	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	0.25	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	0.25	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	0.00	0.25	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	0.25	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	0.25	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	0.00	0.25	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	0.25	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	0.00	0.25	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	0.25	HHDT,MHDT
Underground Work	Hauling	0.00	0.25	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

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

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Decommissioning	0.00	0.00	0.00	3,000	—
Move-On	—	—	26.3	0.00	—
Cleanup/Testing/Restoration	—	—	165	0.00	—
Site Preparation and Grading	—	—	2,412	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2050	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	38.0	0.00	0.00	9,907	9.50	0.00	0.00	2,477

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	38.0	0.00	0.00	9,907	9.50	0.00	0.00	2,477

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

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

0	0.00	4,500	1,500	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	71,616	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	71,616	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	29.2	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	62.7
AQ-PM	37.8
AQ-DPM	15.2
Drinking Water	75.2
Lead Risk Housing	78.0
Pesticides	86.7
Toxic Releases	17.8
Traffic	10.3
Effect Indicators	—

CleanUp Sites	58.2
Groundwater	71.8
Haz Waste Facilities/Generators	7.35
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	87.9
Cardio-vascular	57.6
Low Birth Weights	66.6
Socioeconomic Factor Indicators	—
Education	99.8
Housing	77.6
Linguistic	99.9
Poverty	99.3
Unemployment	99.6

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	0.30796869
Employed	2.014628513
Median HI	3.413319646
Education	—
Bachelor's or higher	0.808417811
High school enrollment	100
Preschool enrollment	19.49185166
Transportation	—

Auto Access	12.42140382
Active commuting	40.07442577
Social	—
2-parent households	60.47735147
Voting	1.360195047
Neighborhood	—
Alcohol availability	34.0177082
Park access	30.89952521
Retail density	1.809316053
Supermarket access	61.52957783
Tree canopy	3.27216733
Housing	—
Homeownership	22.10958553
Housing habitability	9.482869242
Low-inc homeowner severe housing cost burden	2.386757346
Low-inc renter severe housing cost burden	44.14217888
Uncrowded housing	20.37726165
Health Outcomes	—
Insured adults	2.463749519
Arthritis	0.0
Asthma ER Admissions	12.0
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	27.7

Cognitively Disabled	85.7
Physically Disabled	78.7
Heart Attack ER Admissions	7.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	90.3
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	14.1
Elderly	89.5
English Speaking	0.2
Foreign-born	96.1
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.7
Traffic Density	9.6
Traffic Access	0.0
Other Indices	—
Hardship	99.4
Other Decision Support	—

2016 Voting	9.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	85.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	16 workers for operations and maintenance monday through friday.
Operations: Landscape Equipment	No landscaping equipment.
Operations: Energy Use	O&M building is all-electric.

Operations: Water and Waste Water	outdoor water use for panel washing. This also amortized the construction and decommissioning water use.
Construction: Dust From Material Movement	Based on the project description.
Operations: Fleet Mix	Based on worker and water delivery mix.

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** LAKES ENVIRONMENTAL SOFTWARE INC.
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SOLAR HRA\HEARTLAND HYDROGEN.ADI
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** AERMOD CONTROL PATHWAY
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   ERRORFIL "HEARTLAND HYDROGEN.ERR"
CO FINISHED
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** AERMOD SOURCE PATHWAY
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** DESCRSRC
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
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LOCATION L0004150 VOLUME 732525.959 4059739.570 61.04
LOCATION L0004151 VOLUME 732517.359 4059739.453 61.05
LOCATION L0004152 VOLUME 732508.760 4059739.337 61.08
LOCATION L0004153 VOLUME 732500.161 4059739.221 61.11
LOCATION L0004154 VOLUME 732491.562 4059739.105 61.15
LOCATION L0004155 VOLUME 732482.962 4059738.988 61.16
LOCATION L0004156 VOLUME 732474.363 4059738.872 61.16
LOCATION L0004157 VOLUME 732465.764 4059738.756 61.16
LOCATION L0004158 VOLUME 732457.165 4059738.640 61.19
LOCATION L0004159 VOLUME 732448.566 4059738.524 61.22
LOCATION L0004160 VOLUME 732439.966 4059738.407 61.26
LOCATION L0004161 VOLUME 732431.367 4059738.291 61.26
LOCATION L0004162 VOLUME 732422.768 4059738.175 61.26
LOCATION L0004163 VOLUME 732414.169 4059738.059 61.26
LOCATION L0004164 VOLUME 732405.570 4059737.943 61.30
LOCATION L0004165 VOLUME 732396.970 4059737.826 61.33
LOCATION L0004166 VOLUME 732388.371 4059737.710 61.36
LOCATION L0004167 VOLUME 732379.772 4059737.594 61.36
LOCATION L0004168 VOLUME 732371.173 4059737.478 61.36
LOCATION L0004169 VOLUME 732362.573 4059737.362 61.37

LOCATION L0004170 VOLUME 732353.974 4059737.245 61.40
LOCATION L0004171 VOLUME 732345.375 4059737.129 61.44
LOCATION L0004172 VOLUME 732336.776 4059737.013 61.46
LOCATION L0004173 VOLUME 732328.177 4059736.897 61.46
LOCATION L0004174 VOLUME 732319.577 4059736.781 61.47
LOCATION L0004175 VOLUME 732310.978 4059736.664 61.49
LOCATION L0004176 VOLUME 732302.379 4059736.548 61.52
LOCATION L0004177 VOLUME 732293.780 4059736.432 61.55
LOCATION L0004178 VOLUME 732285.181 4059736.316 61.58
LOCATION L0004179 VOLUME 732276.581 4059736.200 61.61
LOCATION L0004180 VOLUME 732267.982 4059736.083 61.65
LOCATION L0004181 VOLUME 732259.383 4059735.967 61.66
LOCATION L0004182 VOLUME 732250.784 4059735.851 61.66
LOCATION L0004183 VOLUME 732242.184 4059735.735 61.66
LOCATION L0004184 VOLUME 732233.585 4059735.619 61.69
LOCATION L0004185 VOLUME 732224.986 4059735.502 61.72
LOCATION L0004186 VOLUME 732216.387 4059735.386 61.75
LOCATION L0004187 VOLUME 732207.788 4059735.270 61.79
LOCATION L0004188 VOLUME 732199.188 4059735.154 61.82
LOCATION L0004189 VOLUME 732190.589 4059735.037 61.86
LOCATION L0004190 VOLUME 732181.990 4059734.921 61.89
LOCATION L0004191 VOLUME 732173.391 4059734.805 61.92
LOCATION L0004192 VOLUME 732164.792 4059734.689 61.96
LOCATION L0004193 VOLUME 732156.192 4059734.573 61.99
LOCATION L0004194 VOLUME 732147.593 4059734.456 62.03
LOCATION L0004195 VOLUME 732138.994 4059734.340 62.07
LOCATION L0004196 VOLUME 732130.395 4059734.224 62.10
LOCATION L0004197 VOLUME 732121.795 4059734.108 62.13
LOCATION L0004198 VOLUME 732113.196 4059733.992 62.16
LOCATION L0004199 VOLUME 732104.597 4059733.875 62.20
LOCATION L0004200 VOLUME 732095.998 4059733.759 62.24
LOCATION L0004201 VOLUME 732087.399 4059733.643 62.28
LOCATION L0004202 VOLUME 732078.799 4059733.527 62.31
LOCATION L0004203 VOLUME 732070.200 4059733.411 62.35
LOCATION L0004204 VOLUME 732061.601 4059733.294 62.38
LOCATION L0004205 VOLUME 732053.002 4059733.178 62.41
LOCATION L0004206 VOLUME 732044.403 4059733.062 62.45
LOCATION L0004207 VOLUME 732035.803 4059732.946 62.48
LOCATION L0004208 VOLUME 732027.204 4059732.830 62.52
LOCATION L0004209 VOLUME 732018.605 4059732.713 62.55
LOCATION L0004210 VOLUME 732010.006 4059732.597 62.59
LOCATION L0004211 VOLUME 732001.406 4059732.481 62.62
LOCATION L0004212 VOLUME 732001.058 4059724.225 62.62
LOCATION L0004213 VOLUME 732001.058 4059715.625 62.63
LOCATION L0004214 VOLUME 732001.058 4059707.025 62.63
LOCATION L0004215 VOLUME 732001.058 4059698.425 62.63
LOCATION L0004216 VOLUME 732001.058 4059689.825 62.63
LOCATION L0004217 VOLUME 732001.058 4059681.225 62.63
LOCATION L0004218 VOLUME 732001.058 4059672.625 62.63
LOCATION L0004219 VOLUME 732001.058 4059664.025 62.63

LOCATION L0004220 VOLUME 732001.058 4059655.425 62.63
LOCATION L0004221 VOLUME 732001.058 4059646.825 62.63
LOCATION L0004222 VOLUME 732001.058 4059638.225 62.63
LOCATION L0004223 VOLUME 732008.592 4059637.030 62.60
LOCATION L0004224 VOLUME 732017.190 4059636.882 62.57
LOCATION L0004225 VOLUME 732025.789 4059636.734 62.53
LOCATION L0004226 VOLUME 732034.388 4059636.585 62.50
LOCATION L0004227 VOLUME 732042.987 4059636.437 62.47
LOCATION L0004228 VOLUME 732051.585 4059636.289 62.42
LOCATION L0004229 VOLUME 732060.184 4059636.141 62.37
LOCATION L0004230 VOLUME 732068.783 4059635.992 62.32
LOCATION L0004231 VOLUME 732077.381 4059635.844 62.30
LOCATION L0004232 VOLUME 732085.980 4059635.696 62.28
LOCATION L0004233 VOLUME 732094.579 4059635.548 62.26
LOCATION L0004234 VOLUME 732103.178 4059635.399 62.21
LOCATION L0004235 VOLUME 732111.776 4059635.251 62.16
LOCATION L0004236 VOLUME 732120.375 4059635.103 62.11
LOCATION L0004237 VOLUME 732128.974 4059634.955 62.06
LOCATION L0004238 VOLUME 732137.572 4059634.806 62.00
LOCATION L0004239 VOLUME 732146.171 4059634.658 61.96
LOCATION L0004240 VOLUME 732154.770 4059634.510 61.95
LOCATION L0004241 VOLUME 732163.369 4059634.362 61.93
LOCATION L0004242 VOLUME 732171.967 4059634.213 61.90
LOCATION L0004243 VOLUME 732180.566 4059634.065 61.85
LOCATION L0004244 VOLUME 732189.165 4059633.917 61.80
LOCATION L0004245 VOLUME 732197.764 4059633.769 61.76
LOCATION L0004246 VOLUME 732206.362 4059633.620 61.75
LOCATION L0004247 VOLUME 732214.961 4059633.472 61.73
LOCATION L0004248 VOLUME 732223.560 4059633.324 61.71
LOCATION L0004249 VOLUME 732232.158 4059633.176 61.69
LOCATION L0004250 VOLUME 732240.757 4059633.027 61.67
LOCATION L0004251 VOLUME 732249.356 4059632.879 61.65
LOCATION L0004252 VOLUME 732257.955 4059632.731 61.64
LOCATION L0004253 VOLUME 732266.553 4059632.583 61.63
LOCATION L0004254 VOLUME 732275.152 4059632.434 61.61
LOCATION L0004255 VOLUME 732283.751 4059632.286 61.59
LOCATION L0004256 VOLUME 732292.349 4059632.138 61.56
LOCATION L0004257 VOLUME 732300.948 4059631.990 61.53
LOCATION L0004258 VOLUME 732309.547 4059631.841 61.49
LOCATION L0004259 VOLUME 732318.146 4059631.693 61.46
LOCATION L0004260 VOLUME 732326.744 4059631.545 61.46
LOCATION L0004261 VOLUME 732335.343 4059631.397 61.46
LOCATION L0004262 VOLUME 732343.942 4059631.248 61.46
LOCATION L0004263 VOLUME 732352.541 4059631.100 61.42
LOCATION L0004264 VOLUME 732361.139 4059630.952 61.39
LOCATION L0004265 VOLUME 732369.738 4059630.804 61.36
LOCATION L0004266 VOLUME 732378.337 4059630.655 61.36
LOCATION L0004267 VOLUME 732386.935 4059630.507 61.36
LOCATION L0004268 VOLUME 732395.534 4059630.359 61.35
LOCATION L0004269 VOLUME 732404.133 4059630.211 61.31

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   LOCATION L0004270     VOLUME   732412.732 4059630.062 61.28
   LOCATION L0004271     VOLUME   732421.330 4059629.914 61.26
   LOCATION L0004272     VOLUME   732429.929 4059629.766 61.26
   LOCATION L0004273     VOLUME   732438.528 4059629.618 61.26
   LOCATION L0004274     VOLUME   732447.126 4059629.469 61.24
   LOCATION L0004275     VOLUME   732455.725 4059629.321 61.21
   LOCATION L0004276     VOLUME   732464.324 4059629.173 61.17
   LOCATION L0004277     VOLUME   732472.923 4059629.024 61.16
   LOCATION L0004278     VOLUME   732481.521 4059628.876 61.16
   LOCATION L0004279     VOLUME   732490.120 4059628.728 61.16
   LOCATION L0004280     VOLUME   732498.719 4059628.580 61.13
** END OF LINE VOLUME SOURCE ID = SLINE1
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE2
** DESCRSRC
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.0239146992
** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
** NODES = 2
** 732650.941, 4059359.877, 60.84, 3.40, 4.00
** 732702.931, 4058008.120, 61.78, 3.40, 4.00
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   LOCATION L0004282     VOLUME   732651.436 4059346.986 60.85
   LOCATION L0004283     VOLUME   732651.767 4059338.393 60.85
   LOCATION L0004284     VOLUME   732652.097 4059329.799 60.87
   LOCATION L0004285     VOLUME   732652.428 4059321.205 60.89
   LOCATION L0004286     VOLUME   732652.758 4059312.612 60.90
   LOCATION L0004287     VOLUME   732653.089 4059304.018 60.92
   LOCATION L0004288     VOLUME   732653.419 4059295.424 60.93
   LOCATION L0004289     VOLUME   732653.750 4059286.831 60.94
   LOCATION L0004290     VOLUME   732654.081 4059278.237 60.95
   LOCATION L0004291     VOLUME   732654.411 4059269.643 60.95
   LOCATION L0004292     VOLUME   732654.742 4059261.050 60.95
   LOCATION L0004293     VOLUME   732655.072 4059252.456 60.95
   LOCATION L0004294     VOLUME   732655.403 4059243.863 60.95
   LOCATION L0004295     VOLUME   732655.733 4059235.269 60.96
   LOCATION L0004296     VOLUME   732656.064 4059226.675 60.97
   LOCATION L0004297     VOLUME   732656.394 4059218.082 60.97
   LOCATION L0004298     VOLUME   732656.725 4059209.488 60.99
   LOCATION L0004299     VOLUME   732657.055 4059200.894 61.01
   LOCATION L0004300     VOLUME   732657.386 4059192.301 61.03
   LOCATION L0004301     VOLUME   732657.716 4059183.707 61.04
   LOCATION L0004302     VOLUME   732658.047 4059175.113 61.05
   LOCATION L0004303     VOLUME   732658.377 4059166.520 61.05
   LOCATION L0004304     VOLUME   732658.708 4059157.926 61.05
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LOCATION L0004305     VOLUME   732659.038 4059149.332 61.05
LOCATION L0004306     VOLUME   732659.369 4059140.739 61.05
LOCATION L0004307     VOLUME   732659.699 4059132.145 61.05
LOCATION L0004308     VOLUME   732660.030 4059123.551 61.06
LOCATION L0004309     VOLUME   732660.361 4059114.958 61.08
LOCATION L0004310     VOLUME   732660.691 4059106.364 61.11
LOCATION L0004311     VOLUME   732661.022 4059097.771 61.13
LOCATION L0004312     VOLUME   732661.352 4059089.177 61.14
LOCATION L0004313     VOLUME   732661.683 4059080.583 61.14
LOCATION L0004314     VOLUME   732662.013 4059071.990 61.14
LOCATION L0004315     VOLUME   732662.344 4059063.396 61.14
LOCATION L0004316     VOLUME   732662.674 4059054.802 61.15
LOCATION L0004317     VOLUME   732663.005 4059046.209 61.15
LOCATION L0004318     VOLUME   732663.335 4059037.615 61.16
LOCATION L0004319     VOLUME   732663.666 4059029.021 61.17
LOCATION L0004320     VOLUME   732663.996 4059020.428 61.18
LOCATION L0004321     VOLUME   732664.327 4059011.834 61.20
LOCATION L0004322     VOLUME   732664.657 4059003.240 61.21
LOCATION L0004323     VOLUME   732664.988 4058994.647 61.22
LOCATION L0004324     VOLUME   732665.318 4058986.053 61.23
LOCATION L0004325     VOLUME   732665.649 4058977.459 61.23
LOCATION L0004326     VOLUME   732665.979 4058968.866 61.24
LOCATION L0004327     VOLUME   732666.310 4058960.272 61.24
LOCATION L0004328     VOLUME   732666.640 4058951.679 61.25
LOCATION L0004329     VOLUME   732666.971 4058943.085 61.26
LOCATION L0004330     VOLUME   732667.302 4058934.491 61.26
LOCATION L0004331     VOLUME   732667.632 4058925.898 61.27
LOCATION L0004332     VOLUME   732667.963 4058917.304 61.28
LOCATION L0004333     VOLUME   732668.293 4058908.710 61.29
LOCATION L0004334     VOLUME   732668.624 4058900.117 61.30
LOCATION L0004335     VOLUME   732668.954 4058891.523 61.31
LOCATION L0004336     VOLUME   732669.285 4058882.929 61.32
LOCATION L0004337     VOLUME   732669.615 4058874.336 61.33
LOCATION L0004338     VOLUME   732669.946 4058865.742 61.34
LOCATION L0004339     VOLUME   732670.276 4058857.148 61.35
LOCATION L0004340     VOLUME   732670.607 4058848.555 61.35
LOCATION L0004341     VOLUME   732670.937 4058839.961 61.36
LOCATION L0004342     VOLUME   732671.268 4058831.368 61.36
LOCATION L0004343     VOLUME   732671.598 4058822.774 61.36
LOCATION L0004344     VOLUME   732671.929 4058814.180 61.36
LOCATION L0004345     VOLUME   732672.259 4058805.587 61.36
LOCATION L0004346     VOLUME   732672.590 4058796.993 61.36
LOCATION L0004347     VOLUME   732672.920 4058788.399 61.36
LOCATION L0004348     VOLUME   732673.251 4058779.806 61.37
LOCATION L0004349     VOLUME   732673.582 4058771.212 61.39
LOCATION L0004350     VOLUME   732673.912 4058762.618 61.41
LOCATION L0004351     VOLUME   732674.243 4058754.025 61.42
LOCATION L0004352     VOLUME   732674.573 4058745.431 61.42
LOCATION L0004353     VOLUME   732674.904 4058736.837 61.42
LOCATION L0004354     VOLUME   732675.234 4058728.244 61.42
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LOCATION L0004355 VOLUME 732675.565 4058719.650 61.42
LOCATION L0004356 VOLUME 732675.895 4058711.056 61.43
LOCATION L0004357 VOLUME 732676.226 4058702.463 61.43
LOCATION L0004358 VOLUME 732676.556 4058693.869 61.43
LOCATION L0004359 VOLUME 732676.887 4058685.276 61.44
LOCATION L0004360 VOLUME 732677.217 4058676.682 61.45
LOCATION L0004361 VOLUME 732677.548 4058668.088 61.45
LOCATION L0004362 VOLUME 732677.878 4058659.495 61.46
LOCATION L0004363 VOLUME 732678.209 4058650.901 61.48
LOCATION L0004364 VOLUME 732678.539 4058642.307 61.49
LOCATION L0004365 VOLUME 732678.870 4058633.714 61.50
LOCATION L0004366 VOLUME 732679.200 4058625.120 61.50
LOCATION L0004367 VOLUME 732679.531 4058616.526 61.50
LOCATION L0004368 VOLUME 732679.861 4058607.933 61.50
LOCATION L0004369 VOLUME 732680.192 4058599.339 61.50
LOCATION L0004370 VOLUME 732680.523 4058590.745 61.50
LOCATION L0004371 VOLUME 732680.853 4058582.152 61.51
LOCATION L0004372 VOLUME 732681.184 4058573.558 61.51
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LOCATION L0004374 VOLUME 732681.845 4058556.371 61.51
LOCATION L0004375 VOLUME 732682.175 4058547.777 61.51
LOCATION L0004376 VOLUME 732682.506 4058539.184 61.51
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LOCATION L0004379 VOLUME 732683.497 4058513.403 61.53
LOCATION L0004380 VOLUME 732683.828 4058504.809 61.53
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LOCATION L0004384 VOLUME 732685.150 4058470.434 61.55
LOCATION L0004385 VOLUME 732685.480 4058461.841 61.56
LOCATION L0004386 VOLUME 732685.811 4058453.247 61.56
LOCATION L0004387 VOLUME 732686.141 4058444.653 61.57
LOCATION L0004388 VOLUME 732686.472 4058436.060 61.58
LOCATION L0004389 VOLUME 732686.803 4058427.466 61.59
LOCATION L0004390 VOLUME 732687.133 4058418.872 61.60
LOCATION L0004391 VOLUME 732687.464 4058410.279 61.60
LOCATION L0004392 VOLUME 732687.794 4058401.685 61.60
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LOCATION L0004394 VOLUME 732688.455 4058384.498 61.60
LOCATION L0004395 VOLUME 732688.786 4058375.904 61.60
LOCATION L0004396 VOLUME 732689.116 4058367.311 61.60
LOCATION L0004397 VOLUME 732689.447 4058358.717 61.60
LOCATION L0004398 VOLUME 732689.777 4058350.123 61.60
LOCATION L0004399 VOLUME 732690.108 4058341.530 61.60
LOCATION L0004400 VOLUME 732690.438 4058332.936 61.60
LOCATION L0004401 VOLUME 732690.769 4058324.342 61.60
LOCATION L0004402 VOLUME 732691.099 4058315.749 61.61
LOCATION L0004403 VOLUME 732691.430 4058307.155 61.61
LOCATION L0004404 VOLUME 732691.760 4058298.561 61.61

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   LOCATION L0004405     VOLUME   732692.091 4058289.968 61.61
   LOCATION L0004406     VOLUME   732692.421 4058281.374 61.61
   LOCATION L0004407     VOLUME   732692.752 4058272.781 61.61
   LOCATION L0004408     VOLUME   732693.082 4058264.187 61.61
   LOCATION L0004409     VOLUME   732693.413 4058255.593 61.62
   LOCATION L0004410     VOLUME   732693.744 4058247.000 61.64
   LOCATION L0004411     VOLUME   732694.074 4058238.406 61.65
   LOCATION L0004412     VOLUME   732694.405 4058229.812 61.66
   LOCATION L0004413     VOLUME   732694.735 4058221.219 61.67
   LOCATION L0004414     VOLUME   732695.066 4058212.625 61.67
   LOCATION L0004415     VOLUME   732695.396 4058204.031 61.68
   LOCATION L0004416     VOLUME   732695.727 4058195.438 61.68
   LOCATION L0004417     VOLUME   732696.057 4058186.844 61.69
   LOCATION L0004418     VOLUME   732696.388 4058178.250 61.69
   LOCATION L0004419     VOLUME   732696.718 4058169.657 61.70
   LOCATION L0004420     VOLUME   732697.049 4058161.063 61.69
   LOCATION L0004421     VOLUME   732697.379 4058152.469 61.69
   LOCATION L0004422     VOLUME   732697.710 4058143.876 61.69
   LOCATION L0004423     VOLUME   732698.040 4058135.282 61.69
   LOCATION L0004424     VOLUME   732698.371 4058126.689 61.69
   LOCATION L0004425     VOLUME   732698.701 4058118.095 61.69
   LOCATION L0004426     VOLUME   732699.032 4058109.501 61.69
   LOCATION L0004427     VOLUME   732699.362 4058100.908 61.70
   LOCATION L0004428     VOLUME   732699.693 4058092.314 61.72
   LOCATION L0004429     VOLUME   732700.023 4058083.720 61.73
   LOCATION L0004430     VOLUME   732700.354 4058075.127 61.74
   LOCATION L0004431     VOLUME   732700.685 4058066.533 61.75
   LOCATION L0004432     VOLUME   732701.015 4058057.939 61.75
   LOCATION L0004433     VOLUME   732701.346 4058049.346 61.76
   LOCATION L0004434     VOLUME   732701.676 4058040.752 61.77
   LOCATION L0004435     VOLUME   732702.007 4058032.158 61.77
   LOCATION L0004436     VOLUME   732702.337 4058023.565 61.78
   LOCATION L0004437     VOLUME   732702.668 4058014.971 61.78
** END OF LINE VOLUME SOURCE ID = SLINE2
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE3
** DESCRSRC
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.2400609292
** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
** NODES = 22
** 732858.903, 4056708.355, 61.79, 3.40, 4.00
** 732876.233, 4056309.760, 61.62, 3.40, 4.00
** 732079.044, 4056266.434, 63.42, 3.40, 4.00
** 732105.039, 4055287.278, 62.66, 3.40, 4.00
** 733439.465, 4055313.273, 60.42, 3.40, 4.00
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** 733387.474, 4056725.685, 60.48, 3.40, 4.00
** 733014.875, 4056708.355, 61.38, 3.40, 4.00
** 733040.870, 4056171.118, 61.30, 3.40, 4.00
** 732252.346, 4056127.793, 62.97, 3.40, 4.00
** 732261.011, 4055469.245, 62.53, 3.40, 4.00
** 733222.837, 4055486.575, 60.84, 3.40, 4.00
** 733309.489, 4055495.240, 60.64, 3.40, 4.00
** 733257.498, 4056595.708, 60.77, 3.40, 4.00
** 733101.526, 4056587.043, 61.17, 3.40, 4.00
** 733118.856, 4056032.477, 61.13, 3.40, 4.00
** 732390.987, 4056015.146, 62.61, 3.40, 4.00
** 732382.322, 4055590.556, 62.33, 3.40, 4.00
** 733153.517, 4055616.551, 60.94, 3.40, 4.00
** 733136.186, 4055902.500, 61.04, 3.40, 4.00
** 732555.624, 4055876.505, 62.22, 3.40, 4.00
** 732572.955, 4055703.203, 62.04, 3.40, 4.00
** 733014.875, 4055720.533, 61.24, 3.40, 4.00
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** END OF LINE VOLUME SOURCE ID = SLINE3
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE4
** DESCRSRC
** PREFIX
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** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
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** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
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** END OF LINE VOLUME SOURCE ID = SLINE4
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC GEN TIE
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.0
** VERTICAL DIMENSION = 6.80
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** NODES = 4
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   LOCATION L0006908     VOLUME   732292.533 4052848.355 65.60
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   LOCATION L0006911     VOLUME   732300.097 4052830.212 65.63
   LOCATION L0006912     VOLUME   732300.097 4052821.612 65.66
   LOCATION L0006913     VOLUME   732300.097 4052813.012 65.69
   LOCATION L0006914     VOLUME   732300.097 4052804.412 65.72
** END OF LINE VOLUME SOURCE ID = SLINE5
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE6
** DESCRSRC PG&E UPGRADES
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.0
** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
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LOCATION L0006982 VOLUME 732295.162 4052696.270 66.10
LOCATION L0006983 VOLUME 732303.754 4052696.633 66.09
LOCATION L0006984 VOLUME 732312.347 4052696.996 66.08
LOCATION L0006985 VOLUME 732320.939 4052697.359 66.07
LOCATION L0006986 VOLUME 732329.531 4052697.722 66.06
LOCATION L0006987 VOLUME 732338.124 4052698.085 66.03
LOCATION L0006988 VOLUME 732346.716 4052698.448 66.00
LOCATION L0006989 VOLUME 732355.308 4052698.811 65.98
LOCATION L0006990 VOLUME 732362.988 4052699.968 65.96
LOCATION L0006991 VOLUME 732362.159 4052708.528 65.94
LOCATION L0006992 VOLUME 732361.329 4052717.088 65.91
LOCATION L0006993 VOLUME 732360.499 4052725.648 65.88
LOCATION L0006994 VOLUME 732359.670 4052734.208 65.85
LOCATION L0006995 VOLUME 732358.840 4052742.767 65.82
LOCATION L0006996 VOLUME 732358.011 4052751.327 65.79
LOCATION L0006997 VOLUME 732357.181 4052759.887 65.76
LOCATION L0006998 VOLUME 732356.351 4052768.447 65.73

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   LOCATION L0007001     VOLUME   732353.863 4052794.127 65.64
   LOCATION L0007002     VOLUME   732353.033 4052802.687 65.62
   LOCATION L0007003     VOLUME   732349.512 4052808.105 65.61
   LOCATION L0007004     VOLUME   732340.927 4052807.609 65.65
   LOCATION L0007005     VOLUME   732332.341 4052807.114 65.68
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   LOCATION L0007020     VOLUME   732312.947 4052711.274 66.02
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   LOCATION L0007034     VOLUME   732335.610 4052795.237 65.71
   LOCATION L0007035     VOLUME   732327.012 4052795.032 65.74
   LOCATION L0007036     VOLUME   732318.415 4052794.827 65.74
   LOCATION L0007037     VOLUME   732318.511 4052786.779 65.76
   LOCATION L0007038     VOLUME   732319.189 4052778.206 65.79
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   LOCATION L0007042     VOLUME   732321.903 4052743.913 65.90
   LOCATION L0007043     VOLUME   732322.582 4052735.340 65.93
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** SOURCE PARAMETERS **
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SRCPARAM L0004206     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004207     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004208     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004209     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004210     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004211     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004212     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004213     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004214     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004215     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004216     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004217     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004218     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004219     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004220     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004221     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004222     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004223     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004224     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004225     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004226     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004227     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004228     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004229     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004230     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004231     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004232     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004233     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004234     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004235     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004236     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004237     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004238     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004239     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004240     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004241     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004242     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004243     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004244     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004245     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004246     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004247     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004248     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004249     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004250     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004251     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004252     0.0001523229      3.40      4.00      3.16
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   SRCPARAM L0004253     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004254     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004255     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004256     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004257     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004258     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004259     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004260     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004261     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004262     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004263     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004264     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004265     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004266     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004267     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004268     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004269     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004270     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004271     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004272     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004273     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004274     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004275     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004276     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004277     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004278     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004279     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004280     0.0001523229      3.40      4.00      3.16
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** LINE VOLUME SOURCE ID = SLINE2
   SRCPARAM L0004281     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004282     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004283     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004284     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004285     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004286     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004287     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004288     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004289     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004290     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004291     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004292     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004293     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004294     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004295     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004296     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004297     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004298     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004299     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004300     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004301     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004302     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004303     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004304     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004305     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004306     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004307     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004308     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004309     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004310     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004311     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004312     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004313     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004314     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004315     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004316     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004317     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004318     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004319     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004320     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004321     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004322     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004323     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004324     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004325     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004326     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004327     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004328     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004329     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004330     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004331     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004332     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004333     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004334     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004335     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004336     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004337     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004338     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004339     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004340     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004341     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004342     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004343     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004344     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004345     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004346     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004347     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004348     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004349     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004350     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004351     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004352     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004353     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004354     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004355     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004356     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004357     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004358     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004359     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004360     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004361     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004362     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004363     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004364     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004365     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004366     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004367     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004368     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004369     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004370     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004371     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004373     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004374     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004375     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004376     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004377     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004380     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004383     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004384     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004386     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004387     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004388     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004389     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004390     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004391     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004392     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004393     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004394     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004395     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004396     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004397     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004398     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004399     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004400     0.0001523229      3.40      4.00      3.16
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   SRCPARAM L0004401     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004402     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004403     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004404     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004405     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004406     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004407     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004408     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004409     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004410     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004411     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004412     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004413     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004414     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004415     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004416     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004417     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004418     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004419     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004420     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004421     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004422     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004423     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004424     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004425     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004426     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004427     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004428     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004429     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004430     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004431     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004432     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004433     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004434     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004435     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004436     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004437     0.0001523229      3.40      4.00      3.16
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** LINE VOLUME SOURCE ID = SLINE3
   SRCPARAM L0004438     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004439     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004440     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004441     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004442     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004443     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004444     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004445     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004446     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004447     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0004448     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004449     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004450     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004451     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004452     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004453     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004454     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004455     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004456     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004457     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004458     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004459     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004460     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004461     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004462     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004463     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004464     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004465     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004466     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004467     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004468     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004469     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004470     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004471     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004472     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004473     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004474     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004475     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004476     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004477     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004478     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004479     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004480     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004481     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004482     0.0001523229      3.40      4.00      3.16
SRCPARAM L0004483     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0007030     0.007751938      3.40      4.00      3.16
SRCPARAM L0007031     0.007751938      3.40      4.00      3.16
SRCPARAM L0007032     0.007751938      3.40      4.00      3.16
SRCPARAM L0007033     0.007751938      3.40      4.00      3.16
SRCPARAM L0007034     0.007751938      3.40      4.00      3.16
SRCPARAM L0007035     0.007751938      3.40      4.00      3.16
SRCPARAM L0007036     0.007751938      3.40      4.00      3.16
SRCPARAM L0007037     0.007751938      3.40      4.00      3.16
SRCPARAM L0007038     0.007751938      3.40      4.00      3.16
SRCPARAM L0007039     0.007751938      3.40      4.00      3.16
SRCPARAM L0007040     0.007751938      3.40      4.00      3.16
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SRCPARAM L0007042     0.007751938      3.40      4.00      3.16
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   SRCGROUP PGE      L0007035 L0007036 L0007037 L0007038 L0007039 L0007040
   SRCGROUP PGE      L0007041 L0007042 L0007043
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD RECEPTOR PATHWAY
****************************************
**
**
RE STARTING
   INCLUDED "HEARTLAND HYDROGEN.ROU"
RE FINISHED
**
****************************************
** AERMOD METEOROLOGY PATHWAY
****************************************
**
**
ME STARTING
   SURFFILE ..\MENDOTA-MM5\MENDOTA_07-11.SFC
   PROFFILE ..\MENDOTA-MM5\MENDOTA_07-11.PFL
   SURFDATA 99005 2007
   UAIRDATA 66666 2007
```

```
   PROFBASE 15.0 METERS
ME FINISHED
**
**************************************
** AERMOD OUTPUT PATHWAY
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** AUTO-GENERATED PLOTFILES
   PLOTFILE   1 ALL 1ST "HEARTLAND HYDROGEN.AD\01H1GALL.PLT" 31
   PLOTFILE   1 CON 1ST "HEARTLAND HYDROGEN.AD\01H1G001.PLT" 32
   PLOTFILE   1 GENTIE 1ST "HEARTLAND HYDROGEN.AD\01H1G002.PLT" 33
   PLOTFILE   1 PGE 1ST "HEARTLAND HYDROGEN.AD\01H1G003.PLT" 34
   PLOTFILE   PERIOD ALL "HEARTLAND HYDROGEN.AD\PE00GALL.PLT" 35
   PLOTFILE   PERIOD CON "HEARTLAND HYDROGEN.AD\PE00G001.PLT" 36
   PLOTFILE   PERIOD GENTIE "HEARTLAND HYDROGEN.AD\PE00G002.PLT" 37
   PLOTFILE   PERIOD PGE "HEARTLAND HYDROGEN.AD\PE00G003.PLT" 38
   SUMMFILE "HEARTLAND HYDROGEN.SUM"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W187   15500       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 15.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 6.5 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: HEARTLAND HYDROGEN.ERR

**File for Summary of Results: HEARTLAND HYDROGEN.SUM

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0000001	0	0.15232E-03	731152.0	4060326.1	66.1	3.40	4.00				

```
3.16     NO                    NO
 L0000002         0   0.15232E-03  731152.3 4060317.5    66.1     3.40     4.00
3.16     NO                    NO
 L0000003         0   0.15232E-03  731152.5 4060308.9    66.1     3.40     4.00
3.16     NO                    NO
 L0000004         0   0.15232E-03  731152.8 4060300.3    66.2     3.40     4.00
3.16     NO                    NO
 L0000005         0   0.15232E-03  731153.1 4060291.7    66.2     3.40     4.00
3.16     NO                    NO
 L0000006         0   0.15232E-03  731153.3 4060283.1    66.2     3.40     4.00
3.16     NO                    NO
 L0000007         0   0.15232E-03  731153.6 4060274.5    66.2     3.40     4.00
3.16     NO                    NO
 L0000008         0   0.15232E-03  731153.8 4060265.9    66.3     3.40     4.00
3.16     NO                    NO
 L0000009         0   0.15232E-03  731154.1 4060257.3    66.3     3.40     4.00
3.16     NO                    NO
 L0000010         0   0.15232E-03  731154.4 4060248.7    66.3     3.40     4.00
3.16     NO                    NO
 L0000011         0   0.15232E-03  731154.6 4060240.1    66.3     3.40     4.00
3.16     NO                    NO
 L0000012         0   0.15232E-03  731154.9 4060231.5    66.3     3.40     4.00
3.16     NO                    NO
 L0000013         0   0.15232E-03  731155.1 4060222.9    66.4     3.40     4.00
3.16     NO                    NO
 L0000014         0   0.15232E-03  731155.4 4060214.3    66.4     3.40     4.00
3.16     NO                    NO
 L0000015         0   0.15232E-03  731155.7 4060205.7    66.4     3.40     4.00
3.16     NO                    NO
 L0000016         0   0.15232E-03  731155.9 4060197.1    66.4     3.40     4.00
3.16     NO                    NO
 L0000017         0   0.15232E-03  731156.2 4060188.5    66.4     3.40     4.00
3.16     NO                    NO
 L0000018         0   0.15232E-03  731156.4 4060179.9    66.4     3.40     4.00
3.16     NO                    NO
 L0000019         0   0.15232E-03  731156.7 4060171.3    66.4     3.40     4.00
3.16     NO                    NO
 L0000020         0   0.15232E-03  731157.0 4060162.7    66.4     3.40     4.00
3.16     NO                    NO
 L0000021         0   0.15232E-03  731157.2 4060154.1    66.4     3.40     4.00
3.16     NO                    NO
 L0000022         0   0.15232E-03  731157.5 4060145.6    66.4     3.40     4.00
3.16     NO                    NO
 L0000023         0   0.15232E-03  731157.7 4060137.0    66.4     3.40     4.00
3.16     NO                    NO
 L0000024         0   0.15232E-03  731158.0 4060128.4    66.4     3.40     4.00
3.16     NO                    NO
 L0000025         0   0.15232E-03  731158.3 4060119.8    66.4     3.40     4.00
3.16     NO                    NO
 L0000026         0   0.15232E-03  731158.5 4060111.2    66.4     3.40     4.00
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3.16     NO                     NO
 L0000027         0   0.15232E-03  731158.8 4060102.6    66.4     3.40     4.00
3.16     NO                     NO
 L0000028         0   0.15232E-03  731159.0 4060094.0    66.3     3.40     4.00
3.16     NO                     NO
 L0000029         0   0.15232E-03  731159.3 4060085.4    66.3     3.40     4.00
3.16     NO                     NO
 L0000030         0   0.15232E-03  731159.6 4060076.8    66.3     3.40     4.00
3.16     NO                     NO
 L0000031         0   0.15232E-03  731159.8 4060068.2    66.2     3.40     4.00
3.16     NO                     NO
 L0000032         0   0.15232E-03  731160.1 4060059.6    66.2     3.40     4.00
3.16     NO                     NO
 L0000033         0   0.15232E-03  731160.3 4060051.0    66.2     3.40     4.00
3.16     NO                     NO
 L0000034         0   0.15232E-03  731160.6 4060042.4    66.1     3.40     4.00
3.16     NO                     NO
 L0000035         0   0.15232E-03  731160.9 4060033.8    66.1     3.40     4.00
3.16     NO                     NO
 L0000036         0   0.15232E-03  731161.1 4060025.2    66.0     3.40     4.00
3.16     NO                     NO
 L0000037         0   0.15232E-03  731161.4 4060016.6    66.0     3.40     4.00
3.16     NO                     NO
 L0000038         0   0.15232E-03  731161.6 4060008.0    66.0     3.40     4.00
3.16     NO                     NO
 L0000039         0   0.15232E-03  731161.9 4059999.4    65.9     3.40     4.00
3.16     NO                     NO
 L0000040         0   0.15232E-03  731162.2 4059990.8    65.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.15232E-03  731162.4 4059982.2    65.9     3.40     4.00
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3.16     NO                    NO
 L0000042         0   0.15232E-03  731162.7 4059973.6    65.8     3.40     4.00
3.16     NO                    NO
 L0000043         0   0.15232E-03  731162.9 4059965.0    65.8     3.40     4.00
3.16     NO                    NO
 L0000044         0   0.15232E-03  731163.2 4059956.4    65.8     3.40     4.00
3.16     NO                    NO
 L0000045         0   0.15232E-03  731163.5 4059947.8    65.8     3.40     4.00
3.16     NO                    NO
 L0000046         0   0.15232E-03  731163.7 4059939.2    65.7     3.40     4.00
3.16     NO                    NO
 L0000047         0   0.15232E-03  731164.0 4059930.7    65.7     3.40     4.00
3.16     NO                    NO
 L0000048         0   0.15232E-03  731164.3 4059922.1    65.7     3.40     4.00
3.16     NO                    NO
 L0000049         0   0.15232E-03  731164.5 4059913.5    65.7     3.40     4.00
3.16     NO                    NO
 L0000050         0   0.15232E-03  731164.8 4059904.9    65.6     3.40     4.00
3.16     NO                    NO
 L0000051         0   0.15232E-03  731165.0 4059896.3    65.6     3.40     4.00
3.16     NO                    NO
 L0000052         0   0.15232E-03  731165.3 4059887.7    65.6     3.40     4.00
3.16     NO                    NO
 L0000053         0   0.15232E-03  731165.6 4059879.1    65.5     3.40     4.00
3.16     NO                    NO
 L0000054         0   0.15232E-03  731165.8 4059870.5    65.5     3.40     4.00
3.16     NO                    NO
 L0000055         0   0.15232E-03  731166.1 4059861.9    65.5     3.40     4.00
3.16     NO                    NO
 L0000056         0   0.15232E-03  731166.3 4059853.3    65.5     3.40     4.00
3.16     NO                    NO
 L0000057         0   0.15232E-03  731166.6 4059844.7    65.5     3.40     4.00
3.16     NO                    NO
 L0000058         0   0.15232E-03  731166.9 4059836.1    65.4     3.40     4.00
3.16     NO                    NO
 L0000059         0   0.15232E-03  731167.1 4059827.5    65.4     3.40     4.00
3.16     NO                    NO
 L0000060         0   0.15232E-03  731167.4 4059818.9    65.4     3.40     4.00
3.16     NO                    NO
 L0000061         0   0.15232E-03  731167.6 4059810.3    65.4     3.40     4.00
3.16     NO                    NO
 L0000062         0   0.15232E-03  731167.9 4059801.7    65.4     3.40     4.00
3.16     NO                    NO
 L0000063         0   0.15232E-03  731168.2 4059793.1    65.4     3.40     4.00
3.16     NO                    NO
 L0000064         0   0.15232E-03  731168.4 4059784.5    65.3     3.40     4.00
3.16     NO                    NO
 L0000065         0   0.15232E-03  731168.7 4059775.9    65.3     3.40     4.00
3.16     NO                    NO
 L0000066         0   0.15232E-03  731168.9 4059767.3    65.3     3.40     4.00
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0000081	0	0.15232E-03	731172.8	4059638.4	65.2	3.40	4.00			

```
3.16     NO                    NO
 L0000082         0   0.15232E-03  731173.1 4059629.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000083         0   0.15232E-03  731173.4 4059621.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000084         0   0.15232E-03  731173.6 4059612.6    65.2     3.40     4.00
3.16     NO                    NO
 L0000085         0   0.15232E-03  731173.9 4059604.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000086         0   0.15232E-03  731174.1 4059595.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000087         0   0.15232E-03  731174.4 4059586.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000088         0   0.15232E-03  731174.7 4059578.2    65.1     3.40     4.00
3.16     NO                    NO
 L0000089         0   0.15232E-03  731174.9 4059569.6    65.1     3.40     4.00
3.16     NO                    NO
 L0000090         0   0.15232E-03  731175.2 4059561.0    65.1     3.40     4.00
3.16     NO                    NO
 L0000091         0   0.15232E-03  731175.5 4059552.4    65.1     3.40     4.00
3.16     NO                    NO
 L0000092         0   0.15232E-03  731175.7 4059543.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000093         0   0.15232E-03  731176.0 4059535.2    65.1     3.40     4.00
3.16     NO                    NO
 L0000094         0   0.15232E-03  731176.2 4059526.6    65.1     3.40     4.00
3.16     NO                    NO
 L0000095         0   0.15232E-03  731176.5 4059518.0    65.1     3.40     4.00
3.16     NO                    NO
 L0000096         0   0.15232E-03  731176.8 4059509.4    65.1     3.40     4.00
3.16     NO                    NO
 L0000097         0   0.15232E-03  731177.0 4059500.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000098         0   0.15232E-03  731177.3 4059492.3    65.1     3.40     4.00
3.16     NO                    NO
 L0000099         0   0.15232E-03  731177.5 4059483.7    65.1     3.40     4.00
3.16     NO                    NO
 L0000100         0   0.15232E-03  731177.8 4059475.1    65.1     3.40     4.00
3.16     NO                    NO
 L0000101         0   0.15232E-03  731178.1 4059466.5    65.1     3.40     4.00
3.16     NO                    NO
 L0000102         0   0.15232E-03  731178.3 4059457.9    65.1     3.40     4.00
3.16     NO                    NO
 L0000103         0   0.15232E-03  731178.6 4059449.3    65.1     3.40     4.00
3.16     NO                    NO
 L0000104         0   0.15232E-03  731178.8 4059440.7    65.1     3.40     4.00
3.16     NO                    NO
 L0000105         0   0.15232E-03  731179.1 4059432.1    65.1     3.40     4.00
3.16     NO                    NO
 L0000106         0   0.15232E-03  731179.4 4059423.5    65.1     3.40     4.00
```

3.16 NO NO
L0000107 0 0.15232E-03 731179.6 4059414.9 65.1 3.40 4.00
3.16 NO NO
L0000108 0 0.15232E-03 731179.9 4059406.3 65.1 3.40 4.00
3.16 NO NO
L0000109 0 0.15232E-03 731180.1 4059397.7 65.1 3.40 4.00
3.16 NO NO
L0000110 0 0.15232E-03 731180.4 4059389.1 65.1 3.40 4.00
3.16 NO NO
L0000111 0 0.15232E-03 731180.7 4059380.5 65.1 3.40 4.00
3.16 NO NO
L0000112 0 0.15232E-03 731180.9 4059371.9 65.1 3.40 4.00
3.16 NO NO
L0000113 0 0.15232E-03 731181.2 4059363.3 65.1 3.40 4.00
3.16 NO NO
L0000114 0 0.15232E-03 731181.4 4059354.7 65.1 3.40 4.00
3.16 NO NO
L0000115 0 0.15232E-03 731181.7 4059346.1 65.1 3.40 4.00
3.16 NO NO
L0000116 0 0.15232E-03 731182.0 4059337.5 65.1 3.40 4.00
3.16 NO NO
L0000117 0 0.15232E-03 731182.2 4059328.9 65.2 3.40 4.00
3.16 NO NO
L0000118 0 0.15232E-03 731182.5 4059320.3 65.2 3.40 4.00
3.16 NO NO
L0000119 0 0.15232E-03 731182.7 4059311.7 65.2 3.40 4.00
3.16 NO NO
L0000120 0 0.15232E-03 731183.0 4059303.1 65.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0000121	0	0.15232E-03	731183.3	4059294.5	65.2	3.40	4.00			

```
3.16     NO                    NO
 L0000122         0   0.15232E-03  731183.5 4059285.9    65.2     3.40     4.00
3.16     NO                    NO
 L0000123         0   0.15232E-03  731183.8 4059277.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000124         0   0.15232E-03  731184.0 4059268.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000125         0   0.15232E-03  731184.3 4059260.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000126         0   0.15232E-03  731184.6 4059251.6    65.2     3.40     4.00
3.16     NO                    NO
 L0000127         0   0.15232E-03  731184.8 4059243.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000128         0   0.15232E-03  731185.1 4059234.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000129         0   0.15232E-03  731185.4 4059225.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000130         0   0.15232E-03  731185.6 4059217.2    65.1     3.40     4.00
3.16     NO                    NO
 L0000131         0   0.15232E-03  731185.9 4059208.6    65.1     3.40     4.00
3.16     NO                    NO
 L0000132         0   0.15232E-03  731186.1 4059200.0    65.1     3.40     4.00
3.16     NO                    NO
 L0000133         0   0.15232E-03  731186.4 4059191.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000134         0   0.15232E-03  731186.7 4059182.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000135         0   0.15232E-03  731186.9 4059174.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000136         0   0.15232E-03  731187.2 4059165.6    65.2     3.40     4.00
3.16     NO                    NO
 L0000137         0   0.15232E-03  731187.4 4059157.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000138         0   0.15232E-03  731187.7 4059148.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000139         0   0.15232E-03  731188.0 4059139.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000140         0   0.15232E-03  731188.2 4059131.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000141         0   0.15232E-03  731188.5 4059122.6    65.2     3.40     4.00
3.16     NO                    NO
 L0000142         0   0.15232E-03  731188.7 4059114.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000143         0   0.15232E-03  731189.0 4059105.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000144         0   0.15232E-03  731189.3 4059096.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000145         0   0.15232E-03  731189.5 4059088.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000146         0   0.15232E-03  731189.8 4059079.6    65.2     3.40     4.00
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3.16     NO                     NO
 L0000147         0   0.15232E-03  731190.0 4059071.0    65.2     3.40     4.00
3.16     NO                     NO
 L0000148         0   0.15232E-03  731190.3 4059062.4    65.2     3.40     4.00
3.16     NO                     NO
 L0000149         0   0.15232E-03  731190.6 4059053.9    65.2     3.40     4.00
3.16     NO                     NO
 L0000150         0   0.15232E-03  731190.8 4059045.3    65.2     3.40     4.00
3.16     NO                     NO
 L0000151         0   0.15232E-03  731191.1 4059036.7    65.2     3.40     4.00
3.16     NO                     NO
 L0000152         0   0.15232E-03  731191.3 4059028.1    65.2     3.40     4.00
3.16     NO                     NO
 L0000153         0   0.15232E-03  731191.6 4059019.5    65.2     3.40     4.00
3.16     NO                     NO
 L0000154         0   0.15232E-03  731191.9 4059010.9    65.2     3.40     4.00
3.16     NO                     NO
 L0000155         0   0.15232E-03  731192.1 4059002.3    65.2     3.40     4.00
3.16     NO                     NO
 L0000156         0   0.15232E-03  731192.4 4058993.7    65.2     3.40     4.00
3.16     NO                     NO
 L0000157         0   0.15232E-03  731192.6 4058985.1    65.2     3.40     4.00
3.16     NO                     NO
 L0000158         0   0.15232E-03  731192.9 4058976.5    65.2     3.40     4.00
3.16     NO                     NO
 L0000159         0   0.15232E-03  731193.2 4058967.9    65.2     3.40     4.00
3.16     NO                     NO
 L0000160         0   0.15232E-03  731193.4 4058959.3    65.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000161         0   0.15232E-03  731193.7 4058950.7    65.3     3.40     4.00
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3.16     NO                    NO
 L0000162         0   0.15232E-03  731193.9 4058942.1    65.3     3.40     4.00
3.16     NO                    NO
 L0000163         0   0.15232E-03  731194.2 4058933.5    65.3     3.40     4.00
3.16     NO                    NO
 L0000164         0   0.15232E-03  731194.5 4058924.9    65.3     3.40     4.00
3.16     NO                    NO
 L0000165         0   0.15232E-03  731194.7 4058916.3    65.3     3.40     4.00
3.16     NO                    NO
 L0000166         0   0.15232E-03  731195.0 4058907.7    65.3     3.40     4.00
3.16     NO                    NO
 L0000167         0   0.15232E-03  731196.7 4058900.7    65.2     3.40     4.00
3.16     NO                    NO
 L0000168         0   0.15232E-03  731205.3 4058901.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000169         0   0.15232E-03  731213.9 4058901.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000170         0   0.15232E-03  731222.5 4058901.5    65.1     3.40     4.00
3.16     NO                    NO
 L0000171         0   0.15232E-03  731231.1 4058901.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000172         0   0.15232E-03  731239.7 4058902.1    65.1     3.40     4.00
3.16     NO                    NO
 L0000173         0   0.15232E-03  731248.3 4058902.3    65.1     3.40     4.00
3.16     NO                    NO
 L0000174         0   0.15232E-03  731256.9 4058902.6    65.0     3.40     4.00
3.16     NO                    NO
 L0000175         0   0.15232E-03  731265.5 4058902.9    65.0     3.40     4.00
3.16     NO                    NO
 L0000176         0   0.15232E-03  731274.1 4058903.2    65.0     3.40     4.00
3.16     NO                    NO
 L0000177         0   0.15232E-03  731282.7 4058903.4    65.0     3.40     4.00
3.16     NO                    NO
 L0000178         0   0.15232E-03  731291.3 4058903.7    65.0     3.40     4.00
3.16     NO                    NO
 L0000179         0   0.15232E-03  731299.9 4058904.0    64.9     3.40     4.00
3.16     NO                    NO
 L0000180         0   0.15232E-03  731308.4 4058904.3    64.9     3.40     4.00
3.16     NO                    NO
 L0000181         0   0.15232E-03  731317.0 4058904.6    64.9     3.40     4.00
3.16     NO                    NO
 L0000182         0   0.15232E-03  731325.6 4058904.8    64.8     3.40     4.00
3.16     NO                    NO
 L0000183         0   0.15232E-03  731334.2 4058905.1    64.8     3.40     4.00
3.16     NO                    NO
 L0000184         0   0.15232E-03  731342.8 4058905.4    64.8     3.40     4.00
3.16     NO                    NO
 L0000185         0   0.15232E-03  731351.4 4058905.7    64.7     3.40     4.00
3.16     NO                    NO
 L0000186         0   0.15232E-03  731360.0 4058905.9    64.7     3.40     4.00
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3.16     NO                     NO
 L0000187         0   0.15232E-03  731368.6 4058906.2    64.7     3.40     4.00
3.16     NO                     NO
 L0000188         0   0.15232E-03  731377.2 4058906.5    64.7     3.40     4.00
3.16     NO                     NO
 L0000189         0   0.15232E-03  731385.8 4058906.8    64.7     3.40     4.00
3.16     NO                     NO
 L0000190         0   0.15232E-03  731394.4 4058907.1    64.6     3.40     4.00
3.16     NO                     NO
 L0000191         0   0.15232E-03  731403.0 4058907.3    64.6     3.40     4.00
3.16     NO                     NO
 L0000192         0   0.15232E-03  731411.6 4058907.6    64.6     3.40     4.00
3.16     NO                     NO
 L0000193         0   0.15232E-03  731420.2 4058907.9    64.5     3.40     4.00
3.16     NO                     NO
 L0000194         0   0.15232E-03  731428.8 4058908.2    64.5     3.40     4.00
3.16     NO                     NO
 L0000195         0   0.15232E-03  731437.4 4058908.4    64.5     3.40     4.00
3.16     NO                     NO
 L0000196         0   0.15232E-03  731446.0 4058908.7    64.5     3.40     4.00
3.16     NO                     NO
 L0000197         0   0.15232E-03  731454.6 4058909.0    64.4     3.40     4.00
3.16     NO                     NO
 L0000198         0   0.15232E-03  731463.2 4058909.3    64.4     3.40     4.00
3.16     NO                     NO
 L0000199         0   0.15232E-03  731471.8 4058909.5    64.4     3.40     4.00
3.16     NO                     NO
 L0000200         0   0.15232E-03  731480.4 4058909.8    64.4     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000201         0   0.15232E-03  731489.0 4058910.1    64.4     3.40     4.00
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3.16     NO                    NO
 L0000202         0   0.15232E-03  731497.5 4058910.4    64.3     3.40     4.00
3.16     NO                    NO
 L0000203         0   0.15232E-03  731506.1 4058910.7    64.3     3.40     4.00
3.16     NO                    NO
 L0000204         0   0.15232E-03  731514.7 4058910.9    64.3     3.40     4.00
3.16     NO                    NO
 L0000205         0   0.15232E-03  731523.3 4058911.2    64.2     3.40     4.00
3.16     NO                    NO
 L0000206         0   0.15232E-03  731531.9 4058911.5    64.2     3.40     4.00
3.16     NO                    NO
 L0000207         0   0.15232E-03  731540.5 4058911.8    64.2     3.40     4.00
3.16     NO                    NO
 L0000208         0   0.15232E-03  731549.1 4058912.0    64.1     3.40     4.00
3.16     NO                    NO
 L0000209         0   0.15232E-03  731557.7 4058912.3    64.1     3.40     4.00
3.16     NO                    NO
 L0000210         0   0.15232E-03  731566.3 4058912.6    64.1     3.40     4.00
3.16     NO                    NO
 L0000211         0   0.15232E-03  731574.9 4058912.9    64.0     3.40     4.00
3.16     NO                    NO
 L0000212         0   0.15232E-03  731583.5 4058913.2    64.0     3.40     4.00
3.16     NO                    NO
 L0000213         0   0.15232E-03  731592.1 4058913.4    64.0     3.40     4.00
3.16     NO                    NO
 L0000214         0   0.15232E-03  731600.7 4058913.7    64.0     3.40     4.00
3.16     NO                    NO
 L0000215         0   0.15232E-03  731609.3 4058914.0    64.0     3.40     4.00
3.16     NO                    NO
 L0000216         0   0.15232E-03  731617.9 4058914.3    63.9     3.40     4.00
3.16     NO                    NO
 L0000217         0   0.15232E-03  731626.5 4058914.5    63.9     3.40     4.00
3.16     NO                    NO
 L0000218         0   0.15232E-03  731635.1 4058914.8    63.9     3.40     4.00
3.16     NO                    NO
 L0000219         0   0.15232E-03  731643.7 4058915.1    63.8     3.40     4.00
3.16     NO                    NO
 L0000220         0   0.15232E-03  731652.3 4058915.4    63.8     3.40     4.00
3.16     NO                    NO
 L0000221         0   0.15232E-03  731660.9 4058915.6    63.8     3.40     4.00
3.16     NO                    NO
 L0000222         0   0.15232E-03  731669.5 4058915.9    63.8     3.40     4.00
3.16     NO                    NO
 L0000223         0   0.15232E-03  731678.1 4058916.2    63.7     3.40     4.00
3.16     NO                    NO
 L0000224         0   0.15232E-03  731686.6 4058916.5    63.7     3.40     4.00
3.16     NO                    NO
 L0000225         0   0.15232E-03  731695.2 4058916.8    63.7     3.40     4.00
3.16     NO                    NO
 L0000226         0   0.15232E-03  731703.8 4058917.0    63.7     3.40     4.00
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3.16 NO NO
L0000227 0 0.15232E-03 731712.4 4058917.3 63.7 3.40 4.00
3.16 NO NO
L0000228 0 0.15232E-03 731721.0 4058917.6 63.6 3.40 4.00
3.16 NO NO
L0000229 0 0.15232E-03 731729.6 4058917.9 63.6 3.40 4.00
3.16 NO NO
L0000230 0 0.15232E-03 731738.2 4058918.1 63.6 3.40 4.00
3.16 NO NO
L0000231 0 0.15232E-03 731746.8 4058918.4 63.5 3.40 4.00
3.16 NO NO
L0000232 0 0.15232E-03 731755.4 4058918.7 63.5 3.40 4.00
3.16 NO NO
L0000233 0 0.15232E-03 731764.0 4058919.0 63.5 3.40 4.00
3.16 NO NO
L0000234 0 0.15232E-03 731772.6 4058919.3 63.4 3.40 4.00
3.16 NO NO
L0000235 0 0.15232E-03 731781.2 4058919.5 63.4 3.40 4.00
3.16 NO NO
L0000236 0 0.15232E-03 731789.8 4058919.8 63.4 3.40 4.00
3.16 NO NO
L0000237 0 0.15232E-03 731798.4 4058920.1 63.4 3.40 4.00
3.16 NO NO
L0000238 0 0.15232E-03 731807.0 4058920.4 63.4 3.40 4.00
3.16 NO NO
L0000239 0 0.15232E-03 731815.6 4058920.6 63.4 3.40 4.00
3.16 NO NO
L0000240 0 0.15232E-03 731824.2 4058920.9 63.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0000241	0	0.15232E-03	731832.8	4058921.2	63.3	3.40	4.00			

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3.16     NO                    NO
 L0000242         0   0.15232E-03  731841.4 4058921.5    63.2     3.40     4.00
3.16     NO                    NO
 L0000243         0   0.15232E-03  731850.0 4058921.7    63.2     3.40     4.00
3.16     NO                    NO
 L0000244         0   0.15232E-03  731858.6 4058922.0    63.2     3.40     4.00
3.16     NO                    NO
 L0000245         0   0.15232E-03  731867.2 4058922.3    63.2     3.40     4.00
3.16     NO                    NO
 L0000246         0   0.15232E-03  731875.8 4058922.6    63.2     3.40     4.00
3.16     NO                    NO
 L0000247         0   0.15232E-03  731884.3 4058922.9    63.2     3.40     4.00
3.16     NO                    NO
 L0000248         0   0.15232E-03  731892.9 4058923.1    63.1     3.40     4.00
3.16     NO                    NO
 L0000249         0   0.15232E-03  731901.5 4058923.4    63.1     3.40     4.00
3.16     NO                    NO
 L0000250         0   0.15232E-03  731910.1 4058923.7    63.1     3.40     4.00
3.16     NO                    NO
 L0000251         0   0.15232E-03  731918.7 4058924.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000252         0   0.15232E-03  731927.3 4058924.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000253         0   0.15232E-03  731935.9 4058924.5    63.0     3.40     4.00
3.16     NO                    NO
 L0000254         0   0.15232E-03  731944.5 4058924.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000255         0   0.15232E-03  731953.1 4058925.1    63.0     3.40     4.00
3.16     NO                    NO
 L0000256         0   0.15232E-03  731961.7 4058925.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000257         0   0.15232E-03  731970.3 4058925.6    62.9     3.40     4.00
3.16     NO                    NO
 L0000258         0   0.15232E-03  731978.9 4058925.9    62.9     3.40     4.00
3.16     NO                    NO
 L0000259         0   0.15232E-03  731987.5 4058926.2    62.9     3.40     4.00
3.16     NO                    NO
 L0000260         0   0.15232E-03  731996.1 4058926.5    62.9     3.40     4.00
3.16     NO                    NO
 L0000261         0   0.15232E-03  732001.1 4058923.0    62.9     3.40     4.00
3.16     NO                    NO
 L0000262         0   0.15232E-03  732001.2 4058914.4    62.9     3.40     4.00
3.16     NO                    NO
 L0000263         0   0.15232E-03  732001.3 4058905.8    62.9     3.40     4.00
3.16     NO                    NO
 L0000264         0   0.15232E-03  732001.4 4058897.2    62.9     3.40     4.00
3.16     NO                    NO
 L0000265         0   0.15232E-03  732001.5 4058888.6    62.9     3.40     4.00
3.16     NO                    NO
 L0000266         0   0.15232E-03  732001.6 4058880.0    62.9     3.40     4.00
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3.16 NO NO
L0000267 0 0.15232E-03 732001.6 4058871.4 62.9 3.40 4.00
3.16 NO NO
L0000268 0 0.15232E-03 732001.7 4058862.8 62.9 3.40 4.00
3.16 NO NO
L0000269 0 0.15232E-03 732001.8 4058854.2 62.9 3.40 4.00
3.16 NO NO
L0000270 0 0.15232E-03 732001.9 4058845.6 62.9 3.40 4.00
3.16 NO NO
L0000271 0 0.15232E-03 732002.0 4058837.0 62.9 3.40 4.00
3.16 NO NO
L0000272 0 0.15232E-03 732002.1 4058828.4 62.9 3.40 4.00
3.16 NO NO
L0000273 0 0.15232E-03 732002.2 4058819.8 62.9 3.40 4.00
3.16 NO NO
L0000274 0 0.15232E-03 732002.3 4058811.2 62.9 3.40 4.00
3.16 NO NO
L0000275 0 0.15232E-03 732002.4 4058802.6 62.9 3.40 4.00
3.16 NO NO
L0000276 0 0.15232E-03 732002.5 4058794.0 62.9 3.40 4.00
3.16 NO NO
L0000277 0 0.15232E-03 732002.6 4058785.4 62.9 3.40 4.00
3.16 NO NO
L0000278 0 0.15232E-03 732002.7 4058776.8 62.9 3.40 4.00
3.16 NO NO
L0000279 0 0.15232E-03 732002.8 4058768.2 62.9 3.40 4.00
3.16 NO NO
L0000280 0 0.15232E-03 732002.8 4058759.6 62.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000281	0	0.15232E-03	732002.9	4058751.0	63.0	3.40	4.00			

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3.16     NO                    NO
 L0000282         0   0.15232E-03  732003.0 4058742.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000283         0   0.15232E-03  732003.1 4058733.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000284         0   0.15232E-03  732003.2 4058725.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000285         0   0.15232E-03  732003.3 4058716.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000286         0   0.15232E-03  732003.4 4058708.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000287         0   0.15232E-03  732003.5 4058699.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000288         0   0.15232E-03  732003.6 4058690.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000289         0   0.15232E-03  732003.7 4058682.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000290         0   0.15232E-03  732003.8 4058673.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000291         0   0.15232E-03  732003.9 4058665.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000292         0   0.15232E-03  732003.9 4058656.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000293         0   0.15232E-03  732004.0 4058647.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000294         0   0.15232E-03  732004.1 4058639.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000295         0   0.15232E-03  732004.2 4058630.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000296         0   0.15232E-03  732004.3 4058622.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000297         0   0.15232E-03  732004.4 4058613.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000298         0   0.15232E-03  732004.5 4058604.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000299         0   0.15232E-03  732004.6 4058596.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000300         0   0.15232E-03  732004.7 4058587.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000301         0   0.15232E-03  732004.8 4058579.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000302         0   0.15232E-03  732004.9 4058570.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000303         0   0.15232E-03  732005.0 4058561.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000304         0   0.15232E-03  732005.1 4058553.2    63.1     3.40     4.00
3.16     NO                    NO
 L0000305         0   0.15232E-03  732005.1 4058544.6    63.1     3.40     4.00
3.16     NO                    NO
 L0000306         0   0.15232E-03  732005.2 4058536.0    63.1     3.40     4.00
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3.16     NO                     NO
 L0000307         0   0.15232E-03  732005.3 4058527.4    63.1     3.40     4.00
3.16     NO                     NO
 L0000308         0   0.15232E-03  732005.4 4058518.8    63.1     3.40     4.00
3.16     NO                     NO
 L0000309         0   0.15232E-03  732005.5 4058510.2    63.1     3.40     4.00
3.16     NO                     NO
 L0000310         0   0.15232E-03  732005.6 4058501.6    63.1     3.40     4.00
3.16     NO                     NO
 L0000311         0   0.15232E-03  732005.7 4058493.0    63.1     3.40     4.00
3.16     NO                     NO
 L0000312         0   0.15232E-03  732005.8 4058484.4    63.1     3.40     4.00
3.16     NO                     NO
 L0000313         0   0.15232E-03  732005.9 4058475.8    63.1     3.40     4.00
3.16     NO                     NO
 L0000314         0   0.15232E-03  732006.0 4058467.2    63.1     3.40     4.00
3.16     NO                     NO
 L0000315         0   0.15232E-03  732006.1 4058458.6    63.1     3.40     4.00
3.16     NO                     NO
 L0000316         0   0.15232E-03  732006.2 4058450.0    63.1     3.40     4.00
3.16     NO                     NO
 L0000317         0   0.15232E-03  732006.2 4058441.4    63.1     3.40     4.00
3.16     NO                     NO
 L0000318         0   0.15232E-03  732006.3 4058432.8    63.1     3.40     4.00
3.16     NO                     NO
 L0000319         0   0.15232E-03  732006.4 4058424.2    63.1     3.40     4.00
3.16     NO                     NO
 L0000320         0   0.15232E-03  732006.5 4058415.6    63.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000321         0   0.15232E-03  732006.6 4058407.0    63.2     3.40     4.00
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3.16     NO                    NO
 L0000322         0   0.15232E-03  732006.7 4058398.4    63.2     3.40     4.00
3.16     NO                    NO
 L0000323         0   0.15232E-03  732006.8 4058389.8    63.2     3.40     4.00
3.16     NO                    NO
 L0000324         0   0.15232E-03  732006.9 4058381.2    63.2     3.40     4.00
3.16     NO                    NO
 L0000325         0   0.15232E-03  732007.0 4058372.6    63.2     3.40     4.00
3.16     NO                    NO
 L0000326         0   0.15232E-03  732007.1 4058364.0    63.2     3.40     4.00
3.16     NO                    NO
 L0000327         0   0.15232E-03  732007.2 4058355.4    63.2     3.40     4.00
3.16     NO                    NO
 L0000328         0   0.15232E-03  732007.3 4058346.8    63.2     3.40     4.00
3.16     NO                    NO
 L0000329         0   0.15232E-03  732007.4 4058338.2    63.2     3.40     4.00
3.16     NO                    NO
 L0000330         0   0.15232E-03  732007.4 4058329.6    63.2     3.40     4.00
3.16     NO                    NO
 L0000331         0   0.15232E-03  732007.5 4058321.0    63.2     3.40     4.00
3.16     NO                    NO
 L0000332         0   0.15232E-03  732007.6 4058312.4    63.2     3.40     4.00
3.16     NO                    NO
 L0000333         0   0.15232E-03  732007.7 4058303.8    63.3     3.40     4.00
3.16     NO                    NO
 L0000334         0   0.15232E-03  732007.8 4058295.2    63.3     3.40     4.00
3.16     NO                    NO
 L0000335         0   0.15232E-03  732007.9 4058286.6    63.3     3.40     4.00
3.16     NO                    NO
 L0000336         0   0.15232E-03  732008.0 4058278.0    63.3     3.40     4.00
3.16     NO                    NO
 L0000337         0   0.15232E-03  732008.1 4058269.4    63.3     3.40     4.00
3.16     NO                    NO
 L0000338         0   0.15232E-03  732008.2 4058260.8    63.3     3.40     4.00
3.16     NO                    NO
 L0000339         0   0.15232E-03  732008.3 4058252.2    63.3     3.40     4.00
3.16     NO                    NO
 L0000340         0   0.15232E-03  732008.4 4058243.6    63.4     3.40     4.00
3.16     NO                    NO
 L0000341         0   0.15232E-03  732008.5 4058235.0    63.4     3.40     4.00
3.16     NO                    NO
 L0000342         0   0.15232E-03  732008.5 4058226.4    63.4     3.40     4.00
3.16     NO                    NO
 L0000343         0   0.15232E-03  732008.6 4058217.8    63.4     3.40     4.00
3.16     NO                    NO
 L0000344         0   0.15232E-03  732008.7 4058209.2    63.4     3.40     4.00
3.16     NO                    NO
 L0000345         0   0.15232E-03  732008.8 4058200.6    63.4     3.40     4.00
3.16     NO                    NO
 L0000346         0   0.15232E-03  732008.9 4058192.0    63.4     3.40     4.00
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3.16 NO NO
L0000347 0 0.15232E-03 732009.0 4058183.4 63.4 3.40 4.00
3.16 NO NO
L0000348 0 0.15232E-03 732009.1 4058174.8 63.4 3.40 4.00
3.16 NO NO
L0000349 0 0.15232E-03 732009.2 4058166.2 63.4 3.40 4.00
3.16 NO NO
L0000350 0 0.15232E-03 732009.3 4058157.6 63.4 3.40 4.00
3.16 NO NO
L0000351 0 0.15232E-03 732009.4 4058149.0 63.4 3.40 4.00
3.16 NO NO
L0000352 0 0.15232E-03 732009.5 4058140.4 63.4 3.40 4.00
3.16 NO NO
L0000353 0 0.15232E-03 732009.6 4058131.8 63.4 3.40 4.00
3.16 NO NO
L0000354 0 0.15232E-03 732009.7 4058123.2 63.4 3.40 4.00
3.16 NO NO
L0000355 0 0.15232E-03 732009.7 4058114.6 63.5 3.40 4.00
3.16 NO NO
L0000356 0 0.15232E-03 732009.8 4058106.0 63.5 3.40 4.00
3.16 NO NO
L0000357 0 0.15232E-03 732009.9 4058097.4 63.5 3.40 4.00
3.16 NO NO
L0000358 0 0.15232E-03 732010.0 4058088.8 63.5 3.40 4.00
3.16 NO NO
L0000359 0 0.15232E-03 732010.1 4058080.2 63.5 3.40 4.00
3.16 NO NO
L0000360 0 0.15232E-03 732010.2 4058071.6 63.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000361	0	0.15232E-03	732010.3	4058063.0	63.5	3.40	4.00				

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3.16     NO                    NO
 L0000362         0   0.15232E-03  732010.4 4058054.4    63.5     3.40     4.00
3.16     NO                    NO
 L0000363         0   0.15232E-03  732010.5 4058045.8    63.5     3.40     4.00
3.16     NO                    NO
 L0000364         0   0.15232E-03  732010.6 4058037.2    63.5     3.40     4.00
3.16     NO                    NO
 L0000365         0   0.15232E-03  732010.7 4058028.6    63.5     3.40     4.00
3.16     NO                    NO
 L0000366         0   0.15232E-03  732010.8 4058020.0    63.5     3.40     4.00
3.16     NO                    NO
 L0000367         0   0.15232E-03  732010.8 4058011.4    63.5     3.40     4.00
3.16     NO                    NO
 L0000368         0   0.15232E-03  732010.9 4058002.8    63.5     3.40     4.00
3.16     NO                    NO
 L0000369         0   0.15232E-03  732011.0 4057994.2    63.5     3.40     4.00
3.16     NO                    NO
 L0000370         0   0.15232E-03  732011.1 4057985.6    63.5     3.40     4.00
3.16     NO                    NO
 L0000371         0   0.15232E-03  732011.2 4057977.0    63.5     3.40     4.00
3.16     NO                    NO
 L0000372         0   0.15232E-03  732011.3 4057968.4    63.5     3.40     4.00
3.16     NO                    NO
 L0000373         0   0.15232E-03  732011.4 4057959.8    63.5     3.40     4.00
3.16     NO                    NO
 L0000374         0   0.15232E-03  732011.5 4057951.2    63.5     3.40     4.00
3.16     NO                    NO
 L0000375         0   0.15232E-03  732011.6 4057942.6    63.5     3.40     4.00
3.16     NO                    NO
 L0000376         0   0.15232E-03  732011.7 4057934.1    63.5     3.40     4.00
3.16     NO                    NO
 L0000377         0   0.15232E-03  732011.8 4057925.5    63.5     3.40     4.00
3.16     NO                    NO
 L0000378         0   0.15232E-03  732011.9 4057916.9    63.5     3.40     4.00
3.16     NO                    NO
 L0000379         0   0.15232E-03  732011.9 4057908.3    63.5     3.40     4.00
3.16     NO                    NO
 L0000380         0   0.15232E-03  732012.0 4057899.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000381         0   0.15232E-03  732012.1 4057891.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000382         0   0.15232E-03  732012.2 4057882.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000383         0   0.15232E-03  732012.3 4057873.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000384         0   0.15232E-03  732012.4 4057865.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000385         0   0.15232E-03  732012.5 4057856.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000386         0   0.15232E-03  732012.6 4057848.1    63.6     3.40     4.00
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3.16     NO                     NO
 L0000387         0   0.15232E-03  732012.7 4057839.5    63.6     3.40     4.00
3.16     NO                     NO
 L0000388         0   0.15232E-03  732012.8 4057830.9    63.6     3.40     4.00
3.16     NO                     NO
 L0000389         0   0.15232E-03  732012.9 4057822.3    63.6     3.40     4.00
3.16     NO                     NO
 L0000390         0   0.15232E-03  732013.0 4057813.7    63.6     3.40     4.00
3.16     NO                     NO
 L0000391         0   0.15232E-03  732013.1 4057805.1    63.6     3.40     4.00
3.16     NO                     NO
 L0000392         0   0.15232E-03  732013.1 4057796.5    63.6     3.40     4.00
3.16     NO                     NO
 L0000393         0   0.15232E-03  732013.2 4057787.9    63.6     3.40     4.00
3.16     NO                     NO
 L0000394         0   0.15232E-03  732013.3 4057779.3    63.6     3.40     4.00
3.16     NO                     NO
 L0000395         0   0.15232E-03  732013.4 4057770.7    63.6     3.40     4.00
3.16     NO                     NO
 L0000396         0   0.15232E-03  732013.5 4057762.1    63.6     3.40     4.00
3.16     NO                     NO
 L0000397         0   0.15232E-03  732013.6 4057753.5    63.6     3.40     4.00
3.16     NO                     NO
 L0000398         0   0.15232E-03  732013.7 4057744.9    63.6     3.40     4.00
3.16     NO                     NO
 L0000399         0   0.15232E-03  732013.8 4057736.3    63.6     3.40     4.00
3.16     NO                     NO
 L0000400         0   0.15232E-03  732013.9 4057727.7    63.6     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000401         0   0.15232E-03  732014.0 4057719.1    63.6     3.40     4.00
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3.16     NO                    NO
 L0000402         0   0.15232E-03  732014.1 4057710.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000403         0   0.15232E-03  732014.2 4057701.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000404         0   0.15232E-03  732014.2 4057693.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000405         0   0.15232E-03  732014.3 4057684.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000406         0   0.15232E-03  732014.4 4057676.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000407         0   0.15232E-03  732014.5 4057667.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000408         0   0.15232E-03  732014.6 4057658.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000409         0   0.15232E-03  732014.7 4057650.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000410         0   0.15232E-03  732014.8 4057641.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000411         0   0.15232E-03  732014.9 4057633.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000412         0   0.15232E-03  732015.0 4057624.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000413         0   0.15232E-03  732015.1 4057615.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000414         0   0.15232E-03  732015.2 4057607.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000415         0   0.15232E-03  732015.3 4057598.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000416         0   0.15232E-03  732015.4 4057590.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000417         0   0.15232E-03  732015.4 4057581.5    63.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000419         0   0.15232E-03  732015.6 4057564.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000420         0   0.15232E-03  732015.7 4057555.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000421         0   0.15232E-03  732015.8 4057547.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000422         0   0.15232E-03  732015.9 4057538.5    63.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000424         0   0.15232E-03  732016.1 4057521.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000425         0   0.15232E-03  732016.2 4057512.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000426         0   0.15232E-03  732016.3 4057504.1    63.6     3.40     4.00
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3.16     NO                     NO
 L0000427         0   0.15232E-03  732016.4 4057495.5    63.6     3.40     4.00
3.16     NO                     NO
 L0000428         0   0.15232E-03  732016.5 4057486.9    63.6     3.40     4.00
3.16     NO                     NO
 L0000429         0   0.15232E-03  732016.5 4057478.3    63.6     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0000432         0   0.15232E-03  732016.8 4057452.5    63.6     3.40     4.00
3.16     NO                     NO
 L0000433         0   0.15232E-03  732016.9 4057443.9    63.7     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0000435         0   0.15232E-03  732017.1 4057426.7    63.7     3.40     4.00
3.16     NO                     NO
 L0000436         0   0.15232E-03  732017.2 4057418.1    63.7     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0000438         0   0.15232E-03  732017.4 4057400.9    63.7     3.40     4.00
3.16     NO                     NO
 L0000439         0   0.15232E-03  732017.5 4057392.3    63.7     3.40     4.00
3.16     NO                     NO
 L0000440         0   0.15232E-03  732017.6 4057383.7    63.7     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

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               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000441         0   0.15232E-03  732017.7 4057375.1    63.7     3.40     4.00
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3.16     NO                    NO
 L0000442         0   0.15232E-03  732017.7 4057366.5    63.7     3.40     4.00
3.16     NO                    NO
 L0000443         0   0.15232E-03  732017.8 4057357.9    63.7     3.40     4.00
3.16     NO                    NO
 L0000444         0   0.15232E-03  732017.9 4057349.3    63.7     3.40     4.00
3.16     NO                    NO
 L0000445         0   0.15232E-03  732018.0 4057340.7    63.7     3.40     4.00
3.16     NO                    NO
 L0000446         0   0.15232E-03  732018.1 4057332.1    63.7     3.40     4.00
3.16     NO                    NO
 L0000447         0   0.15232E-03  732018.2 4057323.5    63.7     3.40     4.00
3.16     NO                    NO
 L0000448         0   0.15232E-03  732018.3 4057314.9    63.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000455         0   0.15232E-03  732069.8 4057309.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000456         0   0.15232E-03  732078.4 4057310.2    63.6     3.40     4.00
3.16     NO                    NO
 L0000457         0   0.15232E-03  732087.0 4057310.8    63.6     3.40     4.00
3.16     NO                    NO
 L0000458         0   0.15232E-03  732095.6 4057311.4    63.6     3.40     4.00
3.16     NO                    NO
 L0000459         0   0.15232E-03  732104.2 4057311.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000460         0   0.15232E-03  732112.7 4057312.5    63.5     3.40     4.00
3.16     NO                    NO
 L0000461         0   0.15232E-03  732121.3 4057313.1    63.5     3.40     4.00
3.16     NO                    NO
 L0000462         0   0.15232E-03  732129.9 4057313.6    63.5     3.40     4.00
3.16     NO                    NO
 L0000463         0   0.15232E-03  732138.5 4057314.2    63.5     3.40     4.00
3.16     NO                    NO
 L0000464         0   0.15232E-03  732147.1 4057314.8    63.5     3.40     4.00
3.16     NO                    NO
 L0000465         0   0.15232E-03  732155.6 4057315.3    63.5     3.40     4.00
3.16     NO                    NO
 L0000466         0   0.15232E-03  732164.2 4057315.9    63.5     3.40     4.00
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3.16   NO   NO
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3.16   NO   NO
 L0000468   0   0.15232E-03 732181.4 4057317.0   63.5   3.40   4.00
3.16   NO   NO
 L0000469   0   0.15232E-03 732190.0 4057317.6   63.5   3.40   4.00
3.16   NO   NO
 L0000470   0   0.15232E-03 732198.6 4057318.2   63.4   3.40   4.00
3.16   NO   NO
 L0000471   0   0.15232E-03 732207.1 4057318.7   63.4   3.40   4.00
3.16   NO   NO
 L0000472   0   0.15232E-03 732215.7 4057319.3   63.4   3.40   4.00
3.16   NO   NO
 L0000473   0   0.15232E-03 732224.3 4057319.9   63.4   3.40   4.00
3.16   NO   NO
 L0000474   0   0.15232E-03 732232.9 4057320.4   63.4   3.40   4.00
3.16   NO   NO
 L0000475   0   0.15232E-03 732241.5 4057321.0   63.4   3.40   4.00
3.16   NO   NO
 L0000476   0   0.15232E-03 732250.0 4057321.6   63.4   3.40   4.00
3.16   NO   NO
 L0000477   0   0.15232E-03 732258.6 4057322.1   63.4   3.40   4.00
3.16   NO   NO
 L0000478   0   0.15232E-03 732267.2 4057322.7   63.4   3.40   4.00
3.16   NO   NO
 L0000479   0   0.15232E-03 732275.8 4057323.3   63.4   3.40   4.00
3.16   NO   NO
 L0000480   0   0.15232E-03 732284.4 4057323.8   63.3   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0000481   0   0.15232E-03 732292.9 4057324.4   63.3   3.40   4.00

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3.16     NO                    NO
 L0000482         0   0.15232E-03  732301.5 4057325.0    63.3     3.40     4.00
3.16     NO                    NO
 L0000483         0   0.15232E-03  732310.1 4057325.6    63.3     3.40     4.00
3.16     NO                    NO
 L0000484         0   0.15232E-03  732318.7 4057326.1    63.3     3.40     4.00
3.16     NO                    NO
 L0000485         0   0.15232E-03  732327.3 4057326.7    63.3     3.40     4.00
3.16     NO                    NO
 L0000486         0   0.15232E-03  732335.9 4057327.3    63.3     3.40     4.00
3.16     NO                    NO
 L0000487         0   0.15232E-03  732344.4 4057327.8    63.3     3.40     4.00
3.16     NO                    NO
 L0000488         0   0.15232E-03  732353.0 4057328.4    63.3     3.40     4.00
3.16     NO                    NO
 L0000489         0   0.15232E-03  732361.6 4057329.0    63.2     3.40     4.00
3.16     NO                    NO
 L0000490         0   0.15232E-03  732370.2 4057329.5    63.2     3.40     4.00
3.16     NO                    NO
 L0000491         0   0.15232E-03  732378.8 4057330.1    63.2     3.40     4.00
3.16     NO                    NO
 L0000492         0   0.15232E-03  732387.3 4057330.7    63.1     3.40     4.00
3.16     NO                    NO
 L0000493         0   0.15232E-03  732395.9 4057331.2    63.1     3.40     4.00
3.16     NO                    NO
 L0000494         0   0.15232E-03  732404.5 4057331.8    63.1     3.40     4.00
3.16     NO                    NO
 L0000495         0   0.15232E-03  732413.1 4057332.4    63.1     3.40     4.00
3.16     NO                    NO
 L0000496         0   0.15232E-03  732421.7 4057332.9    63.1     3.40     4.00
3.16     NO                    NO
 L0000497         0   0.15232E-03  732430.2 4057333.5    63.0     3.40     4.00
3.16     NO                    NO
 L0000498         0   0.15232E-03  732438.8 4057334.1    63.0     3.40     4.00
3.16     NO                    NO
 L0000499         0   0.15232E-03  732447.4 4057334.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000500         0   0.15232E-03  732456.0 4057335.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000501         0   0.15232E-03  732464.6 4057335.8    62.9     3.40     4.00
3.16     NO                    NO
 L0000502         0   0.15232E-03  732473.2 4057336.3    62.9     3.40     4.00
3.16     NO                    NO
 L0000503         0   0.15232E-03  732481.7 4057336.9    62.9     3.40     4.00
3.16     NO                    NO
 L0000504         0   0.15232E-03  732490.3 4057337.5    62.9     3.40     4.00
3.16     NO                    NO
 L0000505         0   0.15232E-03  732498.9 4057338.0    62.9     3.40     4.00
3.16     NO                    NO
 L0000506         0   0.15232E-03  732507.5 4057338.6    62.8     3.40     4.00
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3.16     NO                     NO
 L0000507         0   0.15232E-03  732516.1 4057339.2    62.8     3.40     4.00
3.16     NO                     NO
 L0000508         0   0.15232E-03  732524.6 4057339.7    62.8     3.40     4.00
3.16     NO                     NO
 L0000509         0   0.15232E-03  732533.2 4057340.3    62.7     3.40     4.00
3.16     NO                     NO
 L0000510         0   0.15232E-03  732541.8 4057340.9    62.7     3.40     4.00
3.16     NO                     NO
 L0000511         0   0.15232E-03  732550.4 4057341.5    62.7     3.40     4.00
3.16     NO                     NO
 L0000512         0   0.15232E-03  732559.0 4057342.0    62.6     3.40     4.00
3.16     NO                     NO
 L0000513         0   0.15232E-03  732567.5 4057342.6    62.6     3.40     4.00
3.16     NO                     NO
 L0000514         0   0.15232E-03  732576.1 4057343.2    62.6     3.40     4.00
3.16     NO                     NO
 L0000515         0   0.15232E-03  732584.7 4057343.7    62.5     3.40     4.00
3.16     NO                     NO
 L0000516         0   0.15232E-03  732593.3 4057344.3    62.5     3.40     4.00
3.16     NO                     NO
 L0000517         0   0.15232E-03  732601.9 4057344.9    62.5     3.40     4.00
3.16     NO                     NO
 L0000518         0   0.15232E-03  732610.5 4057345.4    62.5     3.40     4.00
3.16     NO                     NO
 L0000519         0   0.15232E-03  732619.0 4057346.0    62.5     3.40     4.00
3.16     NO                     NO
 L0000520         0   0.15232E-03  732627.6 4057346.6    62.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000521         0   0.15232E-03  732636.2 4057347.1    62.4     3.40     4.00
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3.16     NO                    NO
 L0000522         0   0.15232E-03  732644.8 4057347.7    62.4     3.40     4.00
3.16     NO                    NO
 L0000523         0   0.15232E-03  732653.4 4057348.3    62.4     3.40     4.00
3.16     NO                    NO
 L0000524         0   0.15232E-03  732661.9 4057348.8    62.4     3.40     4.00
3.16     NO                    NO
 L0000525         0   0.15232E-03  732670.5 4057349.4    62.3     3.40     4.00
3.16     NO                    NO
 L0000526         0   0.15232E-03  732679.1 4057350.0    62.3     3.40     4.00
3.16     NO                    NO
 L0000527         0   0.15232E-03  732687.7 4057350.5    62.3     3.40     4.00
3.16     NO                    NO
 L0000528         0   0.15232E-03  732696.3 4057351.1    62.3     3.40     4.00
3.16     NO                    NO
 L0000529         0   0.15232E-03  732704.8 4057351.7    62.2     3.40     4.00
3.16     NO                    NO
 L0000530         0   0.15232E-03  732713.4 4057352.2    62.2     3.40     4.00
3.16     NO                    NO
 L0000531         0   0.15232E-03  732722.0 4057352.8    62.2     3.40     4.00
3.16     NO                    NO
 L0000532         0   0.15232E-03  732730.6 4057353.4    62.2     3.40     4.00
3.16     NO                    NO
 L0000533         0   0.15232E-03  732739.2 4057353.9    62.1     3.40     4.00
3.16     NO                    NO
 L0000534         0   0.15232E-03  732747.8 4057354.5    62.1     3.40     4.00
3.16     NO                    NO
 L0000535         0   0.15232E-03  732756.3 4057355.1    62.0     3.40     4.00
3.16     NO                    NO
 L0000536         0   0.15232E-03  732764.9 4057355.6    62.0     3.40     4.00
3.16     NO                    NO
 L0000537         0   0.15232E-03  732773.5 4057356.2    62.0     3.40     4.00
3.16     NO                    NO
 L0000538         0   0.15232E-03  732782.1 4057356.8    62.0     3.40     4.00
3.16     NO                    NO
 L0000539         0   0.15232E-03  732790.7 4057357.4    62.0     3.40     4.00
3.16     NO                    NO
 L0000540         0   0.15232E-03  732799.2 4057357.9    62.0     3.40     4.00
3.16     NO                    NO
 L0000541         0   0.15232E-03  732807.8 4057358.5    61.9     3.40     4.00
3.16     NO                    NO
 L0000542         0   0.15232E-03  732816.4 4057359.1    61.9     3.40     4.00
3.16     NO                    NO
 L0000543         0   0.15232E-03  732825.0 4057359.6    61.9     3.40     4.00
3.16     NO                    NO
 L0000544         0   0.15232E-03  732833.6 4057360.2    61.8     3.40     4.00
3.16     NO                    NO
 L0000545         0   0.15232E-03  732842.1 4057360.8    61.8     3.40     4.00
3.16     NO                    NO
 L0000546         0   0.15232E-03  732850.7 4057361.3    61.8     3.40     4.00
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3.16     NO                     NO
 L0000547         0   0.15232E-03  732859.3 4057361.9    61.8     3.40     4.00
3.16     NO                     NO
 L0000548         0   0.15232E-03  732867.9 4057362.5    61.8     3.40     4.00
3.16     NO                     NO
 L0000549         0   0.15232E-03  732876.5 4057363.0    61.8     3.40     4.00
3.16     NO                     NO
 L0000550         0   0.15232E-03  732885.1 4057363.6    61.7     3.40     4.00
3.16     NO                     NO
 L0000551         0   0.15232E-03  732893.6 4057364.2    61.7     3.40     4.00
3.16     NO                     NO
 L0000552         0   0.15232E-03  732902.2 4057364.7    61.7     3.40     4.00
3.16     NO                     NO
 L0000553         0   0.15232E-03  732910.8 4057365.3    61.6     3.40     4.00
3.16     NO                     NO
 L0000554         0   0.15232E-03  732919.4 4057365.9    61.6     3.40     4.00
3.16     NO                     NO
 L0000555         0   0.15232E-03  732928.0 4057366.4    61.5     3.40     4.00
3.16     NO                     NO
 L0000556         0   0.15232E-03  732936.5 4057367.0    61.5     3.40     4.00
3.16     NO                     NO
 L0000557         0   0.15232E-03  732945.1 4057367.6    61.5     3.40     4.00
3.16     NO                     NO
 L0000558         0   0.15232E-03  732953.7 4057368.1    61.5     3.40     4.00
3.16     NO                     NO
 L0000559         0   0.15232E-03  732962.3 4057368.7    61.5     3.40     4.00
3.16     NO                     NO
 L0000560         0   0.15232E-03  732970.9 4057369.3    61.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                   PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000561         0   0.15232E-03  732979.4 4057369.8    61.4     3.40     4.00
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3.16     NO                    NO
 L0000562         0   0.15232E-03  732988.0 4057370.4    61.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000564         0   0.15232E-03  733005.2 4057371.5    61.3     3.40     4.00
3.16     NO                    NO
 L0000565         0   0.15232E-03  733013.8 4057372.1    61.3     3.40     4.00
3.16     NO                    NO
 L0000566         0   0.15232E-03  733022.4 4057372.7    61.3     3.40     4.00
3.16     NO                    NO
 L0000567         0   0.15232E-03  733030.9 4057373.3    61.3     3.40     4.00
3.16     NO                    NO
 L0000568         0   0.15232E-03  733039.5 4057373.8    61.3     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000570         0   0.15232E-03  733056.7 4057375.0    61.2     3.40     4.00
3.16     NO                    NO
 L0000571         0   0.15232E-03  733065.3 4057375.5    61.2     3.40     4.00
3.16     NO                    NO
 L0000572         0   0.15232E-03  733073.8 4057376.1    61.2     3.40     4.00
3.16     NO                    NO
 L0000573         0   0.15232E-03  733082.4 4057376.7    61.1     3.40     4.00
3.16     NO                    NO
 L0000574         0   0.15232E-03  733091.0 4057377.2    61.1     3.40     4.00
3.16     NO                    NO
 L0000575         0   0.15232E-03  733099.6 4057377.8    61.1     3.40     4.00
3.16     NO                    NO
 L0000576         0   0.15232E-03  733108.2 4057378.4    61.0     3.40     4.00
3.16     NO                    NO
 L0000577         0   0.15232E-03  733116.7 4057378.9    61.0     3.40     4.00
3.16     NO                    NO
 L0000578         0   0.15232E-03  733125.3 4057379.5    61.0     3.40     4.00
3.16     NO                    NO
 L0000579         0   0.15232E-03  733133.9 4057380.1    61.0     3.40     4.00
3.16     NO                    NO
 L0000580         0   0.15232E-03  733142.5 4057380.6    61.0     3.40     4.00
3.16     NO                    NO
 L0000581         0   0.15232E-03  733151.1 4057381.2    60.9     3.40     4.00
3.16     NO                    NO
 L0000582         0   0.15232E-03  733159.7 4057381.8    60.9     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000584         0   0.15232E-03  733176.8 4057382.9    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000586         0   0.15232E-03  733194.0 4057384.0    60.8     3.40     4.00
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3.16 NO NO
L0000587 0 0.15232E-03 733197.1 4057378.5 60.8 3.40 4.00
3.16 NO NO
L0000588 0 0.15232E-03 733197.5 4057369.9 60.8 3.40 4.00
3.16 NO NO
L0000589 0 0.15232E-03 733198.0 4057361.3 60.8 3.40 4.00
3.16 NO NO
L0000590 0 0.15232E-03 733198.4 4057352.7 60.8 3.40 4.00
3.16 NO NO
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3.16 NO NO
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3.16 NO NO
L0000593 0 0.15232E-03 733199.7 4057327.0 60.8 3.40 4.00
3.16 NO NO
L0000594 0 0.15232E-03 733200.1 4057318.4 60.9 3.40 4.00
3.16 NO NO
L0000595 0 0.15232E-03 733200.5 4057309.8 60.9 3.40 4.00
3.16 NO NO
L0000596 0 0.15232E-03 733200.9 4057301.2 60.9 3.40 4.00
3.16 NO NO
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3.16 NO NO
L0000598 0 0.15232E-03 733201.8 4057284.0 60.9 3.40 4.00
3.16 NO NO
L0000599 0 0.15232E-03 733202.2 4057275.4 60.9 3.40 4.00
3.16 NO NO
L0000600 0 0.15232E-03 733202.6 4057266.8 60.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE SCALAR VARY BY	AIRCRAFT
L0000601	0	0.15232E-03	733203.0	4057258.3	60.9	3.40	4.00			

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3.16     NO                    NO
 L0000603         0   0.15232E-03  733203.9 4057241.1    60.9     3.40     4.00
3.16     NO                    NO
 L0000604         0   0.15232E-03  733204.3 4057232.5    60.9     3.40     4.00
3.16     NO                    NO
 L0000605         0   0.15232E-03  733204.7 4057223.9    60.8     3.40     4.00
3.16     NO                    NO
 L0000606         0   0.15232E-03  733205.2 4057215.3    60.8     3.40     4.00
3.16     NO                    NO
 L0000607         0   0.15232E-03  733205.6 4057206.7    60.8     3.40     4.00
3.16     NO                    NO
 L0000608         0   0.15232E-03  733206.0 4057198.1    60.8     3.40     4.00
3.16     NO                    NO
 L0000609         0   0.15232E-03  733206.4 4057189.5    60.8     3.40     4.00
3.16     NO                    NO
 L0000610         0   0.15232E-03  733206.8 4057180.9    60.8     3.40     4.00
3.16     NO                    NO
 L0000611         0   0.15232E-03  733207.3 4057172.4    60.8     3.40     4.00
3.16     NO                    NO
 L0000612         0   0.15232E-03  733207.7 4057163.8    60.8     3.40     4.00
3.16     NO                    NO
 L0000613         0   0.15232E-03  733208.1 4057155.2    60.8     3.40     4.00
3.16     NO                    NO
 L0000614         0   0.15232E-03  733208.5 4057146.6    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000616         0   0.15232E-03  733209.4 4057129.4    60.8     3.40     4.00
3.16     NO                    NO
 L0000617         0   0.15232E-03  733209.8 4057120.8    60.8     3.40     4.00
3.16     NO                    NO
 L0000618         0   0.15232E-03  733210.2 4057112.2    60.8     3.40     4.00
3.16     NO                    NO
 L0000619         0   0.15232E-03  733210.6 4057103.6    60.8     3.40     4.00
3.16     NO                    NO
 L0000620         0   0.15232E-03  733211.1 4057095.1    60.8     3.40     4.00
3.16     NO                    NO
 L0000621         0   0.15232E-03  733211.5 4057086.5    60.8     3.40     4.00
3.16     NO                    NO
 L0000622         0   0.15232E-03  733211.9 4057077.9    60.8     3.40     4.00
3.16     NO                    NO
 L0000623         0   0.15232E-03  733212.3 4057069.3    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000625         0   0.15232E-03  733213.2 4057052.1    60.8     3.40     4.00
3.16     NO                    NO
 L0000626         0   0.15232E-03  733213.6 4057043.5    60.8     3.40     4.00
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3.16   NO   NO
 L0000627   0   0.15232E-03 733214.0 4057034.9   60.8   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0000629   0   0.15232E-03 733214.9 4057017.7   60.8   3.40   4.00
3.16   NO   NO
 L0000630   0   0.15232E-03 733215.3 4057009.2   60.8   3.40   4.00
3.16   NO   NO
 L0000631   0   0.15232E-03 733215.7 4057000.6   60.8   3.40   4.00
3.16   NO   NO
 L0000632   0   0.15232E-03 733216.1 4056992.0   60.9   3.40   4.00
3.16   NO   NO
 L0000633   0   0.15232E-03 733216.6 4056983.4   60.9   3.40   4.00
3.16   NO   NO
 L0000634   0   0.15232E-03 733217.0 4056974.8   60.9   3.40   4.00
3.16   NO   NO
 L0000635   0   0.15232E-03 733217.4 4056966.2   60.9   3.40   4.00
3.16   NO   NO
 L0000636   0   0.15232E-03 733217.8 4056957.6   60.9   3.40   4.00
3.16   NO   NO
 L0000637   0   0.15232E-03 733218.2 4056949.0   60.9   3.40   4.00
3.16   NO   NO
 L0000638   0   0.15232E-03 733218.7 4056940.4   60.9   3.40   4.00
3.16   NO   NO
 L0000639   0   0.15232E-03 733219.1 4056931.9   60.9   3.40   4.00
3.16   NO   NO
 L0000640   0   0.15232E-03 733219.5 4056923.3   60.9   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0000641   0   0.15232E-03 733219.9 4056914.7   60.9   3.40   4.00

```
3.16     NO                    NO
 L0000642         0   0.15232E-03  733220.4 4056906.1    60.9     3.40     4.00
3.16     NO                    NO
 L0000643         0   0.15232E-03  733220.8 4056897.5    60.9     3.40     4.00
3.16     NO                    NO
 L0000644         0   0.15232E-03  733221.2 4056888.9    60.9     3.40     4.00
3.16     NO                    NO
 L0000645         0   0.15232E-03  733221.6 4056880.3    60.9     3.40     4.00
3.16     NO                    NO
 L0000646         0   0.15232E-03  733222.0 4056871.7    60.9     3.40     4.00
3.16     NO                    NO
 L0000647         0   0.15232E-03  733222.5 4056863.1    60.9     3.40     4.00
3.16     NO                    NO
 L0000648         0   0.15232E-03  733224.0 4056855.7    60.9     3.40     4.00
3.16     NO                    NO
 L0000649         0   0.15232E-03  733232.5 4056856.2    60.8     3.40     4.00
3.16     NO                    NO
 L0000650         0   0.15232E-03  733241.1 4056856.6    60.8     3.40     4.00
3.16     NO                    NO
 L0000651         0   0.15232E-03  733249.7 4056857.1    60.8     3.40     4.00
3.16     NO                    NO
 L0000652         0   0.15232E-03  733258.3 4056857.5    60.8     3.40     4.00
3.16     NO                    NO
 L0000653         0   0.15232E-03  733266.9 4056858.0    60.8     3.40     4.00
3.16     NO                    NO
 L0000654         0   0.15232E-03  733275.5 4056858.4    60.7     3.40     4.00
3.16     NO                    NO
 L0000655         0   0.15232E-03  733284.1 4056858.9    60.7     3.40     4.00
3.16     NO                    NO
 L0000656         0   0.15232E-03  733292.7 4056859.3    60.7     3.40     4.00
3.16     NO                    NO
 L0000657         0   0.15232E-03  733301.2 4056859.8    60.7     3.40     4.00
3.16     NO                    NO
 L0000658         0   0.15232E-03  733309.8 4056860.2    60.7     3.40     4.00
3.16     NO                    NO
 L0000659         0   0.15232E-03  733318.4 4056860.7    60.6     3.40     4.00
3.16     NO                    NO
 L0000660         0   0.15232E-03  733327.0 4056861.1    60.6     3.40     4.00
3.16     NO                    NO
 L0000661         0   0.15232E-03  733335.6 4056861.6    60.6     3.40     4.00
3.16     NO                    NO
 L0000662         0   0.15232E-03  733344.2 4056862.0    60.6     3.40     4.00
3.16     NO                    NO
 L0000663         0   0.15232E-03  733352.8 4056862.5    60.6     3.40     4.00
3.16     NO                    NO
 L0000664         0   0.15232E-03  733361.4 4056863.0    60.6     3.40     4.00
3.16     NO                    NO
 L0000665         0   0.15232E-03  733370.0 4056863.4    60.5     3.40     4.00
3.16     NO                    NO
 L0000666         0   0.15232E-03  733378.5 4056863.9    60.5     3.40     4.00
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3.16 NO NO
L0000667 0 0.15232E-03 733387.1 4056864.3 60.5 3.40 4.00
3.16 NO NO
L0000668 0 0.15232E-03 733387.4 4056872.6 60.5 3.40 4.00
3.16 NO NO
L0000669 0 0.15232E-03 733387.3 4056881.2 60.5 3.40 4.00
3.16 NO NO
L0000670 0 0.15232E-03 733387.2 4056889.8 60.5 3.40 4.00
3.16 NO NO
L0000671 0 0.15232E-03 733387.1 4056898.4 60.5 3.40 4.00
3.16 NO NO
L0000672 0 0.15232E-03 733386.9 4056907.0 60.5 3.40 4.00
3.16 NO NO
L0000673 0 0.15232E-03 733386.8 4056915.6 60.5 3.40 4.00
3.16 NO NO
L0000674 0 0.15232E-03 733386.7 4056924.2 60.5 3.40 4.00
3.16 NO NO
L0000675 0 0.15232E-03 733386.6 4056932.8 60.5 3.40 4.00
3.16 NO NO
L0000676 0 0.15232E-03 733386.5 4056941.4 60.5 3.40 4.00
3.16 NO NO
L0000677 0 0.15232E-03 733386.4 4056950.0 60.5 3.40 4.00
3.16 NO NO
L0000678 0 0.15232E-03 733386.3 4056958.6 60.5 3.40 4.00
3.16 NO NO
L0000679 0 0.15232E-03 733386.2 4056967.2 60.5 3.40 4.00
3.16 NO NO
L0000680 0 0.15232E-03 733386.1 4056975.8 60.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0000681	0	0.15232E-03	733386.0	4056984.4	60.5	3.40	4.00			

```
3.16     NO                    NO
 L0000682         0   0.15232E-03  733385.9 4056993.0    60.5     3.40     4.00
3.16     NO                    NO
 L0000683         0   0.15232E-03  733385.8 4057001.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000684         0   0.15232E-03  733385.7 4057010.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000685         0   0.15232E-03  733385.6 4057018.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000686         0   0.15232E-03  733385.5 4057027.4    60.4     3.40     4.00
3.16     NO                    NO
 L0000687         0   0.15232E-03  733385.4 4057036.0    60.4     3.40     4.00
3.16     NO                    NO
 L0000688         0   0.15232E-03  733385.3 4057044.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000689         0   0.15232E-03  733385.1 4057053.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000690         0   0.15232E-03  733385.0 4057061.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000691         0   0.15232E-03  733384.9 4057070.4    60.4     3.40     4.00
3.16     NO                    NO
 L0000692         0   0.15232E-03  733384.8 4057079.0    60.4     3.40     4.00
3.16     NO                    NO
 L0000693         0   0.15232E-03  733384.7 4057087.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000694         0   0.15232E-03  733384.6 4057096.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000695         0   0.15232E-03  733384.5 4057104.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000696         0   0.15232E-03  733384.4 4057113.4    60.4     3.40     4.00
3.16     NO                    NO
 L0000697         0   0.15232E-03  733384.3 4057122.0    60.4     3.40     4.00
3.16     NO                    NO
 L0000698         0   0.15232E-03  733384.2 4057130.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000699         0   0.15232E-03  733384.1 4057139.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000700         0   0.15232E-03  733384.0 4057147.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000701         0   0.15232E-03  733383.9 4057156.4    60.4     3.40     4.00
3.16     NO                    NO
 L0000702         0   0.15232E-03  733383.8 4057165.0    60.4     3.40     4.00
3.16     NO                    NO
 L0000703         0   0.15232E-03  733383.7 4057173.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000704         0   0.15232E-03  733383.6 4057182.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000705         0   0.15232E-03  733383.5 4057190.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000706         0   0.15232E-03  733383.3 4057199.4    60.4     3.40     4.00
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3.16 NO NO
L0000707 0 0.15232E-03 733383.2 4057208.0 60.4 3.40 4.00
3.16 NO NO
L0000708 0 0.15232E-03 733383.1 4057216.6 60.3 3.40 4.00
3.16 NO NO
L0000709 0 0.15232E-03 733383.0 4057225.2 60.3 3.40 4.00
3.16 NO NO
L0000710 0 0.15232E-03 733382.9 4057233.8 60.3 3.40 4.00
3.16 NO NO
L0000711 0 0.15232E-03 733382.8 4057242.4 60.3 3.40 4.00
3.16 NO NO
L0000712 0 0.15232E-03 733382.7 4057251.0 60.3 3.40 4.00
3.16 NO NO
L0000713 0 0.15232E-03 733382.6 4057259.5 60.3 3.40 4.00
3.16 NO NO
L0000714 0 0.15232E-03 733382.5 4057268.1 60.3 3.40 4.00
3.16 NO NO
L0000715 0 0.15232E-03 733382.4 4057276.7 60.3 3.40 4.00
3.16 NO NO
L0000716 0 0.15232E-03 733382.3 4057285.3 60.3 3.40 4.00
3.16 NO NO
L0000717 0 0.15232E-03 733382.2 4057293.9 60.3 3.40 4.00
3.16 NO NO
L0000718 0 0.15232E-03 733382.1 4057302.5 60.3 3.40 4.00
3.16 NO NO
L0000719 0 0.15232E-03 733382.0 4057311.1 60.3 3.40 4.00
3.16 NO NO
L0000720 0 0.15232E-03 733381.9 4057319.7 60.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0000721	0	0.15232E-03	733381.8	4057328.3	60.3	3.40	4.00			

```
3.16     NO                    NO
 L0000722         0   0.15232E-03  733381.7 4057336.9    60.3     3.40     4.00
3.16     NO                    NO
 L0000723         0   0.15232E-03  733381.5 4057345.5    60.3     3.40     4.00
3.16     NO                    NO
 L0000724         0   0.15232E-03  733381.4 4057354.1    60.3     3.40     4.00
3.16     NO                    NO
 L0000725         0   0.15232E-03  733381.3 4057362.7    60.3     3.40     4.00
3.16     NO                    NO
 L0000726         0   0.15232E-03  733381.2 4057371.3    60.3     3.40     4.00
3.16     NO                    NO
 L0000727         0   0.15232E-03  733381.1 4057379.9    60.3     3.40     4.00
3.16     NO                    NO
 L0000728         0   0.15232E-03  733381.0 4057388.5    60.3     3.40     4.00
3.16     NO                    NO
 L0000729         0   0.15232E-03  733380.9 4057397.1    60.3     3.40     4.00
3.16     NO                    NO
 L0000730         0   0.15232E-03  733380.8 4057405.7    60.3     3.40     4.00
3.16     NO                    NO
 L0000731         0   0.15232E-03  733380.7 4057414.3    60.2     3.40     4.00
3.16     NO                    NO
 L0000732         0   0.15232E-03  733380.6 4057422.9    60.2     3.40     4.00
3.16     NO                    NO
 L0000733         0   0.15232E-03  733380.5 4057431.5    60.2     3.40     4.00
3.16     NO                    NO
 L0000734         0   0.15232E-03  733380.4 4057440.1    60.2     3.40     4.00
3.16     NO                    NO
 L0000735         0   0.15232E-03  733380.3 4057448.7    60.2     3.40     4.00
3.16     NO                    NO
 L0000736         0   0.15232E-03  733380.2 4057457.3    60.2     3.40     4.00
3.16     NO                    NO
 L0000737         0   0.15232E-03  733380.1 4057465.9    60.2     3.40     4.00
3.16     NO                    NO
 L0000738         0   0.15232E-03  733380.0 4057474.5    60.2     3.40     4.00
3.16     NO                    NO
 L0000739         0   0.15232E-03  733379.9 4057483.1    60.2     3.40     4.00
3.16     NO                    NO
 L0000740         0   0.15232E-03  733379.7 4057491.7    60.2     3.40     4.00
3.16     NO                    NO
 L0000741         0   0.15232E-03  733379.6 4057500.3    60.2     3.40     4.00
3.16     NO                    NO
 L0000742         0   0.15232E-03  733379.5 4057508.9    60.2     3.40     4.00
3.16     NO                    NO
 L0000743         0   0.15232E-03  733379.4 4057517.5    60.2     3.40     4.00
3.16     NO                    NO
 L0000744         0   0.15232E-03  733379.3 4057526.1    60.2     3.40     4.00
3.16     NO                    NO
 L0000745         0   0.15232E-03  733379.2 4057534.7    60.2     3.40     4.00
3.16     NO                    NO
 L0000746         0   0.15232E-03  733379.1 4057543.3    60.2     3.40     4.00
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3.16   NO   NO
 L0000747   0   0.15232E-03 733379.0 4057551.9   60.2   3.40   4.00
3.16   NO   NO
 L0000748   0   0.15232E-03 733378.9 4057560.5   60.2   3.40   4.00
3.16   NO   NO
 L0000749   0   0.15232E-03 733378.8 4057569.1   60.2   3.40   4.00
3.16   NO   NO
 L0000750   0   0.15232E-03 733378.7 4057577.7   60.2   3.40   4.00
3.16   NO   NO
 L0000751   0   0.15232E-03 733378.6 4057586.3   60.2   3.40   4.00
3.16   NO   NO
 L0000752   0   0.15232E-03 733378.5 4057594.9   60.2   3.40   4.00
3.16   NO   NO
 L0000753   0   0.15232E-03 733378.4 4057603.5   60.2   3.40   4.00
3.16   NO   NO
 L0000754   0   0.15232E-03 733378.3 4057612.1   60.2   3.40   4.00
3.16   NO   NO
 L0000755   0   0.15232E-03 733378.2 4057620.7   60.2   3.40   4.00
3.16   NO   NO
 L0000756   0   0.15232E-03 733378.1 4057629.3   60.2   3.40   4.00
3.16   NO   NO
 L0000757   0   0.15232E-03 733377.9 4057637.9   60.2   3.40   4.00
3.16   NO   NO
 L0000758   0   0.15232E-03 733377.8 4057646.5   60.1   3.40   4.00
3.16   NO   NO
 L0000759   0   0.15232E-03 733377.7 4057655.1   60.1   3.40   4.00
3.16   NO   NO
 L0000760   0   0.15232E-03 733377.6 4057663.7   60.1   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0000761   0   0.15232E-03 733377.5 4057672.3   60.1   3.40   4.00

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3.16     NO                    NO
 L0000762         0   0.15232E-03  733377.4 4057680.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000763         0   0.15232E-03  733377.3 4057689.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000764         0   0.15232E-03  733377.2 4057698.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000765         0   0.15232E-03  733377.1 4057706.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000766         0   0.15232E-03  733377.0 4057715.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000767         0   0.15232E-03  733376.9 4057723.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000768         0   0.15232E-03  733376.8 4057732.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000769         0   0.15232E-03  733376.7 4057741.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000770         0   0.15232E-03  733376.6 4057749.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000771         0   0.15232E-03  733376.5 4057758.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000772         0   0.15232E-03  733376.4 4057766.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000773         0   0.15232E-03  733376.3 4057775.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000774         0   0.15232E-03  733376.1 4057784.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000775         0   0.15232E-03  733376.0 4057792.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000776         0   0.15232E-03  733375.9 4057801.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000777         0   0.15232E-03  733375.8 4057809.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000778         0   0.15232E-03  733375.7 4057818.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000779         0   0.15232E-03  733375.6 4057827.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000780         0   0.15232E-03  733375.5 4057835.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000781         0   0.15232E-03  733375.4 4057844.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000782         0   0.15232E-03  733375.3 4057852.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000783         0   0.15232E-03  733375.2 4057861.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000784         0   0.15232E-03  733375.1 4057870.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000785         0   0.15232E-03  733375.0 4057878.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000786         0   0.15232E-03  733374.9 4057887.3    60.1     3.40     4.00
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3.16 NO NO
L0000787 0 0.15232E-03 733374.8 4057895.9 60.1 3.40 4.00
3.16 NO NO
L0000788 0 0.15232E-03 733374.7 4057904.5 60.1 3.40 4.00
3.16 NO NO
L0000789 0 0.15232E-03 733374.6 4057913.1 60.1 3.40 4.00
3.16 NO NO
L0000790 0 0.15232E-03 733374.5 4057921.7 60.1 3.40 4.00
3.16 NO NO
L0000791 0 0.15232E-03 733374.3 4057930.3 60.1 3.40 4.00
3.16 NO NO
L0000792 0 0.15232E-03 733374.2 4057938.9 60.1 3.40 4.00
3.16 NO NO
L0000793 0 0.15232E-03 733374.1 4057947.5 60.1 3.40 4.00
3.16 NO NO
L0000794 0 0.15232E-03 733374.0 4057956.1 60.1 3.40 4.00
3.16 NO NO
L0000795 0 0.15232E-03 733373.9 4057964.7 60.1 3.40 4.00
3.16 NO NO
L0000796 0 0.15232E-03 733373.8 4057973.3 60.1 3.40 4.00
3.16 NO NO
L0000797 0 0.15232E-03 733373.7 4057981.9 60.1 3.40 4.00
3.16 NO NO
L0000798 0 0.15232E-03 733373.6 4057990.5 60.1 3.40 4.00
3.16 NO NO
L0000799 0 0.15232E-03 733373.5 4057999.1 60.1 3.40 4.00
3.16 NO NO
L0000800 0 0.15232E-03 733373.4 4058007.7 60.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0000801	0	0.15232E-03	733373.3	4058016.3	60.1	3.40	4.00			

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3.16     NO                    NO
 L0000802         0   0.15232E-03  733373.2 4058024.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000803         0   0.15232E-03  733373.1 4058033.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000804         0   0.15232E-03  733373.0 4058042.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000805         0   0.15232E-03  733372.9 4058050.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000806         0   0.15232E-03  733372.8 4058059.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000807         0   0.15232E-03  733372.7 4058067.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000808         0   0.15232E-03  733372.5 4058076.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000809         0   0.15232E-03  733372.4 4058085.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000810         0   0.15232E-03  733372.3 4058093.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000811         0   0.15232E-03  733372.2 4058102.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000812         0   0.15232E-03  733372.1 4058110.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000813         0   0.15232E-03  733372.0 4058119.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000814         0   0.15232E-03  733371.9 4058128.1    60.0     3.40     4.00
3.16     NO                    NO
 L0000815         0   0.15232E-03  733371.8 4058136.7    60.0     3.40     4.00
3.16     NO                    NO
 L0000816         0   0.15232E-03  733371.7 4058145.3    60.0     3.40     4.00
3.16     NO                    NO
 L0000817         0   0.15232E-03  733371.6 4058153.9    60.0     3.40     4.00
3.16     NO                    NO
 L0000818         0   0.15232E-03  733371.5 4058162.5    60.0     3.40     4.00
3.16     NO                    NO
 L0000819         0   0.15232E-03  733371.4 4058171.1    60.0     3.40     4.00
3.16     NO                    NO
 L0000820         0   0.15232E-03  733371.3 4058179.7    60.0     3.40     4.00
3.16     NO                    NO
 L0000821         0   0.15232E-03  733371.2 4058188.3    60.0     3.40     4.00
3.16     NO                    NO
 L0000822         0   0.15232E-03  733371.1 4058196.9    60.0     3.40     4.00
3.16     NO                    NO
 L0000823         0   0.15232E-03  733371.0 4058205.5    60.0     3.40     4.00
3.16     NO                    NO
 L0000824         0   0.15232E-03  733370.9 4058214.1    60.0     3.40     4.00
3.16     NO                    NO
 L0000825         0   0.15232E-03  733370.7 4058222.7    60.0     3.40     4.00
3.16     NO                    NO
 L0000826         0   0.15232E-03  733370.6 4058231.3    60.0     3.40     4.00
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3.16     NO                     NO
 L0000827         0   0.15232E-03  733370.5 4058239.9    60.0     3.40     4.00
3.16     NO                     NO
 L0000828         0   0.15232E-03  733370.4 4058248.5    60.0     3.40     4.00
3.16     NO                     NO
 L0000829         0   0.15232E-03  733370.3 4058257.1    59.9     3.40     4.00
3.16     NO                     NO
 L0000830         0   0.15232E-03  733370.2 4058265.7    59.9     3.40     4.00
3.16     NO                     NO
 L0000831         0   0.15232E-03  733370.1 4058274.3    59.9     3.40     4.00
3.16     NO                     NO
 L0000832         0   0.15232E-03  733370.0 4058282.9    59.9     3.40     4.00
3.16     NO                     NO
 L0000833         0   0.15232E-03  733369.9 4058291.5    59.9     3.40     4.00
3.16     NO                     NO
 L0000834         0   0.15232E-03  733369.8 4058300.1    59.9     3.40     4.00
3.16     NO                     NO
 L0000835         0   0.15232E-03  733369.7 4058308.7    59.9     3.40     4.00
3.16     NO                     NO
 L0000836         0   0.15232E-03  733369.6 4058317.3    59.9     3.40     4.00
3.16     NO                     NO
 L0000837         0   0.15232E-03  733369.5 4058325.9    59.9     3.40     4.00
3.16     NO                     NO
 L0000838         0   0.15232E-03  733369.4 4058334.5    59.9     3.40     4.00
3.16     NO                     NO
 L0000839         0   0.15232E-03  733369.3 4058343.1    59.9     3.40     4.00
3.16     NO                     NO
 L0000840         0   0.15232E-03  733369.2 4058351.7    59.8     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000841         0   0.15232E-03  733369.1 4058360.3    59.8     3.40     4.00
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3.16     NO                    NO
 L0000842         0   0.15232E-03  733368.9 4058368.9    59.8     3.40     4.00
3.16     NO                    NO
 L0000843         0   0.15232E-03  733368.8 4058377.5    59.8     3.40     4.00
3.16     NO                    NO
 L0000844         0   0.15232E-03  733368.7 4058386.1    59.8     3.40     4.00
3.16     NO                    NO
 L0000845         0   0.15232E-03  733368.6 4058394.7    59.8     3.40     4.00
3.16     NO                    NO
 L0000846         0   0.15232E-03  733368.5 4058403.3    59.8     3.40     4.00
3.16     NO                    NO
 L0000847         0   0.15232E-03  733368.4 4058411.9    59.8     3.40     4.00
3.16     NO                    NO
 L0000848         0   0.15232E-03  733368.3 4058420.5    59.8     3.40     4.00
3.16     NO                    NO
 L0000849         0   0.15232E-03  733368.2 4058429.1    59.8     3.40     4.00
3.16     NO                    NO
 L0000850         0   0.15232E-03  733368.1 4058437.7    59.8     3.40     4.00
3.16     NO                    NO
 L0000851         0   0.15232E-03  733368.0 4058446.3    59.8     3.40     4.00
3.16     NO                    NO
 L0000852         0   0.15232E-03  733367.9 4058454.9    59.8     3.40     4.00
3.16     NO                    NO
 L0000853         0   0.15232E-03  733367.8 4058463.5    59.8     3.40     4.00
3.16     NO                    NO
 L0000854         0   0.15232E-03  733367.7 4058472.1    59.7     3.40     4.00
3.16     NO                    NO
 L0000855         0   0.15232E-03  733367.6 4058480.7    59.7     3.40     4.00
3.16     NO                    NO
 L0000856         0   0.15232E-03  733367.5 4058489.3    59.7     3.40     4.00
3.16     NO                    NO
 L0000857         0   0.15232E-03  733367.4 4058497.9    59.7     3.40     4.00
3.16     NO                    NO
 L0000858         0   0.15232E-03  733367.3 4058506.5    59.7     3.40     4.00
3.16     NO                    NO
 L0000859         0   0.15232E-03  733367.1 4058515.1    59.7     3.40     4.00
3.16     NO                    NO
 L0000860         0   0.15232E-03  733367.0 4058523.7    59.7     3.40     4.00
3.16     NO                    NO
 L0000861         0   0.15232E-03  733366.9 4058532.3    59.7     3.40     4.00
3.16     NO                    NO
 L0000862         0   0.15232E-03  733366.8 4058540.9    59.7     3.40     4.00
3.16     NO                    NO
 L0000863         0   0.15232E-03  733366.7 4058549.5    59.7     3.40     4.00
3.16     NO                    NO
 L0000864         0   0.15232E-03  733366.6 4058558.1    59.6     3.40     4.00
3.16     NO                    NO
 L0000865         0   0.15232E-03  733366.5 4058566.7    59.6     3.40     4.00
3.16     NO                    NO
 L0000866         0   0.15232E-03  733366.4 4058575.2    59.6     3.40     4.00
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3.16     NO                     NO
 L0000867         0   0.15232E-03  733366.3 4058583.8    59.6     3.40     4.00
3.16     NO                     NO
 L0000868         0   0.15232E-03  733366.2 4058592.4    59.6     3.40     4.00
3.16     NO                     NO
 L0000869         0   0.15232E-03  733366.1 4058601.0    59.6     3.40     4.00
3.16     NO                     NO
 L0000870         0   0.15232E-03  733366.0 4058609.6    59.6     3.40     4.00
3.16     NO                     NO
 L0000871         0   0.15232E-03  733365.9 4058618.2    59.6     3.40     4.00
3.16     NO                     NO
 L0000872         0   0.15232E-03  733365.8 4058626.8    59.5     3.40     4.00
3.16     NO                     NO
 L0000873         0   0.15232E-03  733365.7 4058635.4    59.5     3.40     4.00
3.16     NO                     NO
 L0000874         0   0.15232E-03  733365.6 4058644.0    59.5     3.40     4.00
3.16     NO                     NO
 L0000875         0   0.15232E-03  733365.5 4058652.6    59.5     3.40     4.00
3.16     NO                     NO
 L0000876         0   0.15232E-03  733365.3 4058661.2    59.5     3.40     4.00
3.16     NO                     NO
 L0000877         0   0.15232E-03  733365.2 4058669.8    59.5     3.40     4.00
3.16     NO                     NO
 L0000878         0   0.15232E-03  733365.1 4058678.4    59.5     3.40     4.00
3.16     NO                     NO
 L0000879         0   0.15232E-03  733365.0 4058687.0    59.5     3.40     4.00
3.16     NO                     NO
 L0000880         0   0.15232E-03  733364.9 4058695.6    59.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000881         0   0.15232E-03  733364.8 4058704.2    59.5     3.40     4.00
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3.16     NO                    NO
 L0000882         0   0.15232E-03  733364.7 4058712.8    59.4     3.40     4.00
3.16     NO                    NO
 L0000883         0   0.15232E-03  733364.6 4058721.4    59.4     3.40     4.00
3.16     NO                    NO
 L0000884         0   0.15232E-03  733364.5 4058730.0    59.4     3.40     4.00
3.16     NO                    NO
 L0000885         0   0.15232E-03  733364.4 4058738.6    59.4     3.40     4.00
3.16     NO                    NO
 L0000886         0   0.15232E-03  733364.3 4058747.2    59.4     3.40     4.00
3.16     NO                    NO
 L0000887         0   0.15232E-03  733364.2 4058755.8    59.4     3.40     4.00
3.16     NO                    NO
 L0000888         0   0.15232E-03  733364.1 4058764.4    59.4     3.40     4.00
3.16     NO                    NO
 L0000889         0   0.15232E-03  733364.0 4058773.0    59.4     3.40     4.00
3.16     NO                    NO
 L0000890         0   0.15232E-03  733363.9 4058781.6    59.4     3.40     4.00
3.16     NO                    NO
 L0000891         0   0.15232E-03  733363.8 4058790.2    59.4     3.40     4.00
3.16     NO                    NO
 L0000892         0   0.15232E-03  733363.7 4058798.8    59.3     3.40     4.00
3.16     NO                    NO
 L0000893         0   0.15232E-03  733363.5 4058807.4    59.3     3.40     4.00
3.16     NO                    NO
 L0000894         0   0.15232E-03  733363.4 4058816.0    59.3     3.40     4.00
3.16     NO                    NO
 L0000895         0   0.15232E-03  733363.3 4058824.6    59.3     3.40     4.00
3.16     NO                    NO
 L0000896         0   0.15232E-03  733363.2 4058833.2    59.3     3.40     4.00
3.16     NO                    NO
 L0000897         0   0.15232E-03  733363.1 4058841.8    59.3     3.40     4.00
3.16     NO                    NO
 L0000898         0   0.15232E-03  733363.0 4058850.4    59.3     3.40     4.00
3.16     NO                    NO
 L0000899         0   0.15232E-03  733362.9 4058859.0    59.3     3.40     4.00
3.16     NO                    NO
 L0000900         0   0.15232E-03  733362.8 4058867.6    59.3     3.40     4.00
3.16     NO                    NO
 L0000901         0   0.15232E-03  733362.7 4058876.2    59.3     3.40     4.00
3.16     NO                    NO
 L0000902         0   0.15232E-03  733362.6 4058884.8    59.3     3.40     4.00
3.16     NO                    NO
 L0000903         0   0.15232E-03  733362.5 4058893.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000904         0   0.15232E-03  733362.4 4058902.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000905         0   0.15232E-03  733362.3 4058910.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000906         0   0.15232E-03  733362.2 4058919.2    59.2     3.40     4.00
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3.16 NO NO
L0000907 0 0.15232E-03 733362.1 4058927.8 59.2 3.40 4.00
3.16 NO NO
L0000908 0 0.15232E-03 733362.0 4058936.4 59.2 3.40 4.00
3.16 NO NO
L0000909 0 0.15232E-03 733361.9 4058945.0 59.2 3.40 4.00
3.16 NO NO
L0000910 0 0.15232E-03 733361.7 4058953.6 59.2 3.40 4.00
3.16 NO NO
L0000911 0 0.15232E-03 733361.6 4058962.2 59.2 3.40 4.00
3.16 NO NO
L0000912 0 0.15232E-03 733361.5 4058970.8 59.2 3.40 4.00
3.16 NO NO
L0000913 0 0.15232E-03 733361.4 4058979.4 59.2 3.40 4.00
3.16 NO NO
L0000914 0 0.15232E-03 733361.3 4058988.0 59.2 3.40 4.00
3.16 NO NO
L0000915 0 0.15232E-03 733361.2 4058996.6 59.2 3.40 4.00
3.16 NO NO
L0000916 0 0.15232E-03 733361.1 4059005.2 59.2 3.40 4.00
3.16 NO NO
L0000917 0 0.15232E-03 733361.0 4059013.8 59.2 3.40 4.00
3.16 NO NO
L0000918 0 0.15232E-03 733360.9 4059022.4 59.2 3.40 4.00
3.16 NO NO
L0000919 0 0.15232E-03 733360.8 4059031.0 59.2 3.40 4.00
3.16 NO NO
L0000920 0 0.15232E-03 733360.7 4059039.6 59.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000921	0	0.15232E-03	733360.6	4059048.2	59.2	3.40	4.00			

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3.16     NO                    NO
 L0000922         0   0.15232E-03  733360.5 4059056.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000923         0   0.15232E-03  733360.4 4059065.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000924         0   0.15232E-03  733360.3 4059074.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000925         0   0.15232E-03  733360.2 4059082.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000926         0   0.15232E-03  733360.1 4059091.2    59.2     3.40     4.00
3.16     NO                    NO
 L0000927         0   0.15232E-03  733359.9 4059099.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000928         0   0.15232E-03  733359.8 4059108.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000929         0   0.15232E-03  733359.7 4059117.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000930         0   0.15232E-03  733359.6 4059125.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000931         0   0.15232E-03  733359.5 4059134.2    59.2     3.40     4.00
3.16     NO                    NO
 L0000932         0   0.15232E-03  733359.4 4059142.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000933         0   0.15232E-03  733359.3 4059151.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000934         0   0.15232E-03  733359.2 4059160.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000935         0   0.15232E-03  733359.1 4059168.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000936         0   0.15232E-03  733359.0 4059177.2    59.2     3.40     4.00
3.16     NO                    NO
 L0000937         0   0.15232E-03  733358.9 4059185.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000938         0   0.15232E-03  733358.8 4059194.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000939         0   0.15232E-03  733358.7 4059203.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000940         0   0.15232E-03  733358.6 4059211.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000941         0   0.15232E-03  733358.5 4059220.2    59.2     3.40     4.00
3.16     NO                    NO
 L0000942         0   0.15232E-03  733358.4 4059228.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000943         0   0.15232E-03  733358.2 4059237.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000944         0   0.15232E-03  733358.1 4059246.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000945         0   0.15232E-03  733358.0 4059254.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000946         0   0.15232E-03  733357.9 4059263.2    59.2     3.40     4.00
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3.16   NO   NO
 L0000947   0   0.15232E-03 733357.8 4059271.8   59.2   3.40   4.00
3.16   NO   NO
 L0000948   0   0.15232E-03 733357.7 4059280.4   59.1   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0000952   0   0.15232E-03 733357.3 4059314.8   59.1   3.40   4.00
3.16   NO   NO
 L0000953   0   0.15232E-03 733357.2 4059323.4   59.1   3.40   4.00
3.16   NO   NO
 L0000954   0   0.15232E-03 733357.1 4059332.0   59.1   3.40   4.00
3.16   NO   NO
 L0000955   0   0.15232E-03 733357.0 4059340.6   59.1   3.40   4.00
3.16   NO   NO
 L0000956   0   0.15232E-03 733356.9 4059349.2   59.1   3.40   4.00
3.16   NO   NO
 L0000957   0   0.15232E-03 733356.8 4059357.8   59.1   3.40   4.00
3.16   NO   NO
 L0000958   0   0.15232E-03 733356.7 4059366.4   59.1   3.40   4.00
3.16   NO   NO
 L0000959   0   0.15232E-03 733356.6 4059375.0   59.1   3.40   4.00
3.16   NO   NO
 L0000960   0   0.15232E-03 733356.4 4059383.6   59.1   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0000961   0   0.15232E-03 733356.3 4059392.2   59.1   3.40   4.00

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3.16     NO                    NO
 L0000962         0   0.15232E-03  733356.2 4059400.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000963         0   0.15232E-03  733356.1 4059409.4    59.1     3.40     4.00
3.16     NO                    NO
 L0000964         0   0.15232E-03  733356.0 4059418.0    59.1     3.40     4.00
3.16     NO                    NO
 L0000965         0   0.15232E-03  733355.9 4059426.6    59.1     3.40     4.00
3.16     NO                    NO
 L0000966         0   0.15232E-03  733355.8 4059435.2    59.1     3.40     4.00
3.16     NO                    NO
 L0000967         0   0.15232E-03  733355.7 4059443.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000968         0   0.15232E-03  733355.6 4059452.4    59.1     3.40     4.00
3.16     NO                    NO
 L0000969         0   0.15232E-03  733355.5 4059461.0    59.1     3.40     4.00
3.16     NO                    NO
 L0000970         0   0.15232E-03  733355.4 4059469.6    59.1     3.40     4.00
3.16     NO                    NO
 L0000971         0   0.15232E-03  733355.3 4059478.2    59.1     3.40     4.00
3.16     NO                    NO
 L0000972         0   0.15232E-03  733355.2 4059486.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000973         0   0.15232E-03  733355.1 4059495.4    59.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000975         0   0.15232E-03  733354.9 4059512.6    59.1     3.40     4.00
3.16     NO                    NO
 L0000976         0   0.15232E-03  733354.8 4059521.2    59.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000979         0   0.15232E-03  733354.4 4059547.0    59.1     3.40     4.00
3.16     NO                    NO
 L0000980         0   0.15232E-03  733354.3 4059555.6    59.1     3.40     4.00
3.16     NO                    NO
 L0000981         0   0.15232E-03  733354.2 4059564.2    59.1     3.40     4.00
3.16     NO                    NO
 L0000982         0   0.15232E-03  733354.1 4059572.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000983         0   0.15232E-03  733354.0 4059581.4    59.1     3.40     4.00
3.16     NO                    NO
 L0000984         0   0.15232E-03  733353.9 4059590.0    59.1     3.40     4.00
3.16     NO                    NO
 L0000985         0   0.15232E-03  733353.8 4059598.6    59.1     3.40     4.00
3.16     NO                    NO
 L0000986         0   0.15232E-03  733353.7 4059607.2    59.1     3.40     4.00
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3.16     NO                     NO
 L0000987         0   0.15232E-03  733353.6 4059615.8    59.1     3.40     4.00
3.16     NO                     NO
 L0000988         0   0.15232E-03  733353.5 4059624.4    59.1     3.40     4.00
3.16     NO                     NO
 L0000989         0   0.15232E-03  733353.4 4059633.0    59.1     3.40     4.00
3.16     NO                     NO
 L0000990         0   0.15232E-03  733353.3 4059641.6    59.1     3.40     4.00
3.16     NO                     NO
 L0000991         0   0.15232E-03  733353.2 4059650.2    59.1     3.40     4.00
3.16     NO                     NO
 L0000992         0   0.15232E-03  733353.1 4059658.8    59.1     3.40     4.00
3.16     NO                     NO
 L0000993         0   0.15232E-03  733353.0 4059667.4    59.1     3.40     4.00
3.16     NO                     NO
 L0000994         0   0.15232E-03  733352.8 4059676.0    59.1     3.40     4.00
3.16     NO                     NO
 L0000995         0   0.15232E-03  733352.7 4059684.6    59.1     3.40     4.00
3.16     NO                     NO
 L0000996         0   0.15232E-03  733352.6 4059693.2    59.1     3.40     4.00
3.16     NO                     NO
 L0000997         0   0.15232E-03  733352.5 4059701.8    59.1     3.40     4.00
3.16     NO                     NO
 L0000998         0   0.15232E-03  733352.4 4059710.4    59.1     3.40     4.00
3.16     NO                     NO
 L0000999         0   0.15232E-03  733352.3 4059719.0    59.1     3.40     4.00
3.16     NO                     NO
 L0001000         0   0.15232E-03  733352.2 4059727.6    59.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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- - - - - - - - - - - - - - - - - - - -

 L0001001         0   0.15232E-03  733352.1 4059736.2    59.1     3.40     4.00
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3.16     NO                    NO
 L0001002         0   0.15232E-03  733352.0 4059744.8    59.1     3.40     4.00
3.16     NO                    NO
 L0001003         0   0.15232E-03  733351.9 4059753.4    59.1     3.40     4.00
3.16     NO                    NO
 L0001004         0   0.15232E-03  733351.8 4059762.0    59.1     3.40     4.00
3.16     NO                    NO
 L0001005         0   0.15232E-03  733351.7 4059770.6    59.1     3.40     4.00
3.16     NO                    NO
 L0001006         0   0.15232E-03  733351.6 4059779.2    59.1     3.40     4.00
3.16     NO                    NO
 L0001007         0   0.15232E-03  733351.5 4059787.8    59.1     3.40     4.00
3.16     NO                    NO
 L0001008         0   0.15232E-03  733351.4 4059796.4    59.1     3.40     4.00
3.16     NO                    NO
 L0001009         0   0.15232E-03  733351.3 4059805.0    59.1     3.40     4.00
3.16     NO                    NO
 L0001010         0   0.15232E-03  733351.2 4059813.6    59.1     3.40     4.00
3.16     NO                    NO
 L0001011         0   0.15232E-03  733351.0 4059822.2    59.1     3.40     4.00
3.16     NO                    NO
 L0001012         0   0.15232E-03  733350.9 4059830.8    59.1     3.40     4.00
3.16     NO                    NO
 L0001013         0   0.15232E-03  733350.8 4059839.4    59.1     3.40     4.00
3.16     NO                    NO
 L0001014         0   0.15232E-03  733350.7 4059848.0    59.1     3.40     4.00
3.16     NO                    NO
 L0001015         0   0.15232E-03  733350.6 4059856.6    59.1     3.40     4.00
3.16     NO                    NO
 L0001016         0   0.15232E-03  733350.5 4059865.2    59.1     3.40     4.00
3.16     NO                    NO
 L0001017         0   0.15232E-03  733350.4 4059873.8    59.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0001020         0   0.15232E-03  733350.1 4059899.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001021         0   0.15232E-03  733350.0 4059908.1    59.1     3.40     4.00
3.16     NO                    NO
 L0001022         0   0.15232E-03  733349.9 4059916.7    59.1     3.40     4.00
3.16     NO                    NO
 L0001023         0   0.15232E-03  733349.8 4059925.3    59.1     3.40     4.00
3.16     NO                    NO
 L0001024         0   0.15232E-03  733349.7 4059933.9    59.1     3.40     4.00
3.16     NO                    NO
 L0001025         0   0.15232E-03  733349.6 4059942.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001026         0   0.15232E-03  733349.5 4059951.1    59.1     3.40     4.00
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3.16     NO                     NO
 L0001027         0   0.15232E-03  733349.4 4059959.7    59.1     3.40     4.00
3.16     NO                     NO
 L0001028         0   0.15232E-03  733349.2 4059968.3    59.1     3.40     4.00
3.16     NO                     NO
 L0001029         0   0.15232E-03  733349.1 4059976.9    59.1     3.40     4.00
3.16     NO                     NO
 L0001030         0   0.15232E-03  733349.0 4059985.5    59.1     3.40     4.00
3.16     NO                     NO
 L0001031         0   0.15232E-03  733348.9 4059994.1    59.1     3.40     4.00
3.16     NO                     NO
 L0001032         0   0.15232E-03  733348.8 4060002.7    59.1     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0001034         0   0.15232E-03  733348.6 4060019.9    59.1     3.40     4.00
3.16     NO                     NO
 L0001035         0   0.15232E-03  733348.5 4060028.5    59.1     3.40     4.00
3.16     NO                     NO
 L0001036         0   0.15232E-03  733348.4 4060037.1    59.1     3.40     4.00
3.16     NO                     NO
 L0001037         0   0.15232E-03  733348.3 4060045.7    59.1     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0001039         0   0.15232E-03  733348.1 4060062.9    59.1     3.40     4.00
3.16     NO                     NO
 L0001040         0   0.15232E-03  733348.0 4060071.5    59.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0001041         0   0.15232E-03  733347.9 4060080.1    59.1     3.40     4.00
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3.16 NO NO
L0001042 0 0.15232E-03 733347.8 4060088.7 59.1 3.40 4.00
3.16 NO NO
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3.16 NO NO
L0001044 0 0.15232E-03 733347.6 4060105.9 59.1 3.40 4.00
3.16 NO NO
L0001045 0 0.15232E-03 733347.4 4060114.5 59.1 3.40 4.00
3.16 NO NO
L0001046 0 0.15232E-03 733347.3 4060123.1 59.1 3.40 4.00
3.16 NO NO
L0001047 0 0.15232E-03 733347.2 4060131.7 59.1 3.40 4.00
3.16 NO NO
L0001048 0 0.15232E-03 733347.1 4060140.3 59.1 3.40 4.00
3.16 NO NO
L0001049 0 0.15232E-03 733347.0 4060148.9 59.1 3.40 4.00
3.16 NO NO
L0001050 0 0.15232E-03 733346.9 4060157.5 59.1 3.40 4.00
3.16 NO NO
L0001051 0 0.15232E-03 733346.8 4060166.1 59.1 3.40 4.00
3.16 NO NO
L0001052 0 0.15232E-03 733346.7 4060174.7 59.1 3.40 4.00
3.16 NO NO
L0001053 0 0.15232E-03 733346.6 4060183.3 59.1 3.40 4.00
3.16 NO NO
L0001054 0 0.15232E-03 733346.5 4060191.9 59.1 3.40 4.00
3.16 NO NO
L0001055 0 0.15232E-03 733346.4 4060200.5 59.1 3.40 4.00
3.16 NO NO
L0001056 0 0.15232E-03 733346.3 4060209.1 59.1 3.40 4.00
3.16 NO NO
L0001057 0 0.15232E-03 733346.2 4060217.7 59.1 3.40 4.00
3.16 NO NO
L0001058 0 0.15232E-03 733346.1 4060226.3 59.1 3.40 4.00
3.16 NO NO
L0001059 0 0.15232E-03 733346.0 4060234.9 59.1 3.40 4.00
3.16 NO NO
L0001060 0 0.15232E-03 733345.9 4060243.5 59.1 3.40 4.00
3.16 NO NO
L0001061 0 0.15232E-03 733345.8 4060252.1 59.2 3.40 4.00
3.16 NO NO
L0001062 0 0.15232E-03 733345.6 4060260.7 59.2 3.40 4.00
3.16 NO NO
L0001063 0 0.15232E-03 733345.5 4060269.3 59.2 3.40 4.00
3.16 NO NO
L0001064 0 0.15232E-03 733345.4 4060277.9 59.1 3.40 4.00
3.16 NO NO
L0001065 0 0.15232E-03 733345.3 4060286.5 59.1 3.40 4.00
3.16 NO NO
L0001066 0 0.15232E-03 733345.2 4060295.1 59.1 3.40 4.00

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3.16     NO                     NO
 L0001067         0   0.15232E-03  733345.1 4060303.7    59.1     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0001076         0   0.15232E-03  733344.2 4060381.1    59.1     3.40     4.00
3.16     NO                     NO
 L0001077         0   0.15232E-03  733336.8 4060382.1    59.2     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0001081         0   0.15232E-03  733302.4 4060380.9    59.2     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0001085         0   0.15232E-03  733268.0 4060379.7    59.3     3.40     4.00
3.16     NO                    NO
 L0001086         0   0.15232E-03  733259.4 4060379.4    59.3     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0001088         0   0.15232E-03  733242.3 4060378.8    59.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0001090         0   0.15232E-03  733225.1 4060378.3    59.4     3.40     4.00
3.16     NO                    NO
 L0001091         0   0.15232E-03  733216.5 4060378.0    59.5     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0001093         0   0.15232E-03  733199.3 4060377.4    59.5     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0001097         0   0.15232E-03  733164.9 4060376.2    59.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0001099         0   0.15232E-03  733147.7 4060375.6    59.6     3.40     4.00
3.16     NO                    NO
 L0001100         0   0.15232E-03  733139.1 4060375.3    59.6     3.40     4.00
3.16     NO                    NO
 L0001101         0   0.15232E-03  733130.5 4060375.0    59.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16 NO NO
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3.16 NO NO
L0001108 0 0.15232E-03 733070.4 4060372.9 59.8 3.40 4.00
3.16 NO NO
L0001109 0 0.15232E-03 733061.8 4060372.6 59.8 3.40 4.00
3.16 NO NO
L0001110 0 0.15232E-03 733053.2 4060372.3 59.8 3.40 4.00
3.16 NO NO
L0001111 0 0.15232E-03 733044.6 4060372.0 59.8 3.40 4.00
3.16 NO NO
L0001112 0 0.15232E-03 733036.0 4060371.7 59.9 3.40 4.00
3.16 NO NO
L0001113 0 0.15232E-03 733027.4 4060371.4 59.9 3.40 4.00
3.16 NO NO
L0001114 0 0.15232E-03 733018.8 4060371.1 59.9 3.40 4.00
3.16 NO NO
L0001115 0 0.15232E-03 733010.2 4060370.8 59.9 3.40 4.00
3.16 NO NO
L0001116 0 0.15232E-03 733001.6 4060370.5 59.9 3.40 4.00
3.16 NO NO
L0001117 0 0.15232E-03 732993.0 4060370.3 60.0 3.40 4.00
3.16 NO NO
L0001118 0 0.15232E-03 732984.4 4060370.0 60.0 3.40 4.00
3.16 NO NO
L0001119 0 0.15232E-03 732975.8 4060369.7 60.0 3.40 4.00
3.16 NO NO
L0001120 0 0.15232E-03 732967.2 4060369.4 60.0 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0001121	0	0.15232E-03	732958.6	4060369.1	60.0	3.40	4.00				

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3.16     NO                    NO
 L0001122         0   0.15232E-03  732950.0 4060368.8    60.0     3.40     4.00
3.16     NO                    NO
 L0001123         0   0.15232E-03  732941.4 4060368.5    60.1     3.40     4.00
3.16     NO                    NO
 L0001124         0   0.15232E-03  732932.8 4060368.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001125         0   0.15232E-03  732924.2 4060367.9    60.1     3.40     4.00
3.16     NO                    NO
 L0001126         0   0.15232E-03  732915.7 4060367.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001127         0   0.15232E-03  732907.1 4060367.3    60.1     3.40     4.00
3.16     NO                    NO
 L0001128         0   0.15232E-03  732898.5 4060367.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001129         0   0.15232E-03  732889.9 4060366.7    60.2     3.40     4.00
3.16     NO                    NO
 L0001130         0   0.15232E-03  732881.3 4060366.4    60.2     3.40     4.00
3.16     NO                    NO
 L0001131         0   0.15232E-03  732872.7 4060366.1    60.2     3.40     4.00
3.16     NO                    NO
 L0001132         0   0.15232E-03  732864.1 4060365.8    60.2     3.40     4.00
3.16     NO                    NO
 L0001133         0   0.15232E-03  732855.5 4060365.5    60.2     3.40     4.00
3.16     NO                    NO
 L0001134         0   0.15232E-03  732846.9 4060365.2    60.2     3.40     4.00
3.16     NO                    NO
 L0001135         0   0.15232E-03  732838.3 4060364.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001136         0   0.15232E-03  732829.7 4060364.6    60.3     3.40     4.00
3.16     NO                    NO
 L0001137         0   0.15232E-03  732821.1 4060364.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001138         0   0.15232E-03  732812.5 4060364.0    60.3     3.40     4.00
3.16     NO                    NO
 L0001139         0   0.15232E-03  732803.9 4060363.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001140         0   0.15232E-03  732795.3 4060363.4    60.4     3.40     4.00
3.16     NO                    NO
 L0001141         0   0.15232E-03  732786.7 4060363.1    60.4     3.40     4.00
3.16     NO                    NO
 L0001142         0   0.15232E-03  732778.1 4060362.8    60.4     3.40     4.00
3.16     NO                    NO
 L0001143         0   0.15232E-03  732769.5 4060362.5    60.5     3.40     4.00
3.16     NO                    NO
 L0001144         0   0.15232E-03  732760.9 4060362.2    60.5     3.40     4.00
3.16     NO                    NO
 L0001145         0   0.15232E-03  732752.3 4060362.0    60.5     3.40     4.00
3.16     NO                    NO
 L0001146         0   0.15232E-03  732743.8 4060361.7    60.6     3.40     4.00
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3.16     NO                     NO
 L0001147         0   0.15232E-03  732735.2 4060361.4    60.6     3.40     4.00
3.16     NO                     NO
 L0001148         0   0.15232E-03  732726.6 4060361.1    60.6     3.40     4.00
3.16     NO                     NO
 L0001149         0   0.15232E-03  732718.0 4060360.8    60.7     3.40     4.00
3.16     NO                     NO
 L0001150         0   0.15232E-03  732709.4 4060360.5    60.7     3.40     4.00
3.16     NO                     NO
 L0001151         0   0.15232E-03  732700.8 4060360.2    60.7     3.40     4.00
3.16     NO                     NO
 L0001152         0   0.15232E-03  732692.2 4060359.9    60.8     3.40     4.00
3.16     NO                     NO
 L0001153         0   0.15232E-03  732683.6 4060359.6    60.8     3.40     4.00
3.16     NO                     NO
 L0001154         0   0.15232E-03  732675.0 4060359.3    60.8     3.40     4.00
3.16     NO                     NO
 L0001155         0   0.15232E-03  732666.4 4060359.0    60.8     3.40     4.00
3.16     NO                     NO
 L0001156         0   0.15232E-03  732657.8 4060358.7    60.8     3.40     4.00
3.16     NO                     NO
 L0001157         0   0.15232E-03  732649.2 4060358.4    60.8     3.40     4.00
3.16     NO                     NO
 L0001158         0   0.15232E-03  732640.6 4060358.1    60.9     3.40     4.00
3.16     NO                     NO
 L0001159         0   0.15232E-03  732632.0 4060357.8    60.9     3.40     4.00
3.16     NO                     NO
 L0001160         0   0.15232E-03  732623.4 4060357.5    60.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001161         0   0.15232E-03  732614.8 4060357.2    61.0     3.40     4.00
```

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3.16     NO                    NO
 L0001162         0   0.15232E-03  732606.2 4060356.9    61.0     3.40     4.00
3.16     NO                    NO
 L0001163         0   0.15232E-03  732597.6 4060356.6    61.1     3.40     4.00
3.16     NO                    NO
 L0001164         0   0.15232E-03  732589.0 4060356.3    61.1     3.40     4.00
3.16     NO                    NO
 L0001165         0   0.15232E-03  732580.4 4060356.0    61.1     3.40     4.00
3.16     NO                    NO
 L0001166         0   0.15232E-03  732571.9 4060355.7    61.2     3.40     4.00
3.16     NO                    NO
 L0001167         0   0.15232E-03  732563.3 4060355.4    61.2     3.40     4.00
3.16     NO                    NO
 L0001168         0   0.15232E-03  732554.7 4060355.1    61.2     3.40     4.00
3.16     NO                    NO
 L0001169         0   0.15232E-03  732546.1 4060354.8    61.2     3.40     4.00
3.16     NO                    NO
 L0001170         0   0.15232E-03  732537.5 4060354.5    61.3     3.40     4.00
3.16     NO                    NO
 L0001171         0   0.15232E-03  732528.9 4060354.2    61.3     3.40     4.00
3.16     NO                    NO
 L0001172         0   0.15232E-03  732520.3 4060353.9    61.3     3.40     4.00
3.16     NO                    NO
 L0001173         0   0.15232E-03  732511.7 4060353.7    61.3     3.40     4.00
3.16     NO                    NO
 L0001174         0   0.15232E-03  732503.1 4060353.4    61.3     3.40     4.00
3.16     NO                    NO
 L0001175         0   0.15232E-03  732494.5 4060353.1    61.4     3.40     4.00
3.16     NO                    NO
 L0001176         0   0.15232E-03  732485.9 4060352.8    61.4     3.40     4.00
3.16     NO                    NO
 L0001177         0   0.15232E-03  732477.3 4060352.5    61.4     3.40     4.00
3.16     NO                    NO
 L0001178         0   0.15232E-03  732468.7 4060352.2    61.5     3.40     4.00
3.16     NO                    NO
 L0001179         0   0.15232E-03  732460.1 4060351.9    61.5     3.40     4.00
3.16     NO                    NO
 L0001180         0   0.15232E-03  732451.5 4060351.6    61.5     3.40     4.00
3.16     NO                    NO
 L0001181         0   0.15232E-03  732442.9 4060351.3    61.5     3.40     4.00
3.16     NO                    NO
 L0001182         0   0.15232E-03  732434.3 4060351.0    61.6     3.40     4.00
3.16     NO                    NO
 L0001183         0   0.15232E-03  732425.7 4060350.7    61.6     3.40     4.00
3.16     NO                    NO
 L0001184         0   0.15232E-03  732417.1 4060350.4    61.6     3.40     4.00
3.16     NO                    NO
 L0001185         0   0.15232E-03  732408.6 4060350.1    61.6     3.40     4.00
3.16     NO                    NO
 L0001186         0   0.15232E-03  732400.0 4060349.8    61.6     3.40     4.00
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3.16   NO   NO
 L0001187   0   0.15232E-03 732391.4 4060349.5   61.7   3.40   4.00
3.16   NO   NO
 L0001188   0   0.15232E-03 732382.8 4060349.2   61.7   3.40   4.00
3.16   NO   NO
 L0001189   0   0.15232E-03 732374.2 4060348.9   61.8   3.40   4.00
3.16   NO   NO
 L0001190   0   0.15232E-03 732365.6 4060348.6   61.8   3.40   4.00
3.16   NO   NO
 L0001191   0   0.15232E-03 732357.0 4060348.3   61.8   3.40   4.00
3.16   NO   NO
 L0001192   0   0.15232E-03 732348.4 4060348.0   61.9   3.40   4.00
3.16   NO   NO
 L0001193   0   0.15232E-03 732339.8 4060347.7   61.9   3.40   4.00
3.16   NO   NO
 L0001194   0   0.15232E-03 732331.2 4060347.4   61.9   3.40   4.00
3.16   NO   NO
 L0001195   0   0.15232E-03 732322.6 4060347.1   61.9   3.40   4.00
3.16   NO   NO
 L0001196   0   0.15232E-03 732314.0 4060346.8   62.0   3.40   4.00
3.16   NO   NO
 L0001197   0   0.15232E-03 732305.4 4060346.5   62.0   3.40   4.00
3.16   NO   NO
 L0001198   0   0.15232E-03 732296.8 4060346.2   62.0   3.40   4.00
3.16   NO   NO
 L0001199   0   0.15232E-03 732288.2 4060345.9   62.0   3.40   4.00
3.16   NO   NO
 L0001200   0   0.15232E-03 732279.6 4060345.7   62.0   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0001201   0   0.15232E-03 732271.0 4060345.4   62.1   3.40   4.00

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3.16     NO                    NO
 L0001202         0   0.15232E-03  732262.4 4060345.1    62.1     3.40     4.00
3.16     NO                    NO
 L0001203         0   0.15232E-03  732253.8 4060344.8    62.1     3.40     4.00
3.16     NO                    NO
 L0001204         0   0.15232E-03  732245.2 4060344.5    62.2     3.40     4.00
3.16     NO                    NO
 L0001205         0   0.15232E-03  732236.7 4060344.2    62.2     3.40     4.00
3.16     NO                    NO
 L0001206         0   0.15232E-03  732228.1 4060343.9    62.2     3.40     4.00
3.16     NO                    NO
 L0001207         0   0.15232E-03  732219.5 4060343.6    62.3     3.40     4.00
3.16     NO                    NO
 L0001208         0   0.15232E-03  732210.9 4060343.3    62.3     3.40     4.00
3.16     NO                    NO
 L0001209         0   0.15232E-03  732202.3 4060343.0    62.3     3.40     4.00
3.16     NO                    NO
 L0001210         0   0.15232E-03  732193.7 4060342.7    62.4     3.40     4.00
3.16     NO                    NO
 L0001211         0   0.15232E-03  732185.1 4060342.4    62.4     3.40     4.00
3.16     NO                    NO
 L0001212         0   0.15232E-03  732176.5 4060342.1    62.4     3.40     4.00
3.16     NO                    NO
 L0001213         0   0.15232E-03  732167.9 4060341.8    62.5     3.40     4.00
3.16     NO                    NO
 L0001214         0   0.15232E-03  732159.3 4060341.5    62.5     3.40     4.00
3.16     NO                    NO
 L0001215         0   0.15232E-03  732150.7 4060341.2    62.5     3.40     4.00
3.16     NO                    NO
 L0001216         0   0.15232E-03  732142.1 4060340.9    62.5     3.40     4.00
3.16     NO                    NO
 L0001217         0   0.15232E-03  732133.5 4060340.6    62.5     3.40     4.00
3.16     NO                    NO
 L0001218         0   0.15232E-03  732124.9 4060340.3    62.6     3.40     4.00
3.16     NO                    NO
 L0001219         0   0.15232E-03  732116.3 4060340.0    62.6     3.40     4.00
3.16     NO                    NO
 L0001220         0   0.15232E-03  732107.7 4060339.7    62.6     3.40     4.00
3.16     NO                    NO
 L0001221         0   0.15232E-03  732099.1 4060339.4    62.7     3.40     4.00
3.16     NO                    NO
 L0001222         0   0.15232E-03  732090.5 4060339.1    62.7     3.40     4.00
3.16     NO                    NO
 L0001223         0   0.15232E-03  732081.9 4060338.8    62.7     3.40     4.00
3.16     NO                    NO
 L0001224         0   0.15232E-03  732073.4 4060338.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001225         0   0.15232E-03  732064.8 4060338.2    62.8     3.40     4.00
3.16     NO                    NO
 L0001226         0   0.15232E-03  732056.2 4060337.9    62.8     3.40     4.00
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3.16     NO                     NO
 L0001227         0   0.15232E-03  732047.6 4060337.6    62.9     3.40     4.00
3.16     NO                     NO
 L0001228         0   0.15232E-03  732039.0 4060337.4    62.9     3.40     4.00
3.16     NO                     NO
 L0001229         0   0.15232E-03  732030.4 4060337.1    62.9     3.40     4.00
3.16     NO                     NO
 L0001230         0   0.15232E-03  732021.8 4060336.8    62.9     3.40     4.00
3.16     NO                     NO
 L0001231         0   0.15232E-03  732013.2 4060336.5    62.9     3.40     4.00
3.16     NO                     NO
 L0001232         0   0.15232E-03  732004.6 4060336.2    63.0     3.40     4.00
3.16     NO                     NO
 L0001233         0   0.15232E-03  731996.0 4060335.9    63.0     3.40     4.00
3.16     NO                     NO
 L0001234         0   0.15232E-03  731987.4 4060335.6    63.0     3.40     4.00
3.16     NO                     NO
 L0001235         0   0.15232E-03  731978.8 4060335.3    63.0     3.40     4.00
3.16     NO                     NO
 L0001236         0   0.15232E-03  731970.2 4060335.0    63.1     3.40     4.00
3.16     NO                     NO
 L0001237         0   0.15232E-03  731961.6 4060334.7    63.1     3.40     4.00
3.16     NO                     NO
 L0001238         0   0.15232E-03  731953.0 4060334.4    63.1     3.40     4.00
3.16     NO                     NO
 L0001239         0   0.15232E-03  731944.4 4060334.1    63.2     3.40     4.00
3.16     NO                     NO
 L0001240         0   0.15232E-03  731935.8 4060333.8    63.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001241         0   0.15232E-03  731927.2 4060333.5    63.2     3.40     4.00
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3.16     NO                    NO
 L0001242         0   0.15232E-03  731918.6 4060333.2    63.2     3.40     4.00
3.16     NO                    NO
 L0001243         0   0.15232E-03  731910.0 4060332.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001244         0   0.15232E-03  731901.5 4060332.6    63.3     3.40     4.00
3.16     NO                    NO
 L0001245         0   0.15232E-03  731892.9 4060332.3    63.3     3.40     4.00
3.16     NO                    NO
 L0001246         0   0.15232E-03  731884.3 4060332.0    63.3     3.40     4.00
3.16     NO                    NO
 L0001247         0   0.15232E-03  731875.7 4060331.7    63.3     3.40     4.00
3.16     NO                    NO
 L0001248         0   0.15232E-03  731867.1 4060331.4    63.3     3.40     4.00
3.16     NO                    NO
 L0001249         0   0.15232E-03  731858.5 4060331.1    63.3     3.40     4.00
3.16     NO                    NO
 L0001250         0   0.15232E-03  731849.9 4060330.8    63.3     3.40     4.00
3.16     NO                    NO
 L0001251         0   0.15232E-03  731841.3 4060330.5    63.4     3.40     4.00
3.16     NO                    NO
 L0001252         0   0.15232E-03  731832.7 4060330.2    63.4     3.40     4.00
3.16     NO                    NO
 L0001253         0   0.15232E-03  731824.1 4060329.9    63.5     3.40     4.00
3.16     NO                    NO
 L0001254         0   0.15232E-03  731815.5 4060329.6    63.5     3.40     4.00
3.16     NO                    NO
 L0001255         0   0.15232E-03  731806.9 4060329.4    63.6     3.40     4.00
3.16     NO                    NO
 L0001256         0   0.15232E-03  731798.3 4060329.1    63.6     3.40     4.00
3.16     NO                    NO
 L0001257         0   0.15232E-03  731789.7 4060328.8    63.6     3.40     4.00
3.16     NO                    NO
 L0001258         0   0.15232E-03  731781.1 4060328.5    63.7     3.40     4.00
3.16     NO                    NO
 L0001259         0   0.15232E-03  731772.5 4060328.2    63.8     3.40     4.00
3.16     NO                    NO
 L0001260         0   0.15232E-03  731763.9 4060327.9    63.8     3.40     4.00
3.16     NO                    NO
 L0001261         0   0.15232E-03  731755.3 4060327.6    63.8     3.40     4.00
3.16     NO                    NO
 L0001262         0   0.15232E-03  731746.7 4060327.3    63.9     3.40     4.00
3.16     NO                    NO
 L0001263         0   0.15232E-03  731738.1 4060327.0    63.9     3.40     4.00
3.16     NO                    NO
 L0001264         0   0.15232E-03  731729.6 4060326.7    63.9     3.40     4.00
3.16     NO                    NO
 L0001265         0   0.15232E-03  731721.0 4060326.4    64.0     3.40     4.00
3.16     NO                    NO
 L0001266         0   0.15232E-03  731712.4 4060326.1    64.0     3.40     4.00
```

3.16   NO   NO
 L0001267   0   0.15232E-03 731703.8 4060325.8   64.1   3.40   4.00
3.16   NO   NO
 L0001268   0   0.15232E-03 731695.2 4060325.5   64.1   3.40   4.00
3.16   NO   NO
 L0001269   0   0.15232E-03 731686.6 4060325.2   64.2   3.40   4.00
3.16   NO   NO
 L0001270   0   0.15232E-03 731678.0 4060324.9   64.2   3.40   4.00
3.16   NO   NO
 L0001271   0   0.15232E-03 731669.4 4060324.6   64.3   3.40   4.00
3.16   NO   NO
 L0001272   0   0.15232E-03 731660.8 4060324.3   64.3   3.40   4.00
3.16   NO   NO
 L0001273   0   0.15232E-03 731652.2 4060324.0   64.4   3.40   4.00
3.16   NO   NO
 L0001274   0   0.15232E-03 731643.6 4060323.7   64.4   3.40   4.00
3.16   NO   NO
 L0001275   0   0.15232E-03 731635.0 4060323.4   64.4   3.40   4.00
3.16   NO   NO
 L0001276   0   0.15232E-03 731626.4 4060323.1   64.5   3.40   4.00
3.16   NO   NO
 L0001277   0   0.15232E-03 731617.8 4060322.8   64.5   3.40   4.00
3.16   NO   NO
 L0001278   0   0.15232E-03 731609.2 4060322.5   64.5   3.40   4.00
3.16   NO   NO
 L0001279   0   0.15232E-03 731600.6 4060322.2   64.6   3.40   4.00
3.16   NO   NO
 L0001280   0   0.15232E-03 731592.0 4060321.9   64.6   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0001281   0   0.15232E-03 731583.4 4060321.6   64.7   3.40   4.00

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3.16     NO                    NO
 L0001282         0   0.15232E-03  731574.8 4060321.3    64.7     3.40     4.00
3.16     NO                    NO
 L0001283         0   0.15232E-03  731566.3 4060321.1    64.8     3.40     4.00
3.16     NO                    NO
 L0001284         0   0.15232E-03  731557.7 4060320.8    64.8     3.40     4.00
3.16     NO                    NO
 L0001285         0   0.15232E-03  731549.1 4060320.5    64.8     3.40     4.00
3.16     NO                    NO
 L0001286         0   0.15232E-03  731540.5 4060320.2    64.8     3.40     4.00
3.16     NO                    NO
 L0001287         0   0.15232E-03  731531.9 4060319.9    64.8     3.40     4.00
3.16     NO                    NO
 L0001288         0   0.15232E-03  731523.3 4060319.6    64.9     3.40     4.00
3.16     NO                    NO
 L0001289         0   0.15232E-03  731514.7 4060319.3    64.9     3.40     4.00
3.16     NO                    NO
 L0001290         0   0.15232E-03  731506.1 4060319.0    65.0     3.40     4.00
3.16     NO                    NO
 L0001291         0   0.15232E-03  731497.5 4060318.7    65.0     3.40     4.00
3.16     NO                    NO
 L0001292         0   0.15232E-03  731488.9 4060318.4    65.0     3.40     4.00
3.16     NO                    NO
 L0001293         0   0.15232E-03  731480.3 4060318.1    65.0     3.40     4.00
3.16     NO                    NO
 L0001294         0   0.15232E-03  731471.7 4060317.8    65.0     3.40     4.00
3.16     NO                    NO
 L0001295         0   0.15232E-03  731463.1 4060317.5    65.0     3.40     4.00
3.16     NO                    NO
 L0001296         0   0.15232E-03  731454.5 4060317.2    65.1     3.40     4.00
3.16     NO                    NO
 L0001297         0   0.15232E-03  731445.9 4060316.9    65.1     3.40     4.00
3.16     NO                    NO
 L0001298         0   0.15232E-03  731437.3 4060316.6    65.1     3.40     4.00
3.16     NO                    NO
 L0001299         0   0.15232E-03  731428.7 4060316.3    65.1     3.40     4.00
3.16     NO                    NO
 L0001300         0   0.15232E-03  731420.1 4060316.0    65.1     3.40     4.00
3.16     NO                    NO
 L0001301         0   0.15232E-03  731411.5 4060315.7    65.1     3.40     4.00
3.16     NO                    NO
 L0001302         0   0.15232E-03  731402.9 4060315.4    65.2     3.40     4.00
3.16     NO                    NO
 L0001303         0   0.15232E-03  731394.4 4060315.1    65.2     3.40     4.00
3.16     NO                    NO
 L0001304         0   0.15232E-03  731385.8 4060314.8    65.2     3.40     4.00
3.16     NO                    NO
 L0001305         0   0.15232E-03  731377.2 4060314.5    65.3     3.40     4.00
3.16     NO                    NO
 L0001306         0   0.15232E-03  731368.6 4060314.2    65.3     3.40     4.00
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3.16     NO                     NO
 L0001307         0   0.15232E-03  731360.0 4060313.9    65.3     3.40     4.00
3.16     NO                     NO
 L0001308         0   0.15232E-03  731351.4 4060313.6    65.4     3.40     4.00
3.16     NO                     NO
 L0001309         0   0.15232E-03  731342.8 4060313.3    65.4     3.40     4.00
3.16     NO                     NO
 L0001310         0   0.15232E-03  731334.2 4060313.0    65.4     3.40     4.00
3.16     NO                     NO
 L0001311         0   0.15232E-03  731334.1 4060304.8    65.4     3.40     4.00
3.16     NO                     NO
 L0001312         0   0.15232E-03  731334.3 4060296.2    65.4     3.40     4.00
3.16     NO                     NO
 L0001313         0   0.15232E-03  731334.5 4060287.6    65.5     3.40     4.00
3.16     NO                     NO
 L0001314         0   0.15232E-03  731334.8 4060279.0    65.5     3.40     4.00
3.16     NO                     NO
 L0001315         0   0.15232E-03  731335.0 4060270.4    65.5     3.40     4.00
3.16     NO                     NO
 L0001316         0   0.15232E-03  731335.2 4060261.8    65.5     3.40     4.00
3.16     NO                     NO
 L0001317         0   0.15232E-03  731335.5 4060253.2    65.5     3.40     4.00
3.16     NO                     NO
 L0001318         0   0.15232E-03  731335.7 4060244.6    65.5     3.40     4.00
3.16     NO                     NO
 L0001319         0   0.15232E-03  731335.9 4060236.0    65.5     3.40     4.00
3.16     NO                     NO
 L0001320         0   0.15232E-03  731336.2 4060227.4    65.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001321         0   0.15232E-03  731336.4 4060218.8    65.5     3.40     4.00
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3.16     NO                    NO
 L0001322         0   0.15232E-03  731336.6 4060210.2    65.5     3.40     4.00
3.16     NO                    NO
 L0001323         0   0.15232E-03  731336.9 4060201.6    65.5     3.40     4.00
3.16     NO                    NO
 L0001324         0   0.15232E-03  731337.1 4060193.0    65.5     3.40     4.00
3.16     NO                    NO
 L0001325         0   0.15232E-03  731337.3 4060184.4    65.5     3.40     4.00
3.16     NO                    NO
 L0001326         0   0.15232E-03  731337.6 4060175.8    65.5     3.40     4.00
3.16     NO                    NO
 L0001327         0   0.15232E-03  731337.8 4060167.2    65.5     3.40     4.00
3.16     NO                    NO
 L0001328         0   0.15232E-03  731338.0 4060158.6    65.5     3.40     4.00
3.16     NO                    NO
 L0001329         0   0.15232E-03  731338.3 4060150.0    65.5     3.40     4.00
3.16     NO                    NO
 L0001330         0   0.15232E-03  731338.5 4060141.4    65.5     3.40     4.00
3.16     NO                    NO
 L0001331         0   0.15232E-03  731338.7 4060132.8    65.4     3.40     4.00
3.16     NO                    NO
 L0001332         0   0.15232E-03  731339.0 4060124.3    65.4     3.40     4.00
3.16     NO                    NO
 L0001333         0   0.15232E-03  731339.2 4060115.7    65.4     3.40     4.00
3.16     NO                    NO
 L0001334         0   0.15232E-03  731339.4 4060107.1    65.4     3.40     4.00
3.16     NO                    NO
 L0001335         0   0.15232E-03  731339.7 4060098.5    65.4     3.40     4.00
3.16     NO                    NO
 L0001336         0   0.15232E-03  731339.9 4060089.9    65.4     3.40     4.00
3.16     NO                    NO
 L0001337         0   0.15232E-03  731340.2 4060081.3    65.3     3.40     4.00
3.16     NO                    NO
 L0001338         0   0.15232E-03  731340.4 4060072.7    65.3     3.40     4.00
3.16     NO                    NO
 L0001339         0   0.15232E-03  731340.6 4060064.1    65.3     3.40     4.00
3.16     NO                    NO
 L0001340         0   0.15232E-03  731340.9 4060055.5    65.3     3.40     4.00
3.16     NO                    NO
 L0001341         0   0.15232E-03  731341.1 4060046.9    65.3     3.40     4.00
3.16     NO                    NO
 L0001342         0   0.15232E-03  731341.3 4060038.3    65.3     3.40     4.00
3.16     NO                    NO
 L0001343         0   0.15232E-03  731341.6 4060029.7    65.3     3.40     4.00
3.16     NO                    NO
 L0001344         0   0.15232E-03  731341.8 4060021.1    65.3     3.40     4.00
3.16     NO                    NO
 L0001345         0   0.15232E-03  731342.0 4060012.5    65.2     3.40     4.00
3.16     NO                    NO
 L0001346         0   0.15232E-03  731342.3 4060003.9    65.2     3.40     4.00
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3.16   NO   NO
 L0001347   0   0.15232E-03 731342.5 4059995.3   65.2   3.40   4.00
3.16   NO   NO
 L0001348   0   0.15232E-03 731342.7 4059986.7   65.1   3.40   4.00
3.16   NO   NO
 L0001349   0   0.15232E-03 731343.0 4059978.1   65.1   3.40   4.00
3.16   NO   NO
 L0001350   0   0.15232E-03 731343.2 4059969.5   65.1   3.40   4.00
3.16   NO   NO
 L0001351   0   0.15232E-03 731343.4 4059960.9   65.1   3.40   4.00
3.16   NO   NO
 L0001352   0   0.15232E-03 731343.7 4059952.3   65.0   3.40   4.00
3.16   NO   NO
 L0001353   0   0.15232E-03 731343.9 4059943.7   65.0   3.40   4.00
3.16   NO   NO
 L0001354   0   0.15232E-03 731344.1 4059935.1   65.0   3.40   4.00
3.16   NO   NO
 L0001355   0   0.15232E-03 731344.4 4059926.5   65.0   3.40   4.00
3.16   NO   NO
 L0001356   0   0.15232E-03 731344.6 4059917.9   65.0   3.40   4.00
3.16   NO   NO
 L0001357   0   0.15232E-03 731344.8 4059909.3   64.9   3.40   4.00
3.16   NO   NO
 L0001358   0   0.15232E-03 731345.1 4059900.7   64.9   3.40   4.00
3.16   NO   NO
 L0001359   0   0.15232E-03 731345.3 4059892.1   64.9   3.40   4.00
3.16   NO   NO
 L0001360   0   0.15232E-03 731345.5 4059883.5   64.8   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0001361   0   0.15232E-03 731345.8 4059874.9   64.8   3.40   4.00

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3.16     NO                    NO
 L0001362         0   0.15232E-03  731346.0 4059866.3    64.8     3.40     4.00
3.16     NO                    NO
 L0001363         0   0.15232E-03  731346.2 4059857.8    64.8     3.40     4.00
3.16     NO                    NO
 L0001364         0   0.15232E-03  731346.5 4059849.2    64.8     3.40     4.00
3.16     NO                    NO
 L0001365         0   0.15232E-03  731346.7 4059840.6    64.8     3.40     4.00
3.16     NO                    NO
 L0001366         0   0.15232E-03  731346.9 4059832.0    64.8     3.40     4.00
3.16     NO                    NO
 L0001367         0   0.15232E-03  731347.2 4059823.4    64.7     3.40     4.00
3.16     NO                    NO
 L0001368         0   0.15232E-03  731347.4 4059814.8    64.7     3.40     4.00
3.16     NO                    NO
 L0001369         0   0.15232E-03  731347.6 4059806.2    64.7     3.40     4.00
3.16     NO                    NO
 L0001370         0   0.15232E-03  731347.9 4059797.6    64.7     3.40     4.00
3.16     NO                    NO
 L0001371         0   0.15232E-03  731348.1 4059789.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001372         0   0.15232E-03  731348.3 4059780.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001373         0   0.15232E-03  731348.6 4059771.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001374         0   0.15232E-03  731348.8 4059763.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001375         0   0.15232E-03  731349.0 4059754.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001376         0   0.15232E-03  731349.3 4059746.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001377         0   0.15232E-03  731349.5 4059737.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001378         0   0.15232E-03  731349.7 4059728.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001379         0   0.15232E-03  731350.0 4059720.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001380         0   0.15232E-03  731350.2 4059711.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001381         0   0.15232E-03  731350.4 4059703.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001382         0   0.15232E-03  731350.7 4059694.4    64.5     3.40     4.00
3.16     NO                    NO
 L0001383         0   0.15232E-03  731350.9 4059685.8    64.5     3.40     4.00
3.16     NO                    NO
 L0001384         0   0.15232E-03  731351.1 4059677.2    64.5     3.40     4.00
3.16     NO                    NO
 L0001385         0   0.15232E-03  731351.4 4059668.6    64.5     3.40     4.00
3.16     NO                    NO
 L0001386         0   0.15232E-03  731351.6 4059660.0    64.5     3.40     4.00
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3.16 NO NO
L0001387 0 0.15232E-03 731351.8 4059651.4 64.5 3.40 4.00
3.16 NO NO
L0001388 0 0.15232E-03 731352.1 4059642.8 64.5 3.40 4.00
3.16 NO NO
L0001389 0 0.15232E-03 731352.3 4059634.2 64.5 3.40 4.00
3.16 NO NO
L0001390 0 0.15232E-03 731352.5 4059625.6 64.5 3.40 4.00
3.16 NO NO
L0001391 0 0.15232E-03 731352.8 4059617.0 64.5 3.40 4.00
3.16 NO NO
L0001392 0 0.15232E-03 731353.0 4059608.4 64.5 3.40 4.00
3.16 NO NO
L0001393 0 0.15232E-03 731353.3 4059599.8 64.5 3.40 4.00
3.16 NO NO
L0001394 0 0.15232E-03 731353.5 4059591.3 64.5 3.40 4.00
3.16 NO NO
L0001395 0 0.15232E-03 731353.7 4059582.7 64.5 3.40 4.00
3.16 NO NO
L0001396 0 0.15232E-03 731354.0 4059574.1 64.5 3.40 4.00
3.16 NO NO
L0001397 0 0.15232E-03 731354.2 4059565.5 64.5 3.40 4.00
3.16 NO NO
L0001398 0 0.15232E-03 731354.4 4059556.9 64.5 3.40 4.00
3.16 NO NO
L0001399 0 0.15232E-03 731354.7 4059548.3 64.5 3.40 4.00
3.16 NO NO
L0001400 0 0.15232E-03 731354.9 4059539.7 64.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0001401	0	0.15232E-03	731355.1	4059531.1	64.5	3.40	4.00				

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3.16     NO                    NO
 L0001402         0   0.15232E-03  731355.4 4059522.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001403         0   0.15232E-03  731355.6 4059513.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001404         0   0.15232E-03  731355.8 4059505.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001405         0   0.15232E-03  731356.1 4059496.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001406         0   0.15232E-03  731356.3 4059488.1    64.5     3.40     4.00
3.16     NO                    NO
 L0001407         0   0.15232E-03  731356.5 4059479.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001408         0   0.15232E-03  731356.8 4059470.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001409         0   0.15232E-03  731357.0 4059462.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001410         0   0.15232E-03  731357.2 4059453.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001411         0   0.15232E-03  731357.5 4059445.1    64.5     3.40     4.00
3.16     NO                    NO
 L0001412         0   0.15232E-03  731357.7 4059436.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001413         0   0.15232E-03  731357.9 4059427.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001414         0   0.15232E-03  731358.2 4059419.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001415         0   0.15232E-03  731358.4 4059410.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001416         0   0.15232E-03  731358.6 4059402.1    64.5     3.40     4.00
3.16     NO                    NO
 L0001417         0   0.15232E-03  731358.9 4059393.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001418         0   0.15232E-03  731359.1 4059384.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001419         0   0.15232E-03  731359.3 4059376.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001420         0   0.15232E-03  731359.6 4059367.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001421         0   0.15232E-03  731359.8 4059359.1    64.5     3.40     4.00
3.16     NO                    NO
 L0001422         0   0.15232E-03  731360.0 4059350.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001423         0   0.15232E-03  731360.3 4059341.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001424         0   0.15232E-03  731360.5 4059333.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001425         0   0.15232E-03  731360.7 4059324.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001426         0   0.15232E-03  731361.0 4059316.2    64.5     3.40     4.00
```

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3.16     NO                     NO
 L0001427         0   0.15232E-03  731361.2 4059307.6    64.5     3.40     4.00
3.16     NO                     NO
 L0001428         0   0.15232E-03  731361.4 4059299.0    64.5     3.40     4.00
3.16     NO                     NO
 L0001429         0   0.15232E-03  731361.7 4059290.4    64.5     3.40     4.00
3.16     NO                     NO
 L0001430         0   0.15232E-03  731361.9 4059281.8    64.5     3.40     4.00
3.16     NO                     NO
 L0001431         0   0.15232E-03  731362.1 4059273.2    64.5     3.40     4.00
3.16     NO                     NO
 L0001432         0   0.15232E-03  731362.4 4059264.6    64.5     3.40     4.00
3.16     NO                     NO
 L0001433         0   0.15232E-03  731362.6 4059256.0    64.5     3.40     4.00
3.16     NO                     NO
 L0001434         0   0.15232E-03  731362.8 4059247.4    64.5     3.40     4.00
3.16     NO                     NO
 L0001435         0   0.15232E-03  731363.1 4059238.8    64.5     3.40     4.00
3.16     NO                     NO
 L0001436         0   0.15232E-03  731363.3 4059230.2    64.5     3.40     4.00
3.16     NO                     NO
 L0001437         0   0.15232E-03  731363.5 4059221.6    64.6     3.40     4.00
3.16     NO                     NO
 L0001438         0   0.15232E-03  731363.8 4059213.0    64.6     3.40     4.00
3.16     NO                     NO
 L0001439         0   0.15232E-03  731364.0 4059204.4    64.6     3.40     4.00
3.16     NO                     NO
 L0001440         0   0.15232E-03  731364.2 4059195.8    64.6     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001441         0   0.15232E-03  731364.5 4059187.2    64.6     3.40     4.00
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3.16     NO                    NO
 L0001442         0   0.15232E-03  731364.7 4059178.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001443         0   0.15232E-03  731364.9 4059170.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001444         0   0.15232E-03  731365.2 4059161.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001445         0   0.15232E-03  731365.4 4059152.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001446         0   0.15232E-03  731365.6 4059144.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001447         0   0.15232E-03  731365.9 4059135.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001448         0   0.15232E-03  731366.1 4059127.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001449         0   0.15232E-03  731366.4 4059118.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001450         0   0.15232E-03  731366.6 4059109.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001451         0   0.15232E-03  731366.8 4059101.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001452         0   0.15232E-03  731367.1 4059092.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001453         0   0.15232E-03  731367.3 4059084.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001454         0   0.15232E-03  731367.5 4059075.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001455         0   0.15232E-03  731367.8 4059066.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001456         0   0.15232E-03  731368.0 4059058.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001457         0   0.15232E-03  731368.2 4059049.7    64.6     3.40     4.00
3.16     NO                    NO
 L0001458         0   0.15232E-03  731368.5 4059041.1    64.6     3.40     4.00
3.16     NO                    NO
 L0001459         0   0.15232E-03  731375.3 4059039.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001460         0   0.15232E-03  731383.9 4059039.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001461         0   0.15232E-03  731392.5 4059039.8    64.5     3.40     4.00
3.16     NO                    NO
 L0001462         0   0.15232E-03  731401.1 4059040.0    64.5     3.40     4.00
3.16     NO                    NO
 L0001463         0   0.15232E-03  731409.7 4059040.2    64.5     3.40     4.00
3.16     NO                    NO
 L0001464         0   0.15232E-03  731418.3 4059040.4    64.5     3.40     4.00
3.16     NO                    NO
 L0001465         0   0.15232E-03  731426.9 4059040.6    64.4     3.40     4.00
3.16     NO                    NO
 L0001466         0   0.15232E-03  731435.5 4059040.8    64.4     3.40     4.00
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3.16 NO NO
L0001467 0 0.15232E-03 731444.1 4059040.9 64.4 3.40 4.00
3.16 NO NO
L0001468 0 0.15232E-03 731452.7 4059041.1 64.4 3.40 4.00
3.16 NO NO
L0001469 0 0.15232E-03 731461.3 4059041.3 64.4 3.40 4.00
3.16 NO NO
L0001470 0 0.15232E-03 731469.9 4059041.5 64.3 3.40 4.00
3.16 NO NO
L0001471 0 0.15232E-03 731478.5 4059041.7 64.3 3.40 4.00
3.16 NO NO
L0001472 0 0.15232E-03 731487.1 4059041.9 64.3 3.40 4.00
3.16 NO NO
L0001473 0 0.15232E-03 731495.7 4059042.1 64.2 3.40 4.00
3.16 NO NO
L0001474 0 0.15232E-03 731504.3 4059042.3 64.2 3.40 4.00
3.16 NO NO
L0001475 0 0.15232E-03 731512.9 4059042.5 64.2 3.40 4.00
3.16 NO NO
L0001476 0 0.15232E-03 731521.5 4059042.7 64.2 3.40 4.00
3.16 NO NO
L0001477 0 0.15232E-03 731530.1 4059042.9 64.2 3.40 4.00
3.16 NO NO
L0001478 0 0.15232E-03 731538.7 4059043.0 64.2 3.40 4.00
3.16 NO NO
L0001479 0 0.15232E-03 731547.3 4059043.2 64.1 3.40 4.00
3.16 NO NO
L0001480 0 0.15232E-03 731555.9 4059043.4 64.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0001481	0	0.15232E-03	731564.5	4059043.6	64.1	3.40	4.00			

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3.16     NO                    NO
 L0001482         0   0.15232E-03  731573.1 4059043.8    64.0     3.40     4.00
3.16     NO                    NO
 L0001483         0   0.15232E-03  731581.7 4059044.0    64.0     3.40     4.00
3.16     NO                    NO
 L0001484         0   0.15232E-03  731590.3 4059044.2    63.9     3.40     4.00
3.16     NO                    NO
 L0001485         0   0.15232E-03  731598.9 4059044.4    63.9     3.40     4.00
3.16     NO                    NO
 L0001486         0   0.15232E-03  731607.5 4059044.6    63.9     3.40     4.00
3.16     NO                    NO
 L0001487         0   0.15232E-03  731616.1 4059044.8    63.9     3.40     4.00
3.16     NO                    NO
 L0001488         0   0.15232E-03  731624.7 4059045.0    63.9     3.40     4.00
3.16     NO                    NO
 L0001489         0   0.15232E-03  731633.3 4059045.2    63.9     3.40     4.00
3.16     NO                    NO
 L0001490         0   0.15232E-03  731641.9 4059045.3    63.8     3.40     4.00
3.16     NO                    NO
 L0001491         0   0.15232E-03  731650.4 4059045.5    63.8     3.40     4.00
3.16     NO                    NO
 L0001492         0   0.15232E-03  731659.0 4059045.7    63.8     3.40     4.00
3.16     NO                    NO
 L0001493         0   0.15232E-03  731667.6 4059045.9    63.7     3.40     4.00
3.16     NO                    NO
 L0001494         0   0.15232E-03  731676.2 4059046.1    63.7     3.40     4.00
3.16     NO                    NO
 L0001495         0   0.15232E-03  731684.8 4059046.3    63.7     3.40     4.00
3.16     NO                    NO
 L0001496         0   0.15232E-03  731693.4 4059046.5    63.6     3.40     4.00
3.16     NO                    NO
 L0001497         0   0.15232E-03  731702.0 4059046.7    63.6     3.40     4.00
3.16     NO                    NO
 L0001498         0   0.15232E-03  731710.6 4059046.9    63.6     3.40     4.00
3.16     NO                    NO
 L0001499         0   0.15232E-03  731719.2 4059047.1    63.6     3.40     4.00
3.16     NO                    NO
 L0001500         0   0.15232E-03  731727.8 4059047.3    63.6     3.40     4.00
3.16     NO                    NO
 L0001501         0   0.15232E-03  731736.4 4059047.4    63.6     3.40     4.00
3.16     NO                    NO
 L0001502         0   0.15232E-03  731745.0 4059047.6    63.5     3.40     4.00
3.16     NO                    NO
 L0001503         0   0.15232E-03  731753.6 4059047.8    63.5     3.40     4.00
3.16     NO                    NO
 L0001504         0   0.15232E-03  731762.2 4059048.0    63.5     3.40     4.00
3.16     NO                    NO
 L0001505         0   0.15232E-03  731770.8 4059048.2    63.4     3.40     4.00
3.16     NO                    NO
 L0001506         0   0.15232E-03  731779.4 4059048.4    63.4     3.40     4.00
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3.16 NO NO
L0001507 0 0.15232E-03 731788.0 4059048.6 63.4 3.40 4.00
3.16 NO NO
L0001508 0 0.15232E-03 731796.6 4059048.8 63.3 3.40 4.00
3.16 NO NO
L0001509 0 0.15232E-03 731805.2 4059049.0 63.3 3.40 4.00
3.16 NO NO
L0001510 0 0.15232E-03 731813.8 4059049.2 63.3 3.40 4.00
3.16 NO NO
L0001511 0 0.15232E-03 731822.4 4059049.4 63.3 3.40 4.00
3.16 NO NO
L0001512 0 0.15232E-03 731831.0 4059049.5 63.3 3.40 4.00
3.16 NO NO
L0001513 0 0.15232E-03 731839.6 4059049.7 63.2 3.40 4.00
3.16 NO NO
L0001514 0 0.15232E-03 731848.2 4059049.9 63.2 3.40 4.00
3.16 NO NO
L0001515 0 0.15232E-03 731856.8 4059050.1 63.2 3.40 4.00
3.16 NO NO
L0001516 0 0.15232E-03 731865.4 4059050.3 63.2 3.40 4.00
3.16 NO NO
L0001517 0 0.15232E-03 731874.0 4059050.5 63.2 3.40 4.00
3.16 NO NO
L0001518 0 0.15232E-03 731882.6 4059050.7 63.1 3.40 4.00
3.16 NO NO
L0001519 0 0.15232E-03 731891.2 4059050.9 63.1 3.40 4.00
3.16 NO NO
L0001520 0 0.15232E-03 731899.8 4059051.1 63.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0001521	0	0.15232E-03	731908.4	4059051.3	63.1	3.40	4.00			

```
3.16     NO                    NO
 L0001522         0   0.15232E-03  731917.0 4059051.5    63.0     3.40     4.00
3.16     NO                    NO
 L0001523         0   0.15232E-03  731925.6 4059051.6    63.0     3.40     4.00
3.16     NO                    NO
 L0001524         0   0.15232E-03  731934.2 4059051.8    63.0     3.40     4.00
3.16     NO                    NO
 L0001525         0   0.15232E-03  731942.8 4059052.0    63.0     3.40     4.00
3.16     NO                    NO
 L0001526         0   0.15232E-03  731951.4 4059052.2    62.9     3.40     4.00
3.16     NO                    NO
 L0001527         0   0.15232E-03  731960.0 4059052.4    62.9     3.40     4.00
3.16     NO                    NO
 L0001528         0   0.15232E-03  731968.6 4059052.6    62.9     3.40     4.00
3.16     NO                    NO
 L0001529         0   0.15232E-03  731977.2 4059052.8    62.9     3.40     4.00
3.16     NO                    NO
 L0001530         0   0.15232E-03  731985.8 4059053.0    62.9     3.40     4.00
3.16     NO                    NO
 L0001531         0   0.15232E-03  731994.4 4059053.2    62.8     3.40     4.00
3.16     NO                    NO
 L0001532         0   0.15232E-03  732003.0 4059053.4    62.8     3.40     4.00
3.16     NO                    NO
 L0001533         0   0.15232E-03  732011.6 4059053.6    62.8     3.40     4.00
3.16     NO                    NO
 L0001534         0   0.15232E-03  732020.2 4059053.7    62.8     3.40     4.00
3.16     NO                    NO
 L0001535         0   0.15232E-03  732028.8 4059053.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001536         0   0.15232E-03  732037.4 4059054.1    62.7     3.40     4.00
3.16     NO                    NO
 L0001537         0   0.15232E-03  732046.0 4059054.3    62.7     3.40     4.00
3.16     NO                    NO
 L0001538         0   0.15232E-03  732054.5 4059054.5    62.7     3.40     4.00
3.16     NO                    NO
 L0001539         0   0.15232E-03  732063.1 4059054.7    62.6     3.40     4.00
3.16     NO                    NO
 L0001540         0   0.15232E-03  732071.7 4059054.9    62.6     3.40     4.00
3.16     NO                    NO
 L0001541         0   0.15232E-03  732080.3 4059055.1    62.6     3.40     4.00
3.16     NO                    NO
 L0001542         0   0.15232E-03  732088.9 4059055.3    62.6     3.40     4.00
3.16     NO                    NO
 L0001543         0   0.15232E-03  732097.5 4059055.5    62.5     3.40     4.00
3.16     NO                    NO
 L0001544         0   0.15232E-03  732106.1 4059055.7    62.5     3.40     4.00
3.16     NO                    NO
 L0001545         0   0.15232E-03  732114.7 4059055.9    62.5     3.40     4.00
3.16     NO                    NO
 L0001546         0   0.15232E-03  732123.3 4059056.0    62.5     3.40     4.00
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3.16   NO   NO
 L0001547   0   0.15232E-03 732131.9 4059056.2   62.5   3.40   4.00
3.16   NO   NO
 L0001548   0   0.15232E-03 732140.5 4059056.4   62.4   3.40   4.00
3.16   NO   NO
 L0001549   0   0.15232E-03 732148.4 4059055.8   62.4   3.40   4.00
3.16   NO   NO
 L0001550   0   0.15232E-03 732148.5 4059047.2   62.4   3.40   4.00
3.16   NO   NO
 L0001551   0   0.15232E-03 732148.6 4059038.6   62.4   3.40   4.00
3.16   NO   NO
 L0001552   0   0.15232E-03 732148.7 4059030.0   62.4   3.40   4.00
3.16   NO   NO
 L0001553   0   0.15232E-03 732148.7 4059021.4   62.4   3.40   4.00
3.16   NO   NO
 L0001554   0   0.15232E-03 732148.8 4059012.8   62.4   3.40   4.00
3.16   NO   NO
 L0001555   0   0.15232E-03 732148.9 4059004.2   62.5   3.40   4.00
3.16   NO   NO
 L0001556   0   0.15232E-03 732149.0 4058995.6   62.5   3.40   4.00
3.16   NO   NO
 L0001557   0   0.15232E-03 732149.1 4058987.0   62.5   3.40   4.00
3.16   NO   NO
 L0001558   0   0.15232E-03 732149.2 4058978.4   62.5   3.40   4.00
3.16   NO   NO
 L0001559   0   0.15232E-03 732149.3 4058969.8   62.5   3.40   4.00
3.16   NO   NO
 L0001560   0   0.15232E-03 732149.4 4058961.2   62.5   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0001561   0   0.15232E-03 732149.5 4058952.6   62.5   3.40   4.00

3.16 NO NO
L0001562 0 0.15232E-03 732149.6 4058944.0 62.5 3.40 4.00
3.16 NO NO
L0001563 0 0.15232E-03 732149.7 4058935.4 62.5 3.40 4.00
3.16 NO NO
L0001564 0 0.15232E-03 732149.8 4058926.8 62.5 3.40 4.00
3.16 NO NO
L0001565 0 0.15232E-03 732149.9 4058918.2 62.5 3.40 4.00
3.16 NO NO
L0001566 0 0.15232E-03 732150.0 4058909.6 62.5 3.40 4.00
3.16 NO NO
L0001567 0 0.15232E-03 732150.1 4058901.0 62.5 3.40 4.00
3.16 NO NO
L0001568 0 0.15232E-03 732150.2 4058892.4 62.5 3.40 4.00
3.16 NO NO
L0001569 0 0.15232E-03 732150.3 4058883.8 62.5 3.40 4.00
3.16 NO NO
L0001570 0 0.15232E-03 732150.3 4058875.2 62.5 3.40 4.00
3.16 NO NO
L0001571 0 0.15232E-03 732150.4 4058866.6 62.6 3.40 4.00
3.16 NO NO
L0001572 0 0.15232E-03 732150.5 4058858.0 62.6 3.40 4.00
3.16 NO NO
L0001573 0 0.15232E-03 732150.6 4058849.4 62.6 3.40 4.00
3.16 NO NO
L0001574 0 0.15232E-03 732150.7 4058840.8 62.6 3.40 4.00
3.16 NO NO
L0001575 0 0.15232E-03 732150.8 4058832.2 62.6 3.40 4.00
3.16 NO NO
L0001576 0 0.15232E-03 732150.9 4058823.7 62.6 3.40 4.00
3.16 NO NO
L0001577 0 0.15232E-03 732151.0 4058815.1 62.6 3.40 4.00
3.16 NO NO
L0001578 0 0.15232E-03 732151.1 4058806.5 62.6 3.40 4.00
3.16 NO NO
L0001579 0 0.15232E-03 732151.2 4058797.9 62.6 3.40 4.00
3.16 NO NO
L0001580 0 0.15232E-03 732151.3 4058789.3 62.6 3.40 4.00
3.16 NO NO
L0001581 0 0.15232E-03 732151.4 4058780.7 62.6 3.40 4.00
3.16 NO NO
L0001582 0 0.15232E-03 732151.5 4058772.1 62.6 3.40 4.00
3.16 NO NO
L0001583 0 0.15232E-03 732151.6 4058763.5 62.6 3.40 4.00
3.16 NO NO
L0001584 0 0.15232E-03 732151.7 4058754.9 62.6 3.40 4.00
3.16 NO NO
L0001585 0 0.15232E-03 732151.8 4058746.3 62.6 3.40 4.00
3.16 NO NO
L0001586 0 0.15232E-03 732151.9 4058737.7 62.6 3.40 4.00

3.16   NO   NO
 L0001587   0   0.15232E-03 732151.9 4058729.1   62.6   3.40   4.00
3.16   NO   NO
 L0001588   0   0.15232E-03 732152.0 4058720.5   62.6   3.40   4.00
3.16   NO   NO
 L0001589   0   0.15232E-03 732152.1 4058711.9   62.6   3.40   4.00
3.16   NO   NO
 L0001590   0   0.15232E-03 732152.2 4058703.3   62.6   3.40   4.00
3.16   NO   NO
 L0001591   0   0.15232E-03 732152.3 4058694.7   62.6   3.40   4.00
3.16   NO   NO
 L0001592   0   0.15232E-03 732152.4 4058686.1   62.7   3.40   4.00
3.16   NO   NO
 L0001593   0   0.15232E-03 732152.5 4058677.5   62.7   3.40   4.00
3.16   NO   NO
 L0001594   0   0.15232E-03 732152.6 4058668.9   62.7   3.40   4.00
3.16   NO   NO
 L0001595   0   0.15232E-03 732152.7 4058660.3   62.7   3.40   4.00
3.16   NO   NO
 L0001596   0   0.15232E-03 732152.8 4058651.7   62.7   3.40   4.00
3.16   NO   NO
 L0001597   0   0.15232E-03 732152.9 4058643.1   62.7   3.40   4.00
3.16   NO   NO
 L0001598   0   0.15232E-03 732153.0 4058634.5   62.7   3.40   4.00
3.16   NO   NO
 L0001599   0   0.15232E-03 732153.1 4058625.9   62.7   3.40   4.00
3.16   NO   NO
 L0001600   0   0.15232E-03 732153.2 4058617.3   62.7   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0001601   0   0.15232E-03 732153.3 4058608.7   62.7   3.40   4.00

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3.16     NO                    NO
 L0001602         0   0.15232E-03  732153.4 4058600.1    62.7     3.40     4.00
3.16     NO                    NO
 L0001603         0   0.15232E-03  732153.4 4058591.5    62.7     3.40     4.00
3.16     NO                    NO
 L0001604         0   0.15232E-03  732153.5 4058582.9    62.7     3.40     4.00
3.16     NO                    NO
 L0001605         0   0.15232E-03  732153.6 4058574.3    62.7     3.40     4.00
3.16     NO                    NO
 L0001606         0   0.15232E-03  732153.7 4058565.7    62.7     3.40     4.00
3.16     NO                    NO
 L0001607         0   0.15232E-03  732153.8 4058557.1    62.7     3.40     4.00
3.16     NO                    NO
 L0001608         0   0.15232E-03  732153.9 4058548.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001609         0   0.15232E-03  732154.0 4058539.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001610         0   0.15232E-03  732154.1 4058531.3    62.8     3.40     4.00
3.16     NO                    NO
 L0001611         0   0.15232E-03  732154.2 4058522.7    62.8     3.40     4.00
3.16     NO                    NO
 L0001612         0   0.15232E-03  732154.3 4058514.1    62.8     3.40     4.00
3.16     NO                    NO
 L0001613         0   0.15232E-03  732154.4 4058505.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001614         0   0.15232E-03  732154.5 4058496.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001615         0   0.15232E-03  732154.6 4058488.3    62.8     3.40     4.00
3.16     NO                    NO
 L0001616         0   0.15232E-03  732154.7 4058479.7    62.8     3.40     4.00
3.16     NO                    NO
 L0001617         0   0.15232E-03  732154.8 4058471.1    62.8     3.40     4.00
3.16     NO                    NO
 L0001618         0   0.15232E-03  732154.9 4058462.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001619         0   0.15232E-03  732155.0 4058453.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001620         0   0.15232E-03  732155.0 4058445.3    62.8     3.40     4.00
3.16     NO                    NO
 L0001621         0   0.15232E-03  732155.1 4058436.7    62.8     3.40     4.00
3.16     NO                    NO
 L0001622         0   0.15232E-03  732155.2 4058428.1    62.8     3.40     4.00
3.16     NO                    NO
 L0001623         0   0.15232E-03  732155.3 4058419.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001624         0   0.15232E-03  732155.4 4058410.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001625         0   0.15232E-03  732155.5 4058402.3    62.8     3.40     4.00
3.16     NO                    NO
 L0001626         0   0.15232E-03  732155.6 4058393.7    62.8     3.40     4.00
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3.16     NO                     NO
 L0001627         0   0.15232E-03  732155.7 4058385.1    62.8     3.40     4.00
3.16     NO                     NO
 L0001628         0   0.15232E-03  732155.8 4058376.5    62.9     3.40     4.00
3.16     NO                     NO
 L0001629         0   0.15232E-03  732155.9 4058367.9    62.9     3.40     4.00
3.16     NO                     NO
 L0001630         0   0.15232E-03  732156.0 4058359.3    62.9     3.40     4.00
3.16     NO                     NO
 L0001631         0   0.15232E-03  732156.1 4058350.7    62.9     3.40     4.00
3.16     NO                     NO
 L0001632         0   0.15232E-03  732156.2 4058342.1    62.9     3.40     4.00
3.16     NO                     NO
 L0001633         0   0.15232E-03  732156.3 4058333.5    62.9     3.40     4.00
3.16     NO                     NO
 L0001634         0   0.15232E-03  732156.4 4058324.9    62.9     3.40     4.00
3.16     NO                     NO
 L0001635         0   0.15232E-03  732156.5 4058316.3    62.9     3.40     4.00
3.16     NO                     NO
 L0001636         0   0.15232E-03  732156.5 4058307.7    62.9     3.40     4.00
3.16     NO                     NO
 L0001637         0   0.15232E-03  732156.6 4058299.1    62.9     3.40     4.00
3.16     NO                     NO
 L0001638         0   0.15232E-03  732156.7 4058290.5    62.9     3.40     4.00
3.16     NO                     NO
 L0001639         0   0.15232E-03  732156.8 4058281.9    62.9     3.40     4.00
3.16     NO                     NO
 L0001640         0   0.15232E-03  732156.9 4058273.3    63.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0001641         0   0.15232E-03  732157.0 4058264.7    63.0     3.40     4.00
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3.16     NO                    NO
 L0001642         0   0.15232E-03  732157.1 4058256.1    63.0     3.40     4.00
3.16     NO                    NO
 L0001643         0   0.15232E-03  732157.2 4058247.5    63.0     3.40     4.00
3.16     NO                    NO
 L0001644         0   0.15232E-03  732157.3 4058238.9    63.0     3.40     4.00
3.16     NO                    NO
 L0001645         0   0.15232E-03  732157.4 4058230.3    63.0     3.40     4.00
3.16     NO                    NO
 L0001646         0   0.15232E-03  732157.5 4058221.7    63.0     3.40     4.00
3.16     NO                    NO
 L0001647         0   0.15232E-03  732157.6 4058213.1    63.0     3.40     4.00
3.16     NO                    NO
 L0001648         0   0.15232E-03  732157.7 4058204.5    63.0     3.40     4.00
3.16     NO                    NO
 L0001649         0   0.15232E-03  732157.8 4058195.9    63.0     3.40     4.00
3.16     NO                    NO
 L0001650         0   0.15232E-03  732157.9 4058187.3    63.0     3.40     4.00
3.16     NO                    NO
 L0001651         0   0.15232E-03  732158.0 4058178.7    63.0     3.40     4.00
3.16     NO                    NO
 L0001652         0   0.15232E-03  732158.1 4058170.1    63.0     3.40     4.00
3.16     NO                    NO
 L0001653         0   0.15232E-03  732158.1 4058161.5    63.0     3.40     4.00
3.16     NO                    NO
 L0001654         0   0.15232E-03  732158.2 4058152.9    63.1     3.40     4.00
3.16     NO                    NO
 L0001655         0   0.15232E-03  732158.3 4058144.3    63.1     3.40     4.00
3.16     NO                    NO
 L0001656         0   0.15232E-03  732158.4 4058135.7    63.1     3.40     4.00
3.16     NO                    NO
 L0001657         0   0.15232E-03  732158.5 4058127.1    63.1     3.40     4.00
3.16     NO                    NO
 L0001658         0   0.15232E-03  732158.6 4058118.5    63.1     3.40     4.00
3.16     NO                    NO
 L0001659         0   0.15232E-03  732158.7 4058109.9    63.1     3.40     4.00
3.16     NO                    NO
 L0001660         0   0.15232E-03  732158.8 4058101.3    63.1     3.40     4.00
3.16     NO                    NO
 L0001661         0   0.15232E-03  732158.9 4058092.7    63.1     3.40     4.00
3.16     NO                    NO
 L0001662         0   0.15232E-03  732159.0 4058084.1    63.1     3.40     4.00
3.16     NO                    NO
 L0001663         0   0.15232E-03  732159.1 4058075.5    63.1     3.40     4.00
3.16     NO                    NO
 L0001664         0   0.15232E-03  732159.2 4058066.9    63.1     3.40     4.00
3.16     NO                    NO
 L0001665         0   0.15232E-03  732159.3 4058058.3    63.1     3.40     4.00
3.16     NO                    NO
 L0001666         0   0.15232E-03  732159.4 4058049.7    63.1     3.40     4.00
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3.16     NO                     NO
 L0001667         0   0.15232E-03  732159.5 4058041.1    63.1     3.40     4.00
3.16     NO                     NO
 L0001668         0   0.15232E-03  732159.6 4058032.5    63.1     3.40     4.00
3.16     NO                     NO
 L0001669         0   0.15232E-03  732159.7 4058023.9    63.1     3.40     4.00
3.16     NO                     NO
 L0001670         0   0.15232E-03  732159.7 4058015.3    63.1     3.40     4.00
3.16     NO                     NO
 L0001671         0   0.15232E-03  732159.8 4058006.7    63.1     3.40     4.00
3.16     NO                     NO
 L0001672         0   0.15232E-03  732159.9 4057998.1    63.1     3.40     4.00
3.16     NO                     NO
 L0001673         0   0.15232E-03  732160.0 4057989.5    63.1     3.40     4.00
3.16     NO                     NO
 L0001674         0   0.15232E-03  732160.1 4057980.9    63.1     3.40     4.00
3.16     NO                     NO
 L0001675         0   0.15232E-03  732160.2 4057972.3    63.2     3.40     4.00
3.16     NO                     NO
 L0001676         0   0.15232E-03  732160.3 4057963.7    63.2     3.40     4.00
3.16     NO                     NO
 L0001677         0   0.15232E-03  732160.4 4057955.1    63.2     3.40     4.00
3.16     NO                     NO
 L0001678         0   0.15232E-03  732160.5 4057946.5    63.2     3.40     4.00
3.16     NO                     NO
 L0001679         0   0.15232E-03  732160.6 4057937.9    63.2     3.40     4.00
3.16     NO                     NO
 L0001680         0   0.15232E-03  732160.7 4057929.3    63.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0001681         0   0.15232E-03  732160.8 4057920.7    63.2     3.40     4.00
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3.16     NO                    NO
 L0001682         0   0.15232E-03  732160.9 4057912.1    63.2     3.40     4.00
3.16     NO                    NO
 L0001683         0   0.15232E-03  732161.0 4057903.5    63.2     3.40     4.00
3.16     NO                    NO
 L0001684         0   0.15232E-03  732161.1 4057894.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001685         0   0.15232E-03  732161.2 4057886.3    63.2     3.40     4.00
3.16     NO                    NO
 L0001686         0   0.15232E-03  732161.2 4057877.7    63.2     3.40     4.00
3.16     NO                    NO
 L0001687         0   0.15232E-03  732161.3 4057869.1    63.2     3.40     4.00
3.16     NO                    NO
 L0001688         0   0.15232E-03  732161.4 4057860.5    63.2     3.40     4.00
3.16     NO                    NO
 L0001689         0   0.15232E-03  732161.5 4057851.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001690         0   0.15232E-03  732161.6 4057843.3    63.2     3.40     4.00
3.16     NO                    NO
 L0001691         0   0.15232E-03  732161.7 4057834.7    63.2     3.40     4.00
3.16     NO                    NO
 L0001692         0   0.15232E-03  732161.8 4057826.1    63.2     3.40     4.00
3.16     NO                    NO
 L0001693         0   0.15232E-03  732161.9 4057817.5    63.2     3.40     4.00
3.16     NO                    NO
 L0001694         0   0.15232E-03  732162.0 4057808.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001695         0   0.15232E-03  732162.1 4057800.3    63.2     3.40     4.00
3.16     NO                    NO
 L0001696         0   0.15232E-03  732162.2 4057791.7    63.2     3.40     4.00
3.16     NO                    NO
 L0001697         0   0.15232E-03  732162.3 4057783.1    63.2     3.40     4.00
3.16     NO                    NO
 L0001698         0   0.15232E-03  732162.4 4057774.5    63.2     3.40     4.00
3.16     NO                    NO
 L0001699         0   0.15232E-03  732162.5 4057765.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001700         0   0.15232E-03  732162.6 4057757.3    63.3     3.40     4.00
3.16     NO                    NO
 L0001701         0   0.15232E-03  732162.7 4057748.7    63.3     3.40     4.00
3.16     NO                    NO
 L0001702         0   0.15232E-03  732162.8 4057740.1    63.3     3.40     4.00
3.16     NO                    NO
 L0001703         0   0.15232E-03  732162.8 4057731.5    63.3     3.40     4.00
3.16     NO                    NO
 L0001704         0   0.15232E-03  732162.9 4057722.9    63.3     3.40     4.00
3.16     NO                    NO
 L0001705         0   0.15232E-03  732163.0 4057714.3    63.3     3.40     4.00
3.16     NO                    NO
 L0001706         0   0.15232E-03  732163.1 4057705.7    63.3     3.40     4.00
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3.16 NO NO
L0001707 0 0.15232E-03 732163.2 4057697.1 63.3 3.40 4.00
3.16 NO NO
L0001708 0 0.15232E-03 732163.3 4057688.5 63.3 3.40 4.00
3.16 NO NO
L0001709 0 0.15232E-03 732163.4 4057679.9 63.3 3.40 4.00
3.16 NO NO
L0001710 0 0.15232E-03 732163.5 4057671.3 63.3 3.40 4.00
3.16 NO NO
L0001711 0 0.15232E-03 732163.6 4057662.7 63.3 3.40 4.00
3.16 NO NO
L0001712 0 0.15232E-03 732163.7 4057654.1 63.3 3.40 4.00
3.16 NO NO
L0001713 0 0.15232E-03 732163.8 4057645.5 63.3 3.40 4.00
3.16 NO NO
L0001714 0 0.15232E-03 732163.9 4057636.9 63.3 3.40 4.00
3.16 NO NO
L0001715 0 0.15232E-03 732164.0 4057628.3 63.3 3.40 4.00
3.16 NO NO
L0001716 0 0.15232E-03 732164.1 4057619.7 63.3 3.40 4.00
3.16 NO NO
L0001717 0 0.15232E-03 732164.2 4057611.1 63.3 3.40 4.00
3.16 NO NO
L0001718 0 0.15232E-03 732164.3 4057602.5 63.4 3.40 4.00
3.16 NO NO
L0001719 0 0.15232E-03 732164.4 4057593.9 63.4 3.40 4.00
3.16 NO NO
L0001720 0 0.15232E-03 732164.4 4057585.3 63.4 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0001721	0	0.15232E-03	732164.5	4057576.7	63.4	3.40	4.00				

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3.16     NO                    NO
 L0001722         0   0.15232E-03  732164.6 4057568.1    63.4     3.40     4.00
3.16     NO                    NO
 L0001723         0   0.15232E-03  732164.7 4057559.5    63.4     3.40     4.00
3.16     NO                    NO
 L0001724         0   0.15232E-03  732164.8 4057550.9    63.4     3.40     4.00
3.16     NO                    NO
 L0001725         0   0.15232E-03  732164.9 4057542.3    63.4     3.40     4.00
3.16     NO                    NO
 L0001726         0   0.15232E-03  732165.0 4057533.7    63.4     3.40     4.00
3.16     NO                    NO
 L0001727         0   0.15232E-03  732165.1 4057525.1    63.4     3.40     4.00
3.16     NO                    NO
 L0001728         0   0.15232E-03  732165.2 4057516.5    63.4     3.40     4.00
3.16     NO                    NO
 L0001729         0   0.15232E-03  732165.3 4057507.9    63.4     3.40     4.00
3.16     NO                    NO
 L0001730         0   0.15232E-03  732165.4 4057499.3    63.4     3.40     4.00
3.16     NO                    NO
 L0001731         0   0.15232E-03  732165.5 4057490.7    63.4     3.40     4.00
3.16     NO                    NO
 L0001732         0   0.15232E-03  732165.6 4057482.1    63.4     3.40     4.00
3.16     NO                    NO
 L0001733         0   0.15232E-03  732165.7 4057473.5    63.4     3.40     4.00
3.16     NO                    NO
 L0001734         0   0.15232E-03  732171.6 4057471.2    63.4     3.40     4.00
3.16     NO                    NO
 L0001735         0   0.15232E-03  732180.2 4057471.6    63.4     3.40     4.00
3.16     NO                    NO
 L0001736         0   0.15232E-03  732188.8 4057472.0    63.4     3.40     4.00
3.16     NO                    NO
 L0001737         0   0.15232E-03  732197.4 4057472.4    63.4     3.40     4.00
3.16     NO                    NO
 L0001738         0   0.15232E-03  732206.0 4057472.9    63.4     3.40     4.00
3.16     NO                    NO
 L0001739         0   0.15232E-03  732214.6 4057473.3    63.4     3.40     4.00
3.16     NO                    NO
 L0001740         0   0.15232E-03  732223.2 4057473.7    63.4     3.40     4.00
3.16     NO                    NO
 L0001741         0   0.15232E-03  732231.8 4057474.1    63.3     3.40     4.00
3.16     NO                    NO
 L0001742         0   0.15232E-03  732240.4 4057474.6    63.3     3.40     4.00
3.16     NO                    NO
 L0001743         0   0.15232E-03  732248.9 4057475.0    63.3     3.40     4.00
3.16     NO                    NO
 L0001744         0   0.15232E-03  732257.5 4057475.4    63.3     3.40     4.00
3.16     NO                    NO
 L0001745         0   0.15232E-03  732266.1 4057475.8    63.3     3.40     4.00
3.16     NO                    NO
 L0001746         0   0.15232E-03  732274.7 4057476.2    63.3     3.40     4.00
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3.16     NO                     NO
 L0001747         0   0.15232E-03  732283.3 4057476.7    63.2     3.40     4.00
3.16     NO                     NO
 L0001748         0   0.15232E-03  732291.9 4057477.1    63.2     3.40     4.00
3.16     NO                     NO
 L0001749         0   0.15232E-03  732300.5 4057477.5    63.2     3.40     4.00
3.16     NO                     NO
 L0001750         0   0.15232E-03  732309.1 4057477.9    63.2     3.40     4.00
3.16     NO                     NO
 L0001751         0   0.15232E-03  732317.7 4057478.4    63.2     3.40     4.00
3.16     NO                     NO
 L0001752         0   0.15232E-03  732326.3 4057478.8    63.2     3.40     4.00
3.16     NO                     NO
 L0001753         0   0.15232E-03  732334.8 4057479.2    63.1     3.40     4.00
3.16     NO                     NO
 L0001754         0   0.15232E-03  732343.4 4057479.6    63.1     3.40     4.00
3.16     NO                     NO
 L0001755         0   0.15232E-03  732352.0 4057480.0    63.1     3.40     4.00
3.16     NO                     NO
 L0001756         0   0.15232E-03  732360.6 4057480.5    63.1     3.40     4.00
3.16     NO                     NO
 L0001757         0   0.15232E-03  732369.2 4057480.9    63.1     3.40     4.00
3.16     NO                     NO
 L0001758         0   0.15232E-03  732377.8 4057481.3    63.0     3.40     4.00
3.16     NO                     NO
 L0001759         0   0.15232E-03  732386.4 4057481.7    63.0     3.40     4.00
3.16     NO                     NO
 L0001760         0   0.15232E-03  732395.0 4057482.2    63.0     3.40     4.00
3.16     NO                     NO
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0001761	0	0.15232E-03	732403.6	4057482.6	62.9	3.40	4.00			

```
3.16     NO                    NO
 L0001762         0   0.15232E-03  732412.1 4057483.0    62.9     3.40     4.00
3.16     NO                    NO
 L0001763         0   0.15232E-03  732420.7 4057483.4    62.9     3.40     4.00
3.16     NO                    NO
 L0001764         0   0.15232E-03  732429.3 4057483.8    62.9     3.40     4.00
3.16     NO                    NO
 L0001765         0   0.15232E-03  732437.9 4057484.3    62.9     3.40     4.00
3.16     NO                    NO
 L0001766         0   0.15232E-03  732446.5 4057484.7    62.9     3.40     4.00
3.16     NO                    NO
 L0001767         0   0.15232E-03  732455.1 4057485.1    62.8     3.40     4.00
3.16     NO                    NO
 L0001768         0   0.15232E-03  732463.7 4057485.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001769         0   0.15232E-03  732472.3 4057486.0    62.8     3.40     4.00
3.16     NO                    NO
 L0001770         0   0.15232E-03  732480.9 4057486.4    62.7     3.40     4.00
3.16     NO                    NO
 L0001771         0   0.15232E-03  732489.5 4057486.8    62.7     3.40     4.00
3.16     NO                    NO
 L0001772         0   0.15232E-03  732498.0 4057487.2    62.7     3.40     4.00
3.16     NO                    NO
 L0001773         0   0.15232E-03  732506.6 4057487.7    62.7     3.40     4.00
3.16     NO                    NO
 L0001774         0   0.15232E-03  732515.2 4057488.1    62.6     3.40     4.00
3.16     NO                    NO
 L0001775         0   0.15232E-03  732523.8 4057488.5    62.6     3.40     4.00
3.16     NO                    NO
 L0001776         0   0.15232E-03  732532.4 4057488.9    62.6     3.40     4.00
3.16     NO                    NO
 L0001777         0   0.15232E-03  732541.0 4057489.3    62.6     3.40     4.00
3.16     NO                    NO
 L0001778         0   0.15232E-03  732549.6 4057489.8    62.6     3.40     4.00
3.16     NO                    NO
 L0001779         0   0.15232E-03  732558.2 4057490.2    62.5     3.40     4.00
3.16     NO                    NO
 L0001780         0   0.15232E-03  732566.8 4057490.6    62.5     3.40     4.00
3.16     NO                    NO
 L0001781         0   0.15232E-03  732575.4 4057491.0    62.5     3.40     4.00
3.16     NO                    NO
 L0001782         0   0.15232E-03  732583.9 4057491.5    62.4     3.40     4.00
3.16     NO                    NO
 L0001783         0   0.15232E-03  732592.5 4057491.9    62.4     3.40     4.00
3.16     NO                    NO
 L0001784         0   0.15232E-03  732601.1 4057492.3    62.4     3.40     4.00
3.16     NO                    NO
 L0001785         0   0.15232E-03  732609.7 4057492.7    62.4     3.40     4.00
3.16     NO                    NO
 L0001786         0   0.15232E-03  732618.3 4057493.1    62.4     3.40     4.00
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3.16     NO                     NO
 L0001787         0   0.15232E-03  732626.9 4057493.6    62.3     3.40     4.00
3.16     NO                     NO
 L0001788         0   0.15232E-03  732635.5 4057494.0    62.3     3.40     4.00
3.16     NO                     NO
 L0001789         0   0.15232E-03  732644.1 4057494.4    62.3     3.40     4.00
3.16     NO                     NO
 L0001790         0   0.15232E-03  732652.7 4057494.8    62.3     3.40     4.00
3.16     NO                     NO
 L0001791         0   0.15232E-03  732661.2 4057495.3    62.2     3.40     4.00
3.16     NO                     NO
 L0001792         0   0.15232E-03  732669.8 4057495.7    62.2     3.40     4.00
3.16     NO                     NO
 L0001793         0   0.15232E-03  732678.4 4057496.1    62.2     3.40     4.00
3.16     NO                     NO
 L0001794         0   0.15232E-03  732687.0 4057496.5    62.2     3.40     4.00
3.16     NO                     NO
 L0001795         0   0.15232E-03  732695.6 4057496.9    62.2     3.40     4.00
3.16     NO                     NO
 L0001796         0   0.15232E-03  732704.2 4057497.4    62.1     3.40     4.00
3.16     NO                     NO
 L0001797         0   0.15232E-03  732712.8 4057497.8    62.1     3.40     4.00
3.16     NO                     NO
 L0001798         0   0.15232E-03  732721.4 4057498.2    62.1     3.40     4.00
3.16     NO                     NO
 L0001799         0   0.15232E-03  732730.0 4057498.6    62.0     3.40     4.00
3.16     NO                     NO
 L0001800         0   0.15232E-03  732738.6 4057499.1    62.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0001801         0   0.15232E-03  732747.1 4057499.5    62.0     3.40     4.00
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3.16     NO                    NO
 L0001802         0   0.15232E-03  732755.7 4057499.9    62.0     3.40     4.00
3.16     NO                    NO
 L0001803         0   0.15232E-03  732764.3 4057500.3    62.0     3.40     4.00
3.16     NO                    NO
 L0001804         0   0.15232E-03  732772.9 4057500.7    62.0     3.40     4.00
3.16     NO                    NO
 L0001805         0   0.15232E-03  732781.5 4057501.2    61.9     3.40     4.00
3.16     NO                    NO
 L0001806         0   0.15232E-03  732790.1 4057501.6    61.9     3.40     4.00
3.16     NO                    NO
 L0001807         0   0.15232E-03  732798.7 4057502.0    61.9     3.40     4.00
3.16     NO                    NO
 L0001808         0   0.15232E-03  732807.3 4057502.4    61.8     3.40     4.00
3.16     NO                    NO
 L0001809         0   0.15232E-03  732815.9 4057502.9    61.8     3.40     4.00
3.16     NO                    NO
 L0001810         0   0.15232E-03  732824.5 4057503.3    61.8     3.40     4.00
3.16     NO                    NO
 L0001811         0   0.15232E-03  732833.0 4057503.7    61.8     3.40     4.00
3.16     NO                    NO
 L0001812         0   0.15232E-03  732841.6 4057504.1    61.8     3.40     4.00
3.16     NO                    NO
 L0001813         0   0.15232E-03  732850.2 4057504.5    61.8     3.40     4.00
3.16     NO                    NO
 L0001814         0   0.15232E-03  732858.8 4057505.0    61.7     3.40     4.00
3.16     NO                    NO
 L0001815         0   0.15232E-03  732867.4 4057505.4    61.7     3.40     4.00
3.16     NO                    NO
 L0001816         0   0.15232E-03  732876.0 4057505.8    61.7     3.40     4.00
3.16     NO                    NO
 L0001817         0   0.15232E-03  732884.6 4057506.2    61.6     3.40     4.00
3.16     NO                    NO
 L0001818         0   0.15232E-03  732893.2 4057506.7    61.6     3.40     4.00
3.16     NO                    NO
 L0001819         0   0.15232E-03  732901.8 4057507.1    61.6     3.40     4.00
3.16     NO                    NO
 L0001820         0   0.15232E-03  732910.3 4057507.5    61.6     3.40     4.00
3.16     NO                    NO
 L0001821         0   0.15232E-03  732918.9 4057507.9    61.6     3.40     4.00
3.16     NO                    NO
 L0001822         0   0.15232E-03  732927.5 4057508.4    61.5     3.40     4.00
3.16     NO                    NO
 L0001823         0   0.15232E-03  732936.1 4057508.8    61.5     3.40     4.00
3.16     NO                    NO
 L0001824         0   0.15232E-03  732944.7 4057509.2    61.5     3.40     4.00
3.16     NO                    NO
 L0001825         0   0.15232E-03  732953.3 4057509.6    61.4     3.40     4.00
3.16     NO                    NO
 L0001826         0   0.15232E-03  732961.9 4057510.0    61.4     3.40     4.00
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3.16     NO                     NO
 L0001827         0   0.15232E-03  732970.5 4057510.5    61.4     3.40     4.00
3.16     NO                     NO
 L0001828         0   0.15232E-03  732979.1 4057510.9    61.3     3.40     4.00
3.16     NO                     NO
 L0001829         0   0.15232E-03  732987.7 4057511.3    61.3     3.40     4.00
3.16     NO                     NO
 L0001830         0   0.15232E-03  732996.2 4057511.7    61.3     3.40     4.00
3.16     NO                     NO
 L0001831         0   0.15232E-03  733004.8 4057512.2    61.3     3.40     4.00
3.16     NO                     NO
 L0001832         0   0.15232E-03  733013.4 4057512.6    61.3     3.40     4.00
3.16     NO                     NO
 L0001833         0   0.15232E-03  733022.0 4057513.0    61.3     3.40     4.00
3.16     NO                     NO
 L0001834         0   0.15232E-03  733030.6 4057513.4    61.2     3.40     4.00
3.16     NO                     NO
 L0001835         0   0.15232E-03  733039.2 4057513.8    61.2     3.40     4.00
3.16     NO                     NO
 L0001836         0   0.15232E-03  733047.8 4057514.3    61.2     3.40     4.00
3.16     NO                     NO
 L0001837         0   0.15232E-03  733056.4 4057514.7    61.1     3.40     4.00
3.16     NO                     NO
 L0001838         0   0.15232E-03  733065.0 4057515.1    61.1     3.40     4.00
3.16     NO                     NO
 L0001839         0   0.15232E-03  733073.6 4057515.5    61.1     3.40     4.00
3.16     NO                     NO
 L0001840         0   0.15232E-03  733082.1 4057516.0    61.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0001841         0   0.15232E-03  733090.7 4057516.4    61.0     3.40     4.00
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3.16     NO                    NO
 L0001842         0   0.15232E-03  733099.3 4057516.8    61.0     3.40     4.00
3.16     NO                    NO
 L0001843         0   0.15232E-03  733107.9 4057517.2    61.0     3.40     4.00
3.16     NO                    NO
 L0001844         0   0.15232E-03  733116.5 4057517.6    61.0     3.40     4.00
3.16     NO                    NO
 L0001845         0   0.15232E-03  733125.1 4057518.1    60.9     3.40     4.00
3.16     NO                    NO
 L0001846         0   0.15232E-03  733133.7 4057518.5    60.9     3.40     4.00
3.16     NO                    NO
 L0001847         0   0.15232E-03  733142.3 4057518.9    60.9     3.40     4.00
3.16     NO                    NO
 L0001848         0   0.15232E-03  733150.9 4057519.3    60.8     3.40     4.00
3.16     NO                    NO
 L0001849         0   0.15232E-03  733159.4 4057519.8    60.8     3.40     4.00
3.16     NO                    NO
 L0001850         0   0.15232E-03  733168.0 4057520.2    60.8     3.40     4.00
3.16     NO                    NO
 L0001851         0   0.15232E-03  733176.6 4057520.6    60.8     3.40     4.00
3.16     NO                    NO
 L0001852         0   0.15232E-03  733185.2 4057521.0    60.8     3.40     4.00
3.16     NO                    NO
 L0001853         0   0.15232E-03  733193.8 4057521.4    60.8     3.40     4.00
3.16     NO                    NO
 L0001854         0   0.15232E-03  733202.4 4057521.9    60.7     3.40     4.00
3.16     NO                    NO
 L0001855         0   0.15232E-03  733211.0 4057522.3    60.7     3.40     4.00
3.16     NO                    NO
 L0001856         0   0.15232E-03  733219.6 4057522.7    60.7     3.40     4.00
3.16     NO                    NO
 L0001857         0   0.15232E-03  733222.7 4057528.2    60.6     3.40     4.00
3.16     NO                    NO
 L0001858         0   0.15232E-03  733222.6 4057536.8    60.6     3.40     4.00
3.16     NO                    NO
 L0001859         0   0.15232E-03  733222.4 4057545.4    60.6     3.40     4.00
3.16     NO                    NO
 L0001860         0   0.15232E-03  733222.2 4057554.0    60.6     3.40     4.00
3.16     NO                    NO
 L0001861         0   0.15232E-03  733222.1 4057562.6    60.6     3.40     4.00
3.16     NO                    NO
 L0001862         0   0.15232E-03  733221.9 4057571.2    60.6     3.40     4.00
3.16     NO                    NO
 L0001863         0   0.15232E-03  733221.7 4057579.8    60.6     3.40     4.00
3.16     NO                    NO
 L0001864         0   0.15232E-03  733221.6 4057588.4    60.6     3.40     4.00
3.16     NO                    NO
 L0001865         0   0.15232E-03  733221.4 4057597.0    60.6     3.40     4.00
3.16     NO                    NO
 L0001866         0   0.15232E-03  733221.2 4057605.6    60.6     3.40     4.00
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3.16     NO                     NO
 L0001867         0   0.15232E-03  733221.1 4057614.2    60.6     3.40     4.00
3.16     NO                     NO
 L0001868         0   0.15232E-03  733220.9 4057622.8    60.6     3.40     4.00
3.16     NO                     NO
 L0001869         0   0.15232E-03  733220.7 4057631.4    60.6     3.40     4.00
3.16     NO                     NO
 L0001870         0   0.15232E-03  733220.6 4057640.0    60.6     3.40     4.00
3.16     NO                     NO
 L0001871         0   0.15232E-03  733220.4 4057648.6    60.5     3.40     4.00
3.16     NO                     NO
 L0001872         0   0.15232E-03  733220.2 4057657.2    60.5     3.40     4.00
3.16     NO                     NO
 L0001873         0   0.15232E-03  733220.1 4057665.8    60.5     3.40     4.00
3.16     NO                     NO
 L0001874         0   0.15232E-03  733219.9 4057674.4    60.5     3.40     4.00
3.16     NO                     NO
 L0001875         0   0.15232E-03  733219.7 4057683.0    60.5     3.40     4.00
3.16     NO                     NO
 L0001876         0   0.15232E-03  733219.6 4057691.6    60.5     3.40     4.00
3.16     NO                     NO
 L0001877         0   0.15232E-03  733219.4 4057700.2    60.5     3.40     4.00
3.16     NO                     NO
 L0001878         0   0.15232E-03  733219.3 4057708.8    60.5     3.40     4.00
3.16     NO                     NO
 L0001879         0   0.15232E-03  733219.1 4057717.4    60.5     3.40     4.00
3.16     NO                     NO
 L0001880         0   0.15232E-03  733218.9 4057726.0    60.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0001881         0   0.15232E-03  733218.8 4057734.6    60.5     3.40     4.00
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3.16     NO                    NO
 L0001882         0   0.15232E-03  733218.6 4057743.2    60.5     3.40     4.00
3.16     NO                    NO
 L0001883         0   0.15232E-03  733218.4 4057751.8    60.5     3.40     4.00
3.16     NO                    NO
 L0001884         0   0.15232E-03  733218.3 4057760.4    60.5     3.40     4.00
3.16     NO                    NO
 L0001885         0   0.15232E-03  733218.1 4057769.0    60.5     3.40     4.00
3.16     NO                    NO
 L0001886         0   0.15232E-03  733217.9 4057777.6    60.5     3.40     4.00
3.16     NO                    NO
 L0001887         0   0.15232E-03  733217.8 4057786.2    60.5     3.40     4.00
3.16     NO                    NO
 L0001888         0   0.15232E-03  733217.6 4057794.8    60.5     3.40     4.00
3.16     NO                    NO
 L0001889         0   0.15232E-03  733217.4 4057803.4    60.5     3.40     4.00
3.16     NO                    NO
 L0001890         0   0.15232E-03  733217.3 4057812.0    60.5     3.40     4.00
3.16     NO                    NO
 L0001891         0   0.15232E-03  733217.1 4057820.6    60.5     3.40     4.00
3.16     NO                    NO
 L0001892         0   0.15232E-03  733216.9 4057829.1    60.5     3.40     4.00
3.16     NO                    NO
 L0001893         0   0.15232E-03  733216.8 4057837.7    60.5     3.40     4.00
3.16     NO                    NO
 L0001894         0   0.15232E-03  733216.6 4057846.3    60.4     3.40     4.00
3.16     NO                    NO
 L0001895         0   0.15232E-03  733216.4 4057854.9    60.4     3.40     4.00
3.16     NO                    NO
 L0001896         0   0.15232E-03  733216.3 4057863.5    60.4     3.40     4.00
3.16     NO                    NO
 L0001897         0   0.15232E-03  733216.1 4057872.1    60.4     3.40     4.00
3.16     NO                    NO
 L0001898         0   0.15232E-03  733215.9 4057880.7    60.4     3.40     4.00
3.16     NO                    NO
 L0001899         0   0.15232E-03  733215.8 4057889.3    60.4     3.40     4.00
3.16     NO                    NO
 L0001900         0   0.15232E-03  733215.6 4057897.9    60.4     3.40     4.00
3.16     NO                    NO
 L0001901         0   0.15232E-03  733215.4 4057906.5    60.4     3.40     4.00
3.16     NO                    NO
 L0001902         0   0.15232E-03  733215.3 4057915.1    60.4     3.40     4.00
3.16     NO                    NO
 L0001903         0   0.15232E-03  733215.1 4057923.7    60.4     3.40     4.00
3.16     NO                    NO
 L0001904         0   0.15232E-03  733214.9 4057932.3    60.4     3.40     4.00
3.16     NO                    NO
 L0001905         0   0.15232E-03  733214.8 4057940.9    60.4     3.40     4.00
3.16     NO                    NO
 L0001906         0   0.15232E-03  733214.6 4057949.5    60.4     3.40     4.00
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3.16 NO NO
L0001907 0 0.15232E-03 733214.4 4057958.1 60.4 3.40 4.00
3.16 NO NO
L0001908 0 0.15232E-03 733214.3 4057966.7 60.4 3.40 4.00
3.16 NO NO
L0001909 0 0.15232E-03 733214.1 4057975.3 60.4 3.40 4.00
3.16 NO NO
L0001910 0 0.15232E-03 733213.9 4057983.9 60.4 3.40 4.00
3.16 NO NO
L0001911 0 0.15232E-03 733213.8 4057992.5 60.4 3.40 4.00
3.16 NO NO
L0001912 0 0.15232E-03 733213.6 4058001.1 60.4 3.40 4.00
3.16 NO NO
L0001913 0 0.15232E-03 733213.4 4058009.7 60.4 3.40 4.00
3.16 NO NO
L0001914 0 0.15232E-03 733213.3 4058018.3 60.4 3.40 4.00
3.16 NO NO
L0001915 0 0.15232E-03 733213.1 4058026.9 60.3 3.40 4.00
3.16 NO NO
L0001916 0 0.15232E-03 733212.9 4058035.5 60.3 3.40 4.00
3.16 NO NO
L0001917 0 0.15232E-03 733212.8 4058044.1 60.3 3.40 4.00
3.16 NO NO
L0001918 0 0.15232E-03 733212.6 4058052.7 60.3 3.40 4.00
3.16 NO NO
L0001919 0 0.15232E-03 733212.5 4058061.3 60.3 3.40 4.00
3.16 NO NO
L0001920 0 0.15232E-03 733212.3 4058069.9 60.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0001921	0	0.15232E-03	733212.1	4058078.5	60.3	3.40	4.00			

```
3.16     NO                    NO
 L0001922         0   0.15232E-03  733212.0 4058087.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001923         0   0.15232E-03  733211.8 4058095.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001924         0   0.15232E-03  733211.6 4058104.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001925         0   0.15232E-03  733211.5 4058112.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001926         0   0.15232E-03  733211.3 4058121.5    60.3     3.40     4.00
3.16     NO                    NO
 L0001927         0   0.15232E-03  733211.1 4058130.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001928         0   0.15232E-03  733211.0 4058138.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001929         0   0.15232E-03  733210.8 4058147.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001930         0   0.15232E-03  733210.6 4058155.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001931         0   0.15232E-03  733210.5 4058164.5    60.3     3.40     4.00
3.16     NO                    NO
 L0001932         0   0.15232E-03  733210.3 4058173.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001933         0   0.15232E-03  733210.1 4058181.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001934         0   0.15232E-03  733210.0 4058190.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001935         0   0.15232E-03  733209.8 4058198.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001936         0   0.15232E-03  733209.6 4058207.5    60.3     3.40     4.00
3.16     NO                    NO
 L0001937         0   0.15232E-03  733209.5 4058216.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001938         0   0.15232E-03  733209.3 4058224.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001939         0   0.15232E-03  733209.1 4058233.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001940         0   0.15232E-03  733209.0 4058241.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001941         0   0.15232E-03  733208.8 4058250.5    60.3     3.40     4.00
3.16     NO                    NO
 L0001942         0   0.15232E-03  733208.6 4058259.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001943         0   0.15232E-03  733208.5 4058267.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001944         0   0.15232E-03  733208.3 4058276.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001945         0   0.15232E-03  733208.1 4058284.9    60.2     3.40     4.00
3.16     NO                    NO
 L0001946         0   0.15232E-03  733208.0 4058293.5    60.2     3.40     4.00
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3.16     NO                     NO
 L0001947         0   0.15232E-03  733207.8 4058302.1    60.2     3.40     4.00
3.16     NO                     NO
 L0001948         0   0.15232E-03  733207.6 4058310.7    60.2     3.40     4.00
3.16     NO                     NO
 L0001949         0   0.15232E-03  733207.5 4058319.3    60.2     3.40     4.00
3.16     NO                     NO
 L0001950         0   0.15232E-03  733207.3 4058327.9    60.2     3.40     4.00
3.16     NO                     NO
 L0001951         0   0.15232E-03  733207.1 4058336.5    60.2     3.40     4.00
3.16     NO                     NO
 L0001952         0   0.15232E-03  733207.0 4058345.1    60.2     3.40     4.00
3.16     NO                     NO
 L0001953         0   0.15232E-03  733206.8 4058353.7    60.2     3.40     4.00
3.16     NO                     NO
 L0001954         0   0.15232E-03  733206.6 4058362.2    60.2     3.40     4.00
3.16     NO                     NO
 L0001955         0   0.15232E-03  733206.5 4058370.8    60.2     3.40     4.00
3.16     NO                     NO
 L0001956         0   0.15232E-03  733206.3 4058379.4    60.2     3.40     4.00
3.16     NO                     NO
 L0001957         0   0.15232E-03  733206.1 4058388.0    60.2     3.40     4.00
3.16     NO                     NO
 L0001958         0   0.15232E-03  733206.0 4058396.6    60.2     3.40     4.00
3.16     NO                     NO
 L0001959         0   0.15232E-03  733205.8 4058405.2    60.2     3.40     4.00
3.16     NO                     NO
 L0001960         0   0.15232E-03  733205.6 4058413.8    60.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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 L0001961         0   0.15232E-03  733205.5 4058422.4    60.2     3.40     4.00
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3.16     NO                    NO
 L0001962         0   0.15232E-03  733205.3 4058431.0    60.2     3.40     4.00
3.16     NO                    NO
 L0001963         0   0.15232E-03  733205.2 4058439.6    60.2     3.40     4.00
3.16     NO                    NO
 L0001964         0   0.15232E-03  733205.0 4058448.2    60.2     3.40     4.00
3.16     NO                    NO
 L0001965         0   0.15232E-03  733204.8 4058456.8    60.2     3.40     4.00
3.16     NO                    NO
 L0001966         0   0.15232E-03  733204.7 4058465.4    60.2     3.40     4.00
3.16     NO                    NO
 L0001967         0   0.15232E-03  733204.5 4058474.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001968         0   0.15232E-03  733204.3 4058482.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001969         0   0.15232E-03  733204.2 4058491.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001970         0   0.15232E-03  733204.0 4058499.8    60.1     3.40     4.00
3.16     NO                    NO
 L0001971         0   0.15232E-03  733203.8 4058508.4    60.1     3.40     4.00
3.16     NO                    NO
 L0001972         0   0.15232E-03  733203.7 4058517.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001973         0   0.15232E-03  733203.5 4058525.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001974         0   0.15232E-03  733203.3 4058534.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001975         0   0.15232E-03  733203.2 4058542.8    60.1     3.40     4.00
3.16     NO                    NO
 L0001976         0   0.15232E-03  733203.0 4058551.4    60.1     3.40     4.00
3.16     NO                    NO
 L0001977         0   0.15232E-03  733202.8 4058560.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001978         0   0.15232E-03  733202.7 4058568.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001979         0   0.15232E-03  733202.5 4058577.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001980         0   0.15232E-03  733202.3 4058585.8    60.1     3.40     4.00
3.16     NO                    NO
 L0001981         0   0.15232E-03  733202.2 4058594.4    60.1     3.40     4.00
3.16     NO                    NO
 L0001982         0   0.15232E-03  733202.0 4058603.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001983         0   0.15232E-03  733201.8 4058611.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001984         0   0.15232E-03  733201.7 4058620.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001985         0   0.15232E-03  733201.5 4058628.8    60.1     3.40     4.00
3.16     NO                    NO
 L0001986         0   0.15232E-03  733201.3 4058637.4    60.1     3.40     4.00
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3.16     NO                     NO
 L0001987         0   0.15232E-03  733201.2 4058646.0    60.1     3.40     4.00
3.16     NO                     NO
 L0001988         0   0.15232E-03  733201.0 4058654.6    60.1     3.40     4.00
3.16     NO                     NO
 L0001989         0   0.15232E-03  733200.8 4058663.2    60.0     3.40     4.00
3.16     NO                     NO
 L0001990         0   0.15232E-03  733200.7 4058671.8    60.0     3.40     4.00
3.16     NO                     NO
 L0001991         0   0.15232E-03  733200.5 4058680.4    60.0     3.40     4.00
3.16     NO                     NO
 L0001992         0   0.15232E-03  733200.3 4058689.0    60.0     3.40     4.00
3.16     NO                     NO
 L0001993         0   0.15232E-03  733200.2 4058697.6    60.0     3.40     4.00
3.16     NO                     NO
 L0001994         0   0.15232E-03  733200.0 4058706.2    60.0     3.40     4.00
3.16     NO                     NO
 L0001995         0   0.15232E-03  733199.8 4058714.8    60.0     3.40     4.00
3.16     NO                     NO
 L0001996         0   0.15232E-03  733199.7 4058723.4    60.0     3.40     4.00
3.16     NO                     NO
 L0001997         0   0.15232E-03  733199.5 4058732.0    60.0     3.40     4.00
3.16     NO                     NO
 L0001998         0   0.15232E-03  733199.3 4058740.6    60.0     3.40     4.00
3.16     NO                     NO
 L0001999         0   0.15232E-03  733199.2 4058749.2    60.0     3.40     4.00
3.16     NO                     NO
 L0002000         0   0.15232E-03  733199.0 4058757.8    60.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0002001         0   0.15232E-03  733198.8 4058766.4    59.9     3.40     4.00
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3.16     NO                    NO
 L0002002         0   0.15232E-03  733198.7 4058775.0    59.9     3.40     4.00
3.16     NO                    NO
 L0002003         0   0.15232E-03  733198.5 4058783.6    59.9     3.40     4.00
3.16     NO                    NO
 L0002004         0   0.15232E-03  733198.3 4058792.2    59.9     3.40     4.00
3.16     NO                    NO
 L0002005         0   0.15232E-03  733198.2 4058800.8    59.9     3.40     4.00
3.16     NO                    NO
 L0002006         0   0.15232E-03  733198.0 4058809.4    59.9     3.40     4.00
3.16     NO                    NO
 L0002007         0   0.15232E-03  733197.9 4058818.0    59.9     3.40     4.00
3.16     NO                    NO
 L0002008         0   0.15232E-03  733197.7 4058826.6    59.9     3.40     4.00
3.16     NO                    NO
 L0002009         0   0.15232E-03  733197.5 4058835.2    59.9     3.40     4.00
3.16     NO                    NO
 L0002010         0   0.15232E-03  733197.4 4058843.8    59.9     3.40     4.00
3.16     NO                    NO
 L0002011         0   0.15232E-03  733197.2 4058852.4    59.9     3.40     4.00
3.16     NO                    NO
 L0002012         0   0.15232E-03  733197.0 4058861.0    59.9     3.40     4.00
3.16     NO                    NO
 L0002013         0   0.15232E-03  733196.9 4058869.6    59.9     3.40     4.00
3.16     NO                    NO
 L0002014         0   0.15232E-03  733196.7 4058878.2    59.9     3.40     4.00
3.16     NO                    NO
 L0002015         0   0.15232E-03  733196.5 4058886.8    59.9     3.40     4.00
3.16     NO                    NO
 L0002016         0   0.15232E-03  733196.4 4058895.4    59.8     3.40     4.00
3.16     NO                    NO
 L0002017         0   0.15232E-03  733196.2 4058903.9    59.8     3.40     4.00
3.16     NO                    NO
 L0002018         0   0.15232E-03  733196.0 4058912.5    59.8     3.40     4.00
3.16     NO                    NO
 L0002019         0   0.15232E-03  733195.9 4058921.1    59.8     3.40     4.00
3.16     NO                    NO
 L0002020         0   0.15232E-03  733195.7 4058929.7    59.8     3.40     4.00
3.16     NO                    NO
 L0002021         0   0.15232E-03  733195.5 4058938.3    59.8     3.40     4.00
3.16     NO                    NO
 L0002022         0   0.15232E-03  733195.4 4058946.9    59.8     3.40     4.00
3.16     NO                    NO
 L0002023         0   0.15232E-03  733195.2 4058955.5    59.8     3.40     4.00
3.16     NO                    NO
 L0002024         0   0.15232E-03  733195.0 4058964.1    59.8     3.40     4.00
3.16     NO                    NO
 L0002025         0   0.15232E-03  733194.9 4058972.7    59.8     3.40     4.00
3.16     NO                    NO
 L0002026         0   0.15232E-03  733194.7 4058981.3    59.8     3.40     4.00
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3.16   NO   NO
 L0002027   0   0.15232E-03 733194.5 4058989.9   59.8   3.40   4.00
3.16   NO   NO
 L0002028   0   0.15232E-03 733194.4 4058998.5   59.8   3.40   4.00
3.16   NO   NO
 L0002029   0   0.15232E-03 733194.2 4059007.1   59.8   3.40   4.00
3.16   NO   NO
 L0002030   0   0.15232E-03 733194.0 4059015.7   59.8   3.40   4.00
3.16   NO   NO
 L0002031   0   0.15232E-03 733193.9 4059024.3   59.8   3.40   4.00
3.16   NO   NO
 L0002032   0   0.15232E-03 733193.7 4059032.9   59.8   3.40   4.00
3.16   NO   NO
 L0002033   0   0.15232E-03 733193.5 4059041.5   59.8   3.40   4.00
3.16   NO   NO
 L0002034   0   0.15232E-03 733193.4 4059050.1   59.7   3.40   4.00
3.16   NO   NO
 L0002035   0   0.15232E-03 733193.2 4059058.7   59.7   3.40   4.00
3.16   NO   NO
 L0002036   0   0.15232E-03 733193.0 4059067.3   59.7   3.40   4.00
3.16   NO   NO
 L0002037   0   0.15232E-03 733192.9 4059075.9   59.7   3.40   4.00
3.16   NO   NO
 L0002038   0   0.15232E-03 733192.7 4059084.5   59.7   3.40   4.00
3.16   NO   NO
 L0002039   0   0.15232E-03 733192.5 4059093.1   59.7   3.40   4.00
3.16   NO   NO
 L0002040   0   0.15232E-03 733192.4 4059101.7   59.7   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0002041   0   0.15232E-03 733192.2 4059110.3   59.7   3.40   4.00

3.16	NO		NO					
L0002042		0	0.15232E-03	733192.0	4059118.9	59.7	3.40	4.00
3.16	NO		NO					
L0002043		0	0.15232E-03	733191.9	4059127.5	59.7	3.40	4.00
3.16	NO		NO					
L0002044		0	0.15232E-03	733191.7	4059136.1	59.7	3.40	4.00
3.16	NO		NO					
L0002045		0	0.15232E-03	733191.5	4059144.7	59.7	3.40	4.00
3.16	NO		NO					
L0002046		0	0.15232E-03	733191.4	4059153.3	59.7	3.40	4.00
3.16	NO		NO					
L0002047		0	0.15232E-03	733191.2	4059161.9	59.7	3.40	4.00
3.16	NO		NO					
L0002048		0	0.15232E-03	733191.1	4059170.5	59.7	3.40	4.00
3.16	NO		NO					
L0002049		0	0.15232E-03	733190.9	4059179.1	59.7	3.40	4.00
3.16	NO		NO					
L0002050		0	0.15232E-03	733190.7	4059187.7	59.6	3.40	4.00
3.16	NO		NO					
L0002051		0	0.15232E-03	733190.6	4059196.3	59.6	3.40	4.00
3.16	NO		NO					
L0002052		0	0.15232E-03	733190.4	4059204.9	59.6	3.40	4.00
3.16	NO		NO					
L0002053		0	0.15232E-03	733190.2	4059213.5	59.6	3.40	4.00
3.16	NO		NO					
L0002054		0	0.15232E-03	733190.1	4059222.1	59.6	3.40	4.00
3.16	NO		NO					
L0002055		0	0.15232E-03	733189.9	4059230.7	59.6	3.40	4.00
3.16	NO		NO					
L0002056		0	0.15232E-03	733189.7	4059239.3	59.6	3.40	4.00
3.16	NO		NO					
L0002057		0	0.15232E-03	733189.6	4059247.9	59.6	3.40	4.00
3.16	NO		NO					
L0002058		0	0.15232E-03	733189.4	4059256.5	59.6	3.40	4.00
3.16	NO		NO					
L0002059		0	0.15232E-03	733189.2	4059265.1	59.6	3.40	4.00
3.16	NO		NO					
L0002060		0	0.15232E-03	733189.1	4059273.7	59.6	3.40	4.00
3.16	NO		NO					
L0002061		0	0.15232E-03	733188.9	4059282.3	59.6	3.40	4.00
3.16	NO		NO					
L0002062		0	0.15232E-03	733188.7	4059290.9	59.6	3.40	4.00
3.16	NO		NO					
L0002063		0	0.15232E-03	733188.6	4059299.5	59.6	3.40	4.00
3.16	NO		NO					
L0002064		0	0.15232E-03	733188.4	4059308.1	59.6	3.40	4.00
3.16	NO		NO					
L0002065		0	0.15232E-03	733188.2	4059316.7	59.6	3.40	4.00
3.16	NO		NO					
L0002066		0	0.15232E-03	733188.1	4059325.3	59.6	3.40	4.00

3.16   NO   NO
 L0002067   0   0.15232E-03 733187.9 4059333.9   59.6   3.40   4.00
3.16   NO   NO
 L0002068   0   0.15232E-03 733187.7 4059342.5   59.6   3.40   4.00
3.16   NO   NO
 L0002069   0   0.15232E-03 733187.6 4059351.1   59.6   3.40   4.00
3.16   NO   NO
 L0002070   0   0.15232E-03 733187.4 4059359.7   59.6   3.40   4.00
3.16   NO   NO
 L0002071   0   0.15232E-03 733187.2 4059368.3   59.6   3.40   4.00
3.16   NO   NO
 L0002072   0   0.15232E-03 733187.1 4059376.9   59.6   3.40   4.00
3.16   NO   NO
 L0002073   0   0.15232E-03 733186.9 4059385.5   59.6   3.40   4.00
3.16   NO   NO
 L0002074   0   0.15232E-03 733186.7 4059394.1   59.6   3.40   4.00
3.16   NO   NO
 L0002075   0   0.15232E-03 733186.6 4059402.7   59.6   3.40   4.00
3.16   NO   NO
 L0002076   0   0.15232E-03 733186.4 4059411.3   59.6   3.40   4.00
3.16   NO   NO
 L0002077   0   0.15232E-03 733186.2 4059419.9   59.6   3.40   4.00
3.16   NO   NO
 L0002078   0   0.15232E-03 733186.1 4059428.5   59.6   3.40   4.00
3.16   NO   NO
 L0002079   0   0.15232E-03 733185.9 4059437.0   59.6   3.40   4.00
3.16   NO   NO
 L0002080   0   0.15232E-03 733185.7 4059445.6   59.6   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0002081   0   0.15232E-03 733185.6 4059454.2   59.5   3.40   4.00

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3.16     NO                    NO
 L0002082         0   0.15232E-03  733185.4 4059462.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002083         0   0.15232E-03  733185.2 4059471.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002084         0   0.15232E-03  733185.1 4059480.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002085         0   0.15232E-03  733184.9 4059488.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002086         0   0.15232E-03  733184.7 4059497.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002087         0   0.15232E-03  733184.6 4059505.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002088         0   0.15232E-03  733184.4 4059514.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002089         0   0.15232E-03  733184.2 4059523.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002090         0   0.15232E-03  733184.1 4059531.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002091         0   0.15232E-03  733183.9 4059540.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002092         0   0.15232E-03  733183.8 4059548.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002093         0   0.15232E-03  733183.6 4059557.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002094         0   0.15232E-03  733183.4 4059566.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002095         0   0.15232E-03  733183.3 4059574.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002096         0   0.15232E-03  733183.1 4059583.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002097         0   0.15232E-03  733182.9 4059591.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002098         0   0.15232E-03  733182.8 4059600.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002099         0   0.15232E-03  733182.6 4059609.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002100         0   0.15232E-03  733182.4 4059617.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002101         0   0.15232E-03  733182.3 4059626.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002102         0   0.15232E-03  733182.1 4059634.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002103         0   0.15232E-03  733181.9 4059643.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002104         0   0.15232E-03  733181.8 4059652.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002105         0   0.15232E-03  733181.6 4059660.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002106         0   0.15232E-03  733181.4 4059669.2    59.5     3.40     4.00
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3.16 NO NO
L0002107 0 0.15232E-03 733181.3 4059677.8 59.5 3.40 4.00
3.16 NO NO
L0002108 0 0.15232E-03 733181.1 4059686.4 59.5 3.40 4.00
3.16 NO NO
L0002109 0 0.15232E-03 733180.9 4059695.0 59.5 3.40 4.00
3.16 NO NO
L0002110 0 0.15232E-03 733180.8 4059703.6 59.5 3.40 4.00
3.16 NO NO
L0002111 0 0.15232E-03 733180.6 4059712.2 59.5 3.40 4.00
3.16 NO NO
L0002112 0 0.15232E-03 733180.4 4059720.8 59.5 3.40 4.00
3.16 NO NO
L0002113 0 0.15232E-03 733180.3 4059729.4 59.5 3.40 4.00
3.16 NO NO
L0002114 0 0.15232E-03 733180.1 4059738.0 59.5 3.40 4.00
3.16 NO NO
L0002115 0 0.15232E-03 733179.9 4059746.6 59.5 3.40 4.00
3.16 NO NO
L0002116 0 0.15232E-03 733179.8 4059755.2 59.5 3.40 4.00
3.16 NO NO
L0002117 0 0.15232E-03 733179.6 4059763.8 59.5 3.40 4.00
3.16 NO NO
L0002118 0 0.15232E-03 733179.4 4059772.4 59.5 3.40 4.00
3.16 NO NO
L0002119 0 0.15232E-03 733179.3 4059781.0 59.5 3.40 4.00
3.16 NO NO
L0002120 0 0.15232E-03 733179.1 4059789.6 59.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0002121	0	0.15232E-03	733178.9	4059798.2	59.5	3.40	4.00			

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3.16     NO                    NO
 L0002122         0   0.15232E-03  733178.8 4059806.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002123         0   0.15232E-03  733178.6 4059815.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002124         0   0.15232E-03  733178.4 4059824.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002125         0   0.15232E-03  733178.3 4059832.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002126         0   0.15232E-03  733178.1 4059841.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002127         0   0.15232E-03  733177.9 4059849.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002128         0   0.15232E-03  733177.8 4059858.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002129         0   0.15232E-03  733177.6 4059867.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002130         0   0.15232E-03  733177.4 4059875.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002131         0   0.15232E-03  733177.3 4059884.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002132         0   0.15232E-03  733177.1 4059892.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002133         0   0.15232E-03  733177.0 4059901.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002134         0   0.15232E-03  733176.8 4059910.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002135         0   0.15232E-03  733176.6 4059918.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002136         0   0.15232E-03  733176.5 4059927.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002137         0   0.15232E-03  733176.3 4059935.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002138         0   0.15232E-03  733176.1 4059944.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002139         0   0.15232E-03  733176.0 4059953.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002140         0   0.15232E-03  733175.8 4059961.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002141         0   0.15232E-03  733175.6 4059970.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002142         0   0.15232E-03  733175.5 4059978.7    59.5     3.40     4.00
3.16     NO                    NO
 L0002143         0   0.15232E-03  733175.3 4059987.3    59.5     3.40     4.00
3.16     NO                    NO
 L0002144         0   0.15232E-03  733175.1 4059995.9    59.5     3.40     4.00
3.16     NO                    NO
 L0002145         0   0.15232E-03  733175.0 4060004.5    59.5     3.40     4.00
3.16     NO                    NO
 L0002146         0   0.15232E-03  733174.8 4060013.1    59.5     3.40     4.00
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3.16     NO                     NO
 L0002147         0   0.15232E-03  733174.6 4060021.7    59.5     3.40     4.00
3.16     NO                     NO
 L0002148         0   0.15232E-03  733174.5 4060030.3    59.5     3.40     4.00
3.16     NO                     NO
 L0002149         0   0.15232E-03  733174.3 4060038.9    59.5     3.40     4.00
3.16     NO                     NO
 L0002150         0   0.15232E-03  733174.1 4060047.5    59.5     3.40     4.00
3.16     NO                     NO
 L0002151         0   0.15232E-03  733174.0 4060056.1    59.5     3.40     4.00
3.16     NO                     NO
 L0002152         0   0.15232E-03  733173.8 4060064.7    59.5     3.40     4.00
3.16     NO                     NO
 L0002153         0   0.15232E-03  733173.6 4060073.3    59.5     3.40     4.00
3.16     NO                     NO
 L0002154         0   0.15232E-03  733173.5 4060081.9    59.5     3.40     4.00
3.16     NO                     NO
 L0002155         0   0.15232E-03  733173.3 4060090.5    59.5     3.40     4.00
3.16     NO                     NO
 L0002156         0   0.15232E-03  733173.1 4060099.1    59.5     3.40     4.00
3.16     NO                     NO
 L0002157         0   0.15232E-03  733173.0 4060107.7    59.5     3.40     4.00
3.16     NO                     NO
 L0002158         0   0.15232E-03  733172.8 4060116.3    59.5     3.40     4.00
3.16     NO                     NO
 L0002159         0   0.15232E-03  733172.6 4060124.9    59.5     3.40     4.00
3.16     NO                     NO
 L0002160         0   0.15232E-03  733172.5 4060133.5    59.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0002161         0   0.15232E-03  733172.3 4060142.1    59.5     3.40     4.00
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3.16     NO                    NO
 L0002162         0   0.15232E-03  733172.1 4060150.7    59.5     3.40     4.00
3.16     NO                    NO
 L0002163         0   0.15232E-03  733172.0 4060159.3    59.5     3.40     4.00
3.16     NO                    NO
 L0002164         0   0.15232E-03  733171.8 4060167.9    59.5     3.40     4.00
3.16     NO                    NO
 L0002165         0   0.15232E-03  733171.6 4060176.5    59.5     3.40     4.00
3.16     NO                    NO
 L0002166         0   0.15232E-03  733171.5 4060185.1    59.5     3.40     4.00
3.16     NO                    NO
 L0002167         0   0.15232E-03  733171.3 4060193.7    59.5     3.40     4.00
3.16     NO                    NO
 L0002168         0   0.15232E-03  733171.1 4060202.3    59.5     3.40     4.00
3.16     NO                    NO
 L0002169         0   0.15232E-03  733171.0 4060210.9    59.5     3.40     4.00
3.16     NO                    NO
 L0002170         0   0.15232E-03  733169.1 4060217.7    59.5     3.40     4.00
3.16     NO                    NO
 L0002171         0   0.15232E-03  733160.5 4060217.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002172         0   0.15232E-03  733151.9 4060217.1    59.5     3.40     4.00
3.16     NO                    NO
 L0002173         0   0.15232E-03  733143.3 4060216.9    59.6     3.40     4.00
3.16     NO                    NO
 L0002174         0   0.15232E-03  733134.7 4060216.6    59.6     3.40     4.00
3.16     NO                    NO
 L0002175         0   0.15232E-03  733126.1 4060216.3    59.6     3.40     4.00
3.16     NO                    NO
 L0002176         0   0.15232E-03  733117.5 4060216.1    59.7     3.40     4.00
3.16     NO                    NO
 L0002177         0   0.15232E-03  733108.9 4060215.8    59.7     3.40     4.00
3.16     NO                    NO
 L0002178         0   0.15232E-03  733100.3 4060215.5    59.7     3.40     4.00
3.16     NO                    NO
 L0002179         0   0.15232E-03  733091.7 4060215.3    59.7     3.40     4.00
3.16     NO                    NO
 L0002180         0   0.15232E-03  733083.1 4060215.0    59.7     3.40     4.00
3.16     NO                    NO
 L0002181         0   0.15232E-03  733074.5 4060214.7    59.8     3.40     4.00
3.16     NO                    NO
 L0002182         0   0.15232E-03  733065.9 4060214.5    59.8     3.40     4.00
3.16     NO                    NO
 L0002183         0   0.15232E-03  733057.3 4060214.2    59.8     3.40     4.00
3.16     NO                    NO
 L0002184         0   0.15232E-03  733048.7 4060213.9    59.8     3.40     4.00
3.16     NO                    NO
 L0002185         0   0.15232E-03  733040.1 4060213.7    59.8     3.40     4.00
3.16     NO                    NO
 L0002186         0   0.15232E-03  733031.5 4060213.4    59.8     3.40     4.00
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3.16   NO   NO
 L0002187   0   0.15232E-03 733022.9 4060213.1   59.8   3.40   4.00
3.16   NO   NO
 L0002188   0   0.15232E-03 733014.3 4060212.9   59.8   3.40   4.00
3.16   NO   NO
 L0002189   0   0.15232E-03 733005.7 4060212.6   59.8   3.40   4.00
3.16   NO   NO
 L0002190   0   0.15232E-03 732997.1 4060212.3   59.9   3.40   4.00
3.16   NO   NO
 L0002191   0   0.15232E-03 732988.6 4060212.1   59.9   3.40   4.00
3.16   NO   NO
 L0002192   0   0.15232E-03 732980.0 4060211.8   59.9   3.40   4.00
3.16   NO   NO
 L0002193   0   0.15232E-03 732971.4 4060211.5   59.9   3.40   4.00
3.16   NO   NO
 L0002194   0   0.15232E-03 732962.8 4060211.3   59.9   3.40   4.00
3.16   NO   NO
 L0002195   0   0.15232E-03 732954.2 4060211.0   59.9   3.40   4.00
3.16   NO   NO
 L0002196   0   0.15232E-03 732945.6 4060210.7   60.0   3.40   4.00
3.16   NO   NO
 L0002197   0   0.15232E-03 732937.0 4060210.5   60.0   3.40   4.00
3.16   NO   NO
 L0002198   0   0.15232E-03 732928.4 4060210.2   60.0   3.40   4.00
3.16   NO   NO
 L0002199   0   0.15232E-03 732919.8 4060209.9   60.0   3.40   4.00
3.16   NO   NO
 L0002200   0   0.15232E-03 732911.2 4060209.6   60.0   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0002201   0   0.15232E-03 732902.6 4060209.4   60.0   3.40   4.00

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3.16     NO                    NO
 L0002202         0   0.15232E-03  732894.0 4060209.1    60.1     3.40     4.00
3.16     NO                    NO
 L0002203         0   0.15232E-03  732885.4 4060208.8    60.1     3.40     4.00
3.16     NO                    NO
 L0002204         0   0.15232E-03  732876.8 4060208.6    60.1     3.40     4.00
3.16     NO                    NO
 L0002205         0   0.15232E-03  732868.2 4060208.3    60.1     3.40     4.00
3.16     NO                    NO
 L0002206         0   0.15232E-03  732859.6 4060208.0    60.1     3.40     4.00
3.16     NO                    NO
 L0002207         0   0.15232E-03  732851.0 4060207.8    60.1     3.40     4.00
3.16     NO                    NO
 L0002208         0   0.15232E-03  732842.4 4060207.5    60.1     3.40     4.00
3.16     NO                    NO
 L0002209         0   0.15232E-03  732833.8 4060207.2    60.1     3.40     4.00
3.16     NO                    NO
 L0002210         0   0.15232E-03  732825.2 4060207.0    60.2     3.40     4.00
3.16     NO                    NO
 L0002211         0   0.15232E-03  732816.6 4060206.7    60.2     3.40     4.00
3.16     NO                    NO
 L0002212         0   0.15232E-03  732808.0 4060206.4    60.2     3.40     4.00
3.16     NO                    NO
 L0002213         0   0.15232E-03  732799.4 4060206.2    60.2     3.40     4.00
3.16     NO                    NO
 L0002214         0   0.15232E-03  732790.8 4060205.9    60.2     3.40     4.00
3.16     NO                    NO
 L0002215         0   0.15232E-03  732782.3 4060205.6    60.3     3.40     4.00
3.16     NO                    NO
 L0002216         0   0.15232E-03  732773.7 4060205.4    60.3     3.40     4.00
3.16     NO                    NO
 L0002217         0   0.15232E-03  732765.1 4060205.1    60.3     3.40     4.00
3.16     NO                    NO
 L0002218         0   0.15232E-03  732756.5 4060204.8    60.4     3.40     4.00
3.16     NO                    NO
 L0002219         0   0.15232E-03  732747.9 4060204.6    60.4     3.40     4.00
3.16     NO                    NO
 L0002220         0   0.15232E-03  732739.3 4060204.3    60.4     3.40     4.00
3.16     NO                    NO
 L0002221         0   0.15232E-03  732730.7 4060204.0    60.4     3.40     4.00
3.16     NO                    NO
 L0002222         0   0.15232E-03  732722.1 4060203.8    60.5     3.40     4.00
3.16     NO                    NO
 L0002223         0   0.15232E-03  732713.5 4060203.5    60.5     3.40     4.00
3.16     NO                    NO
 L0002224         0   0.15232E-03  732704.9 4060203.2    60.5     3.40     4.00
3.16     NO                    NO
 L0002225         0   0.15232E-03  732696.3 4060203.0    60.6     3.40     4.00
3.16     NO                    NO
 L0002226         0   0.15232E-03  732687.7 4060202.7    60.6     3.40     4.00
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3.16 NO NO
L0002227 0 0.15232E-03 732679.1 4060202.4 60.6 3.40 4.00
3.16 NO NO
L0002228 0 0.15232E-03 732670.5 4060202.2 60.7 3.40 4.00
3.16 NO NO
L0002229 0 0.15232E-03 732661.9 4060201.9 60.7 3.40 4.00
3.16 NO NO
L0002230 0 0.15232E-03 732653.3 4060201.6 60.8 3.40 4.00
3.16 NO NO
L0002231 0 0.15232E-03 732644.7 4060201.4 60.8 3.40 4.00
3.16 NO NO
L0002232 0 0.15232E-03 732636.1 4060201.1 60.8 3.40 4.00
3.16 NO NO
L0002233 0 0.15232E-03 732627.5 4060200.8 60.8 3.40 4.00
3.16 NO NO
L0002234 0 0.15232E-03 732618.9 4060200.6 60.9 3.40 4.00
3.16 NO NO
L0002235 0 0.15232E-03 732610.3 4060200.3 60.9 3.40 4.00
3.16 NO NO
L0002236 0 0.15232E-03 732601.7 4060200.0 61.0 3.40 4.00
3.16 NO NO
L0002237 0 0.15232E-03 732593.1 4060199.8 61.0 3.40 4.00
3.16 NO NO
L0002238 0 0.15232E-03 732584.5 4060199.5 61.0 3.40 4.00
3.16 NO NO
L0002239 0 0.15232E-03 732576.0 4060199.2 61.1 3.40 4.00
3.16 NO NO
L0002240 0 0.15232E-03 732567.4 4060199.0 61.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0002241	0	0.15232E-03	732558.8	4060198.7	61.1	3.40	4.00				

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3.16     NO                    NO
 L0002242         0   0.15232E-03  732550.2 4060198.4    61.1     3.40     4.00
3.16     NO                    NO
 L0002243         0   0.15232E-03  732541.6 4060198.2    61.1     3.40     4.00
3.16     NO                    NO
 L0002244         0   0.15232E-03  732533.0 4060197.9    61.1     3.40     4.00
3.16     NO                    NO
 L0002245         0   0.15232E-03  732524.4 4060197.6    61.2     3.40     4.00
3.16     NO                    NO
 L0002246         0   0.15232E-03  732515.8 4060197.4    61.2     3.40     4.00
3.16     NO                    NO
 L0002247         0   0.15232E-03  732507.2 4060197.1    61.2     3.40     4.00
3.16     NO                    NO
 L0002248         0   0.15232E-03  732498.6 4060196.8    61.3     3.40     4.00
3.16     NO                    NO
 L0002249         0   0.15232E-03  732490.0 4060196.6    61.3     3.40     4.00
3.16     NO                    NO
 L0002250         0   0.15232E-03  732481.4 4060196.3    61.3     3.40     4.00
3.16     NO                    NO
 L0002251         0   0.15232E-03  732472.8 4060196.0    61.4     3.40     4.00
3.16     NO                    NO
 L0002252         0   0.15232E-03  732464.2 4060195.8    61.4     3.40     4.00
3.16     NO                    NO
 L0002253         0   0.15232E-03  732455.6 4060195.5    61.4     3.40     4.00
3.16     NO                    NO
 L0002254         0   0.15232E-03  732447.0 4060195.2    61.5     3.40     4.00
3.16     NO                    NO
 L0002255         0   0.15232E-03  732438.4 4060195.0    61.5     3.40     4.00
3.16     NO                    NO
 L0002256         0   0.15232E-03  732429.8 4060194.7    61.5     3.40     4.00
3.16     NO                    NO
 L0002257         0   0.15232E-03  732421.2 4060194.4    61.5     3.40     4.00
3.16     NO                    NO
 L0002258         0   0.15232E-03  732412.6 4060194.2    61.5     3.40     4.00
3.16     NO                    NO
 L0002259         0   0.15232E-03  732404.0 4060193.9    61.5     3.40     4.00
3.16     NO                    NO
 L0002260         0   0.15232E-03  732395.4 4060193.6    61.6     3.40     4.00
3.16     NO                    NO
 L0002261         0   0.15232E-03  732386.8 4060193.3    61.6     3.40     4.00
3.16     NO                    NO
 L0002262         0   0.15232E-03  732378.2 4060193.1    61.6     3.40     4.00
3.16     NO                    NO
 L0002263         0   0.15232E-03  732369.7 4060192.8    61.7     3.40     4.00
3.16     NO                    NO
 L0002264         0   0.15232E-03  732361.1 4060192.5    61.7     3.40     4.00
3.16     NO                    NO
 L0002265         0   0.15232E-03  732352.5 4060192.3    61.8     3.40     4.00
3.16     NO                    NO
 L0002266         0   0.15232E-03  732343.9 4060192.0    61.8     3.40     4.00
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3.16     NO                     NO
 L0002267         0   0.15232E-03  732335.3 4060191.7    61.8     3.40     4.00
3.16     NO                     NO
 L0002268         0   0.15232E-03  732326.7 4060191.5    61.8     3.40     4.00
3.16     NO                     NO
 L0002269         0   0.15232E-03  732318.1 4060191.2    61.8     3.40     4.00
3.16     NO                     NO
 L0002270         0   0.15232E-03  732309.5 4060190.9    61.8     3.40     4.00
3.16     NO                     NO
 L0002271         0   0.15232E-03  732300.9 4060190.7    61.9     3.40     4.00
3.16     NO                     NO
 L0002272         0   0.15232E-03  732292.3 4060190.4    61.9     3.40     4.00
3.16     NO                     NO
 L0002273         0   0.15232E-03  732283.7 4060190.1    61.9     3.40     4.00
3.16     NO                     NO
 L0002274         0   0.15232E-03  732275.1 4060189.9    62.0     3.40     4.00
3.16     NO                     NO
 L0002275         0   0.15232E-03  732266.5 4060189.6    62.0     3.40     4.00
3.16     NO                     NO
 L0002276         0   0.15232E-03  732257.9 4060189.3    62.0     3.40     4.00
3.16     NO                     NO
 L0002277         0   0.15232E-03  732249.3 4060189.1    62.1     3.40     4.00
3.16     NO                     NO
 L0002278         0   0.15232E-03  732240.7 4060188.8    62.1     3.40     4.00
3.16     NO                     NO
 L0002279         0   0.15232E-03  732232.1 4060188.5    62.1     3.40     4.00
3.16     NO                     NO
 L0002280         0   0.15232E-03  732223.5 4060188.3    62.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0002281         0   0.15232E-03  732214.9 4060188.0    62.1     3.40     4.00
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3.16     NO                    NO
 L0002282         0   0.15232E-03  732206.3 4060187.7    62.2     3.40     4.00
3.16     NO                    NO
 L0002283         0   0.15232E-03  732197.7 4060187.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002284         0   0.15232E-03  732189.1 4060187.2    62.2     3.40     4.00
3.16     NO                    NO
 L0002285         0   0.15232E-03  732180.5 4060186.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002286         0   0.15232E-03  732171.9 4060186.7    62.3     3.40     4.00
3.16     NO                    NO
 L0002287         0   0.15232E-03  732163.4 4060186.4    62.3     3.40     4.00
3.16     NO                    NO
 L0002288         0   0.15232E-03  732154.8 4060186.1    62.4     3.40     4.00
3.16     NO                    NO
 L0002289         0   0.15232E-03  732146.2 4060185.9    62.4     3.40     4.00
3.16     NO                    NO
 L0002290         0   0.15232E-03  732137.6 4060185.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002291         0   0.15232E-03  732129.0 4060185.3    62.4     3.40     4.00
3.16     NO                    NO
 L0002292         0   0.15232E-03  732120.4 4060185.1    62.5     3.40     4.00
3.16     NO                    NO
 L0002293         0   0.15232E-03  732111.8 4060184.8    62.5     3.40     4.00
3.16     NO                    NO
 L0002294         0   0.15232E-03  732103.2 4060184.5    62.5     3.40     4.00
3.16     NO                    NO
 L0002295         0   0.15232E-03  732094.6 4060184.3    62.5     3.40     4.00
3.16     NO                    NO
 L0002296         0   0.15232E-03  732086.0 4060184.0    62.5     3.40     4.00
3.16     NO                    NO
 L0002297         0   0.15232E-03  732077.4 4060183.7    62.6     3.40     4.00
3.16     NO                    NO
 L0002298         0   0.15232E-03  732068.8 4060183.5    62.6     3.40     4.00
3.16     NO                    NO
 L0002299         0   0.15232E-03  732060.2 4060183.2    62.6     3.40     4.00
3.16     NO                    NO
 L0002300         0   0.15232E-03  732051.6 4060182.9    62.7     3.40     4.00
3.16     NO                    NO
 L0002301         0   0.15232E-03  732043.0 4060182.7    62.7     3.40     4.00
3.16     NO                    NO
 L0002302         0   0.15232E-03  732034.4 4060182.4    62.7     3.40     4.00
3.16     NO                    NO
 L0002303         0   0.15232E-03  732025.8 4060182.1    62.7     3.40     4.00
3.16     NO                    NO
 L0002304         0   0.15232E-03  732017.2 4060181.9    62.7     3.40     4.00
3.16     NO                    NO
 L0002305         0   0.15232E-03  732008.6 4060181.6    62.8     3.40     4.00
3.16     NO                    NO
 L0002306         0   0.15232E-03  732000.0 4060181.3    62.8     3.40     4.00
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3.16 NO NO
L0002307 0 0.15232E-03 731991.4 4060181.1 62.8 3.40 4.00
3.16 NO NO
L0002308 0 0.15232E-03 731982.8 4060180.8 62.8 3.40 4.00
3.16 NO NO
L0002309 0 0.15232E-03 731974.2 4060180.5 62.9 3.40 4.00
3.16 NO NO
L0002310 0 0.15232E-03 731965.6 4060180.3 62.9 3.40 4.00
3.16 NO NO
L0002311 0 0.15232E-03 731957.1 4060180.0 62.9 3.40 4.00
3.16 NO NO
L0002312 0 0.15232E-03 731948.5 4060179.7 62.9 3.40 4.00
3.16 NO NO
L0002313 0 0.15232E-03 731939.9 4060179.5 62.9 3.40 4.00
3.16 NO NO
L0002314 0 0.15232E-03 731931.3 4060179.2 63.0 3.40 4.00
3.16 NO NO
L0002315 0 0.15232E-03 731922.7 4060178.9 63.0 3.40 4.00
3.16 NO NO
L0002316 0 0.15232E-03 731914.1 4060178.7 63.0 3.40 4.00
3.16 NO NO
L0002317 0 0.15232E-03 731905.5 4060178.4 63.1 3.40 4.00
3.16 NO NO
L0002318 0 0.15232E-03 731896.9 4060178.1 63.1 3.40 4.00
3.16 NO NO
L0002319 0 0.15232E-03 731888.3 4060177.8 63.1 3.40 4.00
3.16 NO NO
L0002320 0 0.15232E-03 731879.7 4060177.6 63.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0002321	0	0.15232E-03	731871.1	4060177.3	63.1	3.40	4.00			

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3.16     NO                    NO
 L0002322         0   0.15232E-03  731862.5 4060177.0    63.1     3.40     4.00
3.16     NO                    NO
 L0002323         0   0.15232E-03  731853.9 4060176.8    63.2     3.40     4.00
3.16     NO                    NO
 L0002324         0   0.15232E-03  731845.3 4060176.5    63.2     3.40     4.00
3.16     NO                    NO
 L0002325         0   0.15232E-03  731836.7 4060176.2    63.2     3.40     4.00
3.16     NO                    NO
 L0002326         0   0.15232E-03  731828.1 4060176.0    63.3     3.40     4.00
3.16     NO                    NO
 L0002327         0   0.15232E-03  731819.5 4060175.7    63.3     3.40     4.00
3.16     NO                    NO
 L0002328         0   0.15232E-03  731810.9 4060175.4    63.3     3.40     4.00
3.16     NO                    NO
 L0002329         0   0.15232E-03  731802.3 4060175.2    63.3     3.40     4.00
3.16     NO                    NO
 L0002330         0   0.15232E-03  731793.7 4060174.9    63.4     3.40     4.00
3.16     NO                    NO
 L0002331         0   0.15232E-03  731785.1 4060174.6    63.4     3.40     4.00
3.16     NO                    NO
 L0002332         0   0.15232E-03  731776.5 4060174.4    63.5     3.40     4.00
3.16     NO                    NO
 L0002333         0   0.15232E-03  731767.9 4060174.1    63.5     3.40     4.00
3.16     NO                    NO
 L0002334         0   0.15232E-03  731759.3 4060173.8    63.6     3.40     4.00
3.16     NO                    NO
 L0002335         0   0.15232E-03  731750.8 4060173.6    63.7     3.40     4.00
3.16     NO                    NO
 L0002336         0   0.15232E-03  731742.2 4060173.3    63.7     3.40     4.00
3.16     NO                    NO
 L0002337         0   0.15232E-03  731733.6 4060173.0    63.8     3.40     4.00
3.16     NO                    NO
 L0002338         0   0.15232E-03  731725.0 4060172.8    63.8     3.40     4.00
3.16     NO                    NO
 L0002339         0   0.15232E-03  731716.4 4060172.5    63.9     3.40     4.00
3.16     NO                    NO
 L0002340         0   0.15232E-03  731707.8 4060172.2    63.9     3.40     4.00
3.16     NO                    NO
 L0002341         0   0.15232E-03  731699.2 4060172.0    64.0     3.40     4.00
3.16     NO                    NO
 L0002342         0   0.15232E-03  731690.6 4060171.7    64.0     3.40     4.00
3.16     NO                    NO
 L0002343         0   0.15232E-03  731682.0 4060171.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002344         0   0.15232E-03  731673.4 4060171.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002345         0   0.15232E-03  731664.8 4060170.9    64.2     3.40     4.00
3.16     NO                    NO
 L0002346         0   0.15232E-03  731656.2 4060170.6    64.3     3.40     4.00
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3.16     NO                     NO
 L0002347         0   0.15232E-03  731647.6 4060170.4    64.3     3.40     4.00
3.16     NO                     NO
 L0002348         0   0.15232E-03  731639.0 4060170.1    64.4     3.40     4.00
3.16     NO                     NO
 L0002349         0   0.15232E-03  731630.4 4060169.8    64.5     3.40     4.00
3.16     NO                     NO
 L0002350         0   0.15232E-03  731621.8 4060169.6    64.5     3.40     4.00
3.16     NO                     NO
 L0002351         0   0.15232E-03  731613.2 4060169.3    64.6     3.40     4.00
3.16     NO                     NO
 L0002352         0   0.15232E-03  731604.6 4060169.0    64.6     3.40     4.00
3.16     NO                     NO
 L0002353         0   0.15232E-03  731596.0 4060168.8    64.7     3.40     4.00
3.16     NO                     NO
 L0002354         0   0.15232E-03  731587.4 4060168.5    64.7     3.40     4.00
3.16     NO                     NO
 L0002355         0   0.15232E-03  731578.8 4060168.2    64.8     3.40     4.00
3.16     NO                     NO
 L0002356         0   0.15232E-03  731570.2 4060168.0    64.8     3.40     4.00
3.16     NO                     NO
 L0002357         0   0.15232E-03  731561.6 4060167.7    64.8     3.40     4.00
3.16     NO                     NO
 L0002358         0   0.15232E-03  731553.0 4060167.4    64.8     3.40     4.00
3.16     NO                     NO
 L0002359         0   0.15232E-03  731544.5 4060167.2    64.9     3.40     4.00
3.16     NO                     NO
 L0002360         0   0.15232E-03  731535.9 4060166.9    64.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0002361         0   0.15232E-03  731527.3 4060166.6    64.9     3.40     4.00
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3.16     NO                    NO
 L0002362         0   0.15232E-03  731518.7 4060166.4    64.9     3.40     4.00
3.16     NO                    NO
 L0002363         0   0.15232E-03  731510.1 4060166.1    65.0     3.40     4.00
3.16     NO                    NO
 L0002364         0   0.15232E-03  731501.5 4060165.8    65.0     3.40     4.00
3.16     NO                    NO
 L0002365         0   0.15232E-03  731498.6 4060160.1    65.0     3.40     4.00
3.16     NO                    NO
 L0002366         0   0.15232E-03  731498.9 4060151.5    65.0     3.40     4.00
3.16     NO                    NO
 L0002367         0   0.15232E-03  731499.1 4060142.9    65.0     3.40     4.00
3.16     NO                    NO
 L0002368         0   0.15232E-03  731499.3 4060134.3    65.0     3.40     4.00
3.16     NO                    NO
 L0002369         0   0.15232E-03  731499.6 4060125.7    64.9     3.40     4.00
3.16     NO                    NO
 L0002370         0   0.15232E-03  731499.8 4060117.1    64.9     3.40     4.00
3.16     NO                    NO
 L0002371         0   0.15232E-03  731500.1 4060108.5    64.9     3.40     4.00
3.16     NO                    NO
 L0002372         0   0.15232E-03  731500.3 4060099.9    64.9     3.40     4.00
3.16     NO                    NO
 L0002373         0   0.15232E-03  731500.5 4060091.3    64.9     3.40     4.00
3.16     NO                    NO
 L0002374         0   0.15232E-03  731500.8 4060082.8    64.9     3.40     4.00
3.16     NO                    NO
 L0002375         0   0.15232E-03  731501.0 4060074.2    64.9     3.40     4.00
3.16     NO                    NO
 L0002376         0   0.15232E-03  731501.2 4060065.6    64.9     3.40     4.00
3.16     NO                    NO
 L0002377         0   0.15232E-03  731501.5 4060057.0    64.9     3.40     4.00
3.16     NO                    NO
 L0002378         0   0.15232E-03  731501.7 4060048.4    64.9     3.40     4.00
3.16     NO                    NO
 L0002379         0   0.15232E-03  731501.9 4060039.8    64.8     3.40     4.00
3.16     NO                    NO
 L0002380         0   0.15232E-03  731502.2 4060031.2    64.8     3.40     4.00
3.16     NO                    NO
 L0002381         0   0.15232E-03  731502.4 4060022.6    64.8     3.40     4.00
3.16     NO                    NO
 L0002382         0   0.15232E-03  731502.7 4060014.0    64.8     3.40     4.00
3.16     NO                    NO
 L0002383         0   0.15232E-03  731502.9 4060005.4    64.8     3.40     4.00
3.16     NO                    NO
 L0002384         0   0.15232E-03  731503.1 4059996.8    64.7     3.40     4.00
3.16     NO                    NO
 L0002385         0   0.15232E-03  731503.4 4059988.2    64.7     3.40     4.00
3.16     NO                    NO
 L0002386         0   0.15232E-03  731503.6 4059979.6    64.7     3.40     4.00
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3.16     NO                     NO
 L0002387         0   0.15232E-03  731503.8 4059971.0    64.6     3.40     4.00
3.16     NO                     NO
 L0002388         0   0.15232E-03  731504.1 4059962.4    64.6     3.40     4.00
3.16     NO                     NO
 L0002389         0   0.15232E-03  731504.3 4059953.8    64.6     3.40     4.00
3.16     NO                     NO
 L0002390         0   0.15232E-03  731504.6 4059945.2    64.6     3.40     4.00
3.16     NO                     NO
 L0002391         0   0.15232E-03  731504.8 4059936.6    64.5     3.40     4.00
3.16     NO                     NO
 L0002392         0   0.15232E-03  731505.0 4059928.0    64.5     3.40     4.00
3.16     NO                     NO
 L0002393         0   0.15232E-03  731505.3 4059919.4    64.5     3.40     4.00
3.16     NO                     NO
 L0002394         0   0.15232E-03  731505.5 4059910.8    64.5     3.40     4.00
3.16     NO                     NO
 L0002395         0   0.15232E-03  731505.7 4059902.2    64.5     3.40     4.00
3.16     NO                     NO
 L0002396         0   0.15232E-03  731506.0 4059893.6    64.5     3.40     4.00
3.16     NO                     NO
 L0002397         0   0.15232E-03  731506.2 4059885.0    64.5     3.40     4.00
3.16     NO                     NO
 L0002398         0   0.15232E-03  731506.4 4059876.4    64.4     3.40     4.00
3.16     NO                     NO
 L0002399         0   0.15232E-03  731506.7 4059867.8    64.4     3.40     4.00
3.16     NO                     NO
 L0002400         0   0.15232E-03  731506.9 4059859.2    64.4     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0002401	0	0.15232E-03	731507.2	4059850.6	64.4	3.40	4.00			

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3.16     NO                    NO
 L0002402         0   0.15232E-03  731507.4 4059842.0    64.4     3.40     4.00
3.16     NO                    NO
 L0002403         0   0.15232E-03  731507.6 4059833.4    64.3     3.40     4.00
3.16     NO                    NO
 L0002404         0   0.15232E-03  731507.9 4059824.9    64.3     3.40     4.00
3.16     NO                    NO
 L0002405         0   0.15232E-03  731508.1 4059816.3    64.3     3.40     4.00
3.16     NO                    NO
 L0002406         0   0.15232E-03  731508.3 4059807.7    64.3     3.40     4.00
3.16     NO                    NO
 L0002407         0   0.15232E-03  731508.6 4059799.1    64.3     3.40     4.00
3.16     NO                    NO
 L0002408         0   0.15232E-03  731508.8 4059790.5    64.3     3.40     4.00
3.16     NO                    NO
 L0002409         0   0.15232E-03  731509.0 4059781.9    64.2     3.40     4.00
3.16     NO                    NO
 L0002410         0   0.15232E-03  731509.3 4059773.3    64.2     3.40     4.00
3.16     NO                    NO
 L0002411         0   0.15232E-03  731509.5 4059764.7    64.2     3.40     4.00
3.16     NO                    NO
 L0002412         0   0.15232E-03  731509.8 4059756.1    64.2     3.40     4.00
3.16     NO                    NO
 L0002413         0   0.15232E-03  731510.0 4059747.5    64.2     3.40     4.00
3.16     NO                    NO
 L0002414         0   0.15232E-03  731510.2 4059738.9    64.2     3.40     4.00
3.16     NO                    NO
 L0002415         0   0.15232E-03  731510.5 4059730.3    64.2     3.40     4.00
3.16     NO                    NO
 L0002416         0   0.15232E-03  731510.7 4059721.7    64.2     3.40     4.00
3.16     NO                    NO
 L0002417         0   0.15232E-03  731510.9 4059713.1    64.2     3.40     4.00
3.16     NO                    NO
 L0002418         0   0.15232E-03  731511.2 4059704.5    64.1     3.40     4.00
3.16     NO                    NO
 L0002419         0   0.15232E-03  731511.4 4059695.9    64.1     3.40     4.00
3.16     NO                    NO
 L0002420         0   0.15232E-03  731511.6 4059687.3    64.1     3.40     4.00
3.16     NO                    NO
 L0002421         0   0.15232E-03  731511.9 4059678.7    64.1     3.40     4.00
3.16     NO                    NO
 L0002422         0   0.15232E-03  731512.1 4059670.1    64.1     3.40     4.00
3.16     NO                    NO
 L0002423         0   0.15232E-03  731512.4 4059661.5    64.1     3.40     4.00
3.16     NO                    NO
 L0002424         0   0.15232E-03  731512.6 4059652.9    64.1     3.40     4.00
3.16     NO                    NO
 L0002425         0   0.15232E-03  731512.8 4059644.3    64.1     3.40     4.00
3.16     NO                    NO
 L0002426         0   0.15232E-03  731513.1 4059635.7    64.1     3.40     4.00
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3.16     NO                     NO
 L0002427         0   0.15232E-03  731513.3 4059627.1    64.1     3.40     4.00
3.16     NO                     NO
 L0002428         0   0.15232E-03  731513.5 4059618.5    64.1     3.40     4.00
3.16     NO                     NO
 L0002429         0   0.15232E-03  731513.8 4059609.9    64.1     3.40     4.00
3.16     NO                     NO
 L0002430         0   0.15232E-03  731514.0 4059601.3    64.1     3.40     4.00
3.16     NO                     NO
 L0002431         0   0.15232E-03  731514.3 4059592.7    64.1     3.40     4.00
3.16     NO                     NO
 L0002432         0   0.15232E-03  731514.5 4059584.1    64.1     3.40     4.00
3.16     NO                     NO
 L0002433         0   0.15232E-03  731514.7 4059575.5    64.1     3.40     4.00
3.16     NO                     NO
 L0002434         0   0.15232E-03  731515.0 4059566.9    64.1     3.40     4.00
3.16     NO                     NO
 L0002435         0   0.15232E-03  731515.2 4059558.4    64.1     3.40     4.00
3.16     NO                     NO
 L0002436         0   0.15232E-03  731515.4 4059549.8    64.1     3.40     4.00
3.16     NO                     NO
 L0002437         0   0.15232E-03  731515.7 4059541.2    64.1     3.40     4.00
3.16     NO                     NO
 L0002438         0   0.15232E-03  731515.9 4059532.6    64.1     3.40     4.00
3.16     NO                     NO
 L0002439         0   0.15232E-03  731516.1 4059524.0    64.1     3.40     4.00
3.16     NO                     NO
 L0002440         0   0.15232E-03  731516.4 4059515.4    64.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0002441         0   0.15232E-03  731516.6 4059506.8    64.1     3.40     4.00
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3.16     NO                    NO
 L0002442         0   0.15232E-03  731516.9 4059498.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002443         0   0.15232E-03  731517.1 4059489.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002444         0   0.15232E-03  731517.3 4059481.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002445         0   0.15232E-03  731517.6 4059472.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002446         0   0.15232E-03  731517.8 4059463.8    64.1     3.40     4.00
3.16     NO                    NO
 L0002447         0   0.15232E-03  731518.0 4059455.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002448         0   0.15232E-03  731518.3 4059446.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002449         0   0.15232E-03  731518.5 4059438.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002450         0   0.15232E-03  731518.7 4059429.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002451         0   0.15232E-03  731519.0 4059420.8    64.1     3.40     4.00
3.16     NO                    NO
 L0002452         0   0.15232E-03  731519.2 4059412.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002453         0   0.15232E-03  731519.5 4059403.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002454         0   0.15232E-03  731519.7 4059395.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002455         0   0.15232E-03  731519.9 4059386.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002456         0   0.15232E-03  731520.2 4059377.8    64.1     3.40     4.00
3.16     NO                    NO
 L0002457         0   0.15232E-03  731520.4 4059369.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002458         0   0.15232E-03  731520.6 4059360.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002459         0   0.15232E-03  731520.9 4059352.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002460         0   0.15232E-03  731521.1 4059343.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002461         0   0.15232E-03  731521.4 4059334.8    64.1     3.40     4.00
3.16     NO                    NO
 L0002462         0   0.15232E-03  731521.6 4059326.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002463         0   0.15232E-03  731521.8 4059317.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002464         0   0.15232E-03  731522.1 4059309.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002465         0   0.15232E-03  731522.3 4059300.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002466         0   0.15232E-03  731522.5 4059291.9    64.1     3.40     4.00
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3.16 NO NO
L0002467 0 0.15232E-03 731522.8 4059283.3 64.1 3.40 4.00
3.16 NO NO
L0002468 0 0.15232E-03 731523.0 4059274.7 64.1 3.40 4.00
3.16 NO NO
L0002469 0 0.15232E-03 731523.2 4059266.1 64.1 3.40 4.00
3.16 NO NO
L0002470 0 0.15232E-03 731523.5 4059257.5 64.1 3.40 4.00
3.16 NO NO
L0002471 0 0.15232E-03 731523.7 4059248.9 64.1 3.40 4.00
3.16 NO NO
L0002472 0 0.15232E-03 731524.0 4059240.3 64.1 3.40 4.00
3.16 NO NO
L0002473 0 0.15232E-03 731524.2 4059231.7 64.1 3.40 4.00
3.16 NO NO
L0002474 0 0.15232E-03 731524.4 4059223.1 64.1 3.40 4.00
3.16 NO NO
L0002475 0 0.15232E-03 731531.2 4059221.3 64.1 3.40 4.00
3.16 NO NO
L0002476 0 0.15232E-03 731539.8 4059221.4 64.1 3.40 4.00
3.16 NO NO
L0002477 0 0.15232E-03 731548.4 4059221.5 64.1 3.40 4.00
3.16 NO NO
L0002478 0 0.15232E-03 731557.0 4059221.6 64.1 3.40 4.00
3.16 NO NO
L0002479 0 0.15232E-03 731565.6 4059221.7 64.0 3.40 4.00
3.16 NO NO
L0002480 0 0.15232E-03 731574.2 4059221.8 64.0 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0002481	0	0.15232E-03	731582.8	4059221.9	64.0	3.40	4.00			

```
3.16     NO                    NO
 L0002482         0   0.15232E-03  731591.4 4059222.0    63.9     3.40     4.00
3.16     NO                    NO
 L0002483         0   0.15232E-03  731600.0 4059222.1    63.9     3.40     4.00
3.16     NO                    NO
 L0002484         0   0.15232E-03  731608.6 4059222.2    63.9     3.40     4.00
3.16     NO                    NO
 L0002485         0   0.15232E-03  731617.2 4059222.3    63.8     3.40     4.00
3.16     NO                    NO
 L0002486         0   0.15232E-03  731625.8 4059222.3    63.8     3.40     4.00
3.16     NO                    NO
 L0002487         0   0.15232E-03  731634.4 4059222.4    63.8     3.40     4.00
3.16     NO                    NO
 L0002488         0   0.15232E-03  731643.0 4059222.5    63.8     3.40     4.00
3.16     NO                    NO
 L0002489         0   0.15232E-03  731651.6 4059222.6    63.8     3.40     4.00
3.16     NO                    NO
 L0002490         0   0.15232E-03  731660.2 4059222.7    63.8     3.40     4.00
3.16     NO                    NO
 L0002491         0   0.15232E-03  731668.8 4059222.8    63.7     3.40     4.00
3.16     NO                    NO
 L0002492         0   0.15232E-03  731677.4 4059222.9    63.7     3.40     4.00
3.16     NO                    NO
 L0002493         0   0.15232E-03  731686.0 4059223.0    63.7     3.40     4.00
3.16     NO                    NO
 L0002494         0   0.15232E-03  731694.6 4059223.1    63.6     3.40     4.00
3.16     NO                    NO
 L0002495         0   0.15232E-03  731703.2 4059223.2    63.6     3.40     4.00
3.16     NO                    NO
 L0002496         0   0.15232E-03  731711.8 4059223.3    63.6     3.40     4.00
3.16     NO                    NO
 L0002497         0   0.15232E-03  731720.4 4059223.4    63.6     3.40     4.00
3.16     NO                    NO
 L0002498         0   0.15232E-03  731729.0 4059223.5    63.6     3.40     4.00
3.16     NO                    NO
 L0002499         0   0.15232E-03  731737.6 4059223.6    63.5     3.40     4.00
3.16     NO                    NO
 L0002500         0   0.15232E-03  731746.2 4059223.7    63.5     3.40     4.00
3.16     NO                    NO
 L0002501         0   0.15232E-03  731754.8 4059223.8    63.5     3.40     4.00
3.16     NO                    NO
 L0002502         0   0.15232E-03  731763.4 4059223.9    63.4     3.40     4.00
3.16     NO                    NO
 L0002503         0   0.15232E-03  731772.0 4059224.0    63.4     3.40     4.00
3.16     NO                    NO
 L0002504         0   0.15232E-03  731780.6 4059224.0    63.4     3.40     4.00
3.16     NO                    NO
 L0002505         0   0.15232E-03  731789.2 4059224.1    63.4     3.40     4.00
3.16     NO                    NO
 L0002506         0   0.15232E-03  731797.8 4059224.2    63.4     3.40     4.00
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3.16   NO   NO
 L0002507   0   0.15232E-03 731806.4 4059224.3   63.3   3.40   4.00
3.16   NO   NO
 L0002508   0   0.15232E-03 731815.0 4059224.4   63.3   3.40   4.00
3.16   NO   NO
 L0002509   0   0.15232E-03 731823.6 4059224.5   63.3   3.40   4.00
3.16   NO   NO
 L0002510   0   0.15232E-03 731832.2 4059224.6   63.3   3.40   4.00
3.16   NO   NO
 L0002511   0   0.15232E-03 731840.8 4059224.7   63.2   3.40   4.00
3.16   NO   NO
 L0002512   0   0.15232E-03 731849.4 4059224.8   63.2   3.40   4.00
3.16   NO   NO
 L0002513   0   0.15232E-03 731858.0 4059224.9   63.2   3.40   4.00
3.16   NO   NO
 L0002514   0   0.15232E-03 731866.6 4059225.0   63.2   3.40   4.00
3.16   NO   NO
 L0002515   0   0.15232E-03 731875.2 4059225.1   63.2   3.40   4.00
3.16   NO   NO
 L0002516   0   0.15232E-03 731883.8 4059225.2   63.1   3.40   4.00
3.16   NO   NO
 L0002517   0   0.15232E-03 731892.4 4059225.3   63.1   3.40   4.00
3.16   NO   NO
 L0002518   0   0.15232E-03 731901.0 4059225.4   63.1   3.40   4.00
3.16   NO   NO
 L0002519   0   0.15232E-03 731909.6 4059225.5   63.0   3.40   4.00
3.16   NO   NO
 L0002520   0   0.15232E-03 731918.2 4059225.6   63.0   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0002521   0   0.15232E-03 731926.8 4059225.7   63.0   3.40   4.00

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3.16     NO                    NO
 L0002522         0   0.15232E-03  731935.4 4059225.8    62.9     3.40     4.00
3.16     NO                    NO
 L0002523         0   0.15232E-03  731944.0 4059225.8    62.9     3.40     4.00
3.16     NO                    NO
 L0002524         0   0.15232E-03  731952.6 4059225.9    62.9     3.40     4.00
3.16     NO                    NO
 L0002525         0   0.15232E-03  731961.2 4059226.0    62.8     3.40     4.00
3.16     NO                    NO
 L0002526         0   0.15232E-03  731969.8 4059226.1    62.8     3.40     4.00
3.16     NO                    NO
 L0002527         0   0.15232E-03  731978.4 4059226.2    62.8     3.40     4.00
3.16     NO                    NO
 L0002528         0   0.15232E-03  731987.0 4059226.3    62.8     3.40     4.00
3.16     NO                    NO
 L0002529         0   0.15232E-03  731995.6 4059226.4    62.8     3.40     4.00
3.16     NO                    NO
 L0002530         0   0.15232E-03  732004.2 4059226.5    62.8     3.40     4.00
3.16     NO                    NO
 L0002531         0   0.15232E-03  732012.8 4059226.6    62.7     3.40     4.00
3.16     NO                    NO
 L0002532         0   0.15232E-03  732021.4 4059226.7    62.7     3.40     4.00
3.16     NO                    NO
 L0002533         0   0.15232E-03  732030.0 4059226.8    62.7     3.40     4.00
3.16     NO                    NO
 L0002534         0   0.15232E-03  732038.6 4059226.9    62.6     3.40     4.00
3.16     NO                    NO
 L0002535         0   0.15232E-03  732047.2 4059227.0    62.6     3.40     4.00
3.16     NO                    NO
 L0002536         0   0.15232E-03  732055.8 4059227.1    62.6     3.40     4.00
3.16     NO                    NO
 L0002537         0   0.15232E-03  732064.4 4059227.2    62.5     3.40     4.00
3.16     NO                    NO
 L0002538         0   0.15232E-03  732073.0 4059227.3    62.5     3.40     4.00
3.16     NO                    NO
 L0002539         0   0.15232E-03  732081.6 4059227.4    62.5     3.40     4.00
3.16     NO                    NO
 L0002540         0   0.15232E-03  732090.2 4059227.5    62.4     3.40     4.00
3.16     NO                    NO
 L0002541         0   0.15232E-03  732098.8 4059227.5    62.4     3.40     4.00
3.16     NO                    NO
 L0002542         0   0.15232E-03  732107.4 4059227.6    62.3     3.40     4.00
3.16     NO                    NO
 L0002543         0   0.15232E-03  732116.0 4059227.7    62.3     3.40     4.00
3.16     NO                    NO
 L0002544         0   0.15232E-03  732124.6 4059227.8    62.3     3.40     4.00
3.16     NO                    NO
 L0002545         0   0.15232E-03  732133.2 4059227.9    62.3     3.40     4.00
3.16     NO                    NO
 L0002546         0   0.15232E-03  732141.8 4059228.0    62.2     3.40     4.00
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3.16     NO                     NO
 L0002547         0   0.15232E-03  732150.4 4059228.1    62.2     3.40     4.00
3.16     NO                     NO
 L0002548         0   0.15232E-03  732159.0 4059228.2    62.2     3.40     4.00
3.16     NO                     NO
 L0002549         0   0.15232E-03  732167.6 4059228.3    62.1     3.40     4.00
3.16     NO                     NO
 L0002550         0   0.15232E-03  732176.2 4059228.4    62.1     3.40     4.00
3.16     NO                     NO
 L0002551         0   0.15232E-03  732184.8 4059228.5    62.1     3.40     4.00
3.16     NO                     NO
 L0002552         0   0.15232E-03  732193.4 4059228.6    62.1     3.40     4.00
3.16     NO                     NO
 L0002553         0   0.15232E-03  732202.0 4059228.7    62.1     3.40     4.00
3.16     NO                     NO
 L0002554         0   0.15232E-03  732210.6 4059228.8    62.0     3.40     4.00
3.16     NO                     NO
 L0002555         0   0.15232E-03  732219.2 4059228.9    62.0     3.40     4.00
3.16     NO                     NO
 L0002556         0   0.15232E-03  732227.8 4059229.0    62.0     3.40     4.00
3.16     NO                     NO
 L0002557         0   0.15232E-03  732236.4 4059229.1    61.9     3.40     4.00
3.16     NO                     NO
 L0002558         0   0.15232E-03  732245.0 4059229.2    61.9     3.40     4.00
3.16     NO                     NO
 L0002559         0   0.15232E-03  732253.6 4059229.2    61.9     3.40     4.00
3.16     NO                     NO
 L0002560         0   0.15232E-03  732262.2 4059229.3    61.8     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  66
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0002561         0   0.15232E-03  732270.8 4059229.4    61.8     3.40     4.00
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3.16     NO                    NO
 L0002562         0   0.15232E-03  732279.4 4059229.5    61.8     3.40     4.00
3.16     NO                    NO
 L0002563         0   0.15232E-03  732288.0 4059229.6    61.7     3.40     4.00
3.16     NO                    NO
 L0002564         0   0.15232E-03  732296.6 4059229.7    61.7     3.40     4.00
3.16     NO                    NO
 L0002565         0   0.15232E-03  732305.2 4059229.8    61.7     3.40     4.00
3.16     NO                    NO
 L0002566         0   0.15232E-03  732313.0 4059229.1    61.7     3.40     4.00
3.16     NO                    NO
 L0002567         0   0.15232E-03  732313.3 4059220.5    61.7     3.40     4.00
3.16     NO                    NO
 L0002568         0   0.15232E-03  732313.5 4059211.9    61.7     3.40     4.00
3.16     NO                    NO
 L0002569         0   0.15232E-03  732313.7 4059203.3    61.7     3.40     4.00
3.16     NO                    NO
 L0002570         0   0.15232E-03  732314.0 4059194.7    61.7     3.40     4.00
3.16     NO                    NO
 L0002571         0   0.15232E-03  732314.2 4059186.1    61.7     3.40     4.00
3.16     NO                    NO
 L0002572         0   0.15232E-03  732314.4 4059177.5    61.7     3.40     4.00
3.16     NO                    NO
 L0002573         0   0.15232E-03  732314.7 4059168.9    61.8     3.40     4.00
3.16     NO                    NO
 L0002574         0   0.15232E-03  732314.9 4059160.3    61.8     3.40     4.00
3.16     NO                    NO
 L0002575         0   0.15232E-03  732315.1 4059151.7    61.8     3.40     4.00
3.16     NO                    NO
 L0002576         0   0.15232E-03  732315.4 4059143.1    61.8     3.40     4.00
3.16     NO                    NO
 L0002577         0   0.15232E-03  732315.6 4059134.6    61.8     3.40     4.00
3.16     NO                    NO
 L0002578         0   0.15232E-03  732315.8 4059126.0    61.8     3.40     4.00
3.16     NO                    NO
 L0002579         0   0.15232E-03  732316.1 4059117.4    61.8     3.40     4.00
3.16     NO                    NO
 L0002580         0   0.15232E-03  732316.3 4059108.8    61.8     3.40     4.00
3.16     NO                    NO
 L0002581         0   0.15232E-03  732316.5 4059100.2    61.9     3.40     4.00
3.16     NO                    NO
 L0002582         0   0.15232E-03  732316.8 4059091.6    61.9     3.40     4.00
3.16     NO                    NO
 L0002583         0   0.15232E-03  732317.0 4059083.0    61.9     3.40     4.00
3.16     NO                    NO
 L0002584         0   0.15232E-03  732317.3 4059074.4    61.9     3.40     4.00
3.16     NO                    NO
 L0002585         0   0.15232E-03  732317.5 4059065.8    61.9     3.40     4.00
3.16     NO                    NO
 L0002586         0   0.15232E-03  732317.7 4059057.2    61.9     3.40     4.00
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3.16   NO   NO
 L0002587   0   0.15232E-03 732318.0 4059048.6   61.9   3.40   4.00
3.16   NO   NO
 L0002588   0   0.15232E-03 732318.2 4059040.0   61.9   3.40   4.00
3.16   NO   NO
 L0002589   0   0.15232E-03 732318.4 4059031.4   61.9   3.40   4.00
3.16   NO   NO
 L0002590   0   0.15232E-03 732318.7 4059022.8   62.0   3.40   4.00
3.16   NO   NO
 L0002591   0   0.15232E-03 732318.9 4059014.2   62.0   3.40   4.00
3.16   NO   NO
 L0002592   0   0.15232E-03 732319.1 4059005.6   62.0   3.40   4.00
3.16   NO   NO
 L0002593   0   0.15232E-03 732319.4 4058997.0   62.0   3.40   4.00
3.16   NO   NO
 L0002594   0   0.15232E-03 732319.6 4058988.4   62.0   3.40   4.00
3.16   NO   NO
 L0002595   0   0.15232E-03 732319.8 4058979.8   62.0   3.40   4.00
3.16   NO   NO
 L0002596   0   0.15232E-03 732320.1 4058971.2   62.0   3.40   4.00
3.16   NO   NO
 L0002597   0   0.15232E-03 732320.3 4058962.6   62.1   3.40   4.00
3.16   NO   NO
 L0002598   0   0.15232E-03 732320.5 4058954.0   62.1   3.40   4.00
3.16   NO   NO
 L0002599   0   0.15232E-03 732320.8 4058945.4   62.1   3.40   4.00
3.16   NO   NO
 L0002600   0   0.15232E-03 732321.0 4058936.8   62.1   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0002601   0   0.15232E-03 732321.2 4058928.2   62.1   3.40   4.00

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3.16     NO                    NO
 L0002602         0   0.15232E-03  732321.5 4058919.6    62.1     3.40     4.00
3.16     NO                    NO
 L0002603         0   0.15232E-03  732321.7 4058911.0    62.1     3.40     4.00
3.16     NO                    NO
 L0002604         0   0.15232E-03  732321.9 4058902.4    62.1     3.40     4.00
3.16     NO                    NO
 L0002605         0   0.15232E-03  732322.2 4058893.8    62.1     3.40     4.00
3.16     NO                    NO
 L0002606         0   0.15232E-03  732322.4 4058885.2    62.1     3.40     4.00
3.16     NO                    NO
 L0002607         0   0.15232E-03  732322.7 4058876.6    62.1     3.40     4.00
3.16     NO                    NO
 L0002608         0   0.15232E-03  732322.9 4058868.1    62.1     3.40     4.00
3.16     NO                    NO
 L0002609         0   0.15232E-03  732323.1 4058859.5    62.1     3.40     4.00
3.16     NO                    NO
 L0002610         0   0.15232E-03  732323.4 4058850.9    62.1     3.40     4.00
3.16     NO                    NO
 L0002611         0   0.15232E-03  732323.6 4058842.3    62.1     3.40     4.00
3.16     NO                    NO
 L0002612         0   0.15232E-03  732323.8 4058833.7    62.2     3.40     4.00
3.16     NO                    NO
 L0002613         0   0.15232E-03  732324.1 4058825.1    62.2     3.40     4.00
3.16     NO                    NO
 L0002614         0   0.15232E-03  732324.3 4058816.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002615         0   0.15232E-03  732324.5 4058807.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002616         0   0.15232E-03  732324.8 4058799.3    62.2     3.40     4.00
3.16     NO                    NO
 L0002617         0   0.15232E-03  732325.0 4058790.7    62.2     3.40     4.00
3.16     NO                    NO
 L0002618         0   0.15232E-03  732325.2 4058782.1    62.2     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002620         0   0.15232E-03  732325.7 4058764.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002621         0   0.15232E-03  732325.9 4058756.3    62.2     3.40     4.00
3.16     NO                    NO
 L0002622         0   0.15232E-03  732326.2 4058747.7    62.2     3.40     4.00
3.16     NO                    NO
 L0002623         0   0.15232E-03  732326.4 4058739.1    62.2     3.40     4.00
3.16     NO                    NO
 L0002624         0   0.15232E-03  732326.6 4058730.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002625         0   0.15232E-03  732326.9 4058721.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002626         0   0.15232E-03  732327.1 4058713.3    62.3     3.40     4.00
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3.16 NO NO
L0002627 0 0.15232E-03 732327.4 4058704.7 62.3 3.40 4.00
3.16 NO NO
L0002628 0 0.15232E-03 732327.6 4058696.1 62.3 3.40 4.00
3.16 NO NO
L0002629 0 0.15232E-03 732327.8 4058687.5 62.3 3.40 4.00
3.16 NO NO
L0002630 0 0.15232E-03 732328.1 4058678.9 62.3 3.40 4.00
3.16 NO NO
L0002631 0 0.15232E-03 732328.3 4058670.3 62.3 3.40 4.00
3.16 NO NO
L0002632 0 0.15232E-03 732328.5 4058661.7 62.3 3.40 4.00
3.16 NO NO
L0002633 0 0.15232E-03 732328.8 4058653.1 62.3 3.40 4.00
3.16 NO NO
L0002634 0 0.15232E-03 732329.0 4058644.5 62.3 3.40 4.00
3.16 NO NO
L0002635 0 0.15232E-03 732329.2 4058635.9 62.3 3.40 4.00
3.16 NO NO
L0002636 0 0.15232E-03 732329.5 4058627.3 62.3 3.40 4.00
3.16 NO NO
L0002637 0 0.15232E-03 732329.7 4058618.7 62.3 3.40 4.00
3.16 NO NO
L0002638 0 0.15232E-03 732329.9 4058610.1 62.3 3.40 4.00
3.16 NO NO
L0002639 0 0.15232E-03 732330.2 4058601.6 62.3 3.40 4.00
3.16 NO NO
L0002640 0 0.15232E-03 732330.4 4058593.0 62.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE SCALAR VARY BY	AIRCRAFT
L0002641	0	0.15232E-03	732330.6	4058584.4	62.3	3.40	4.00			

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3.16     NO                    NO
 L0002642         0   0.15232E-03  732330.9 4058575.8    62.3     3.40     4.00
3.16     NO                    NO
 L0002643         0   0.15232E-03  732331.1 4058567.2    62.3     3.40     4.00
3.16     NO                    NO
 L0002644         0   0.15232E-03  732331.3 4058558.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002645         0   0.15232E-03  732331.6 4058550.0    62.3     3.40     4.00
3.16     NO                    NO
 L0002646         0   0.15232E-03  732331.8 4058541.4    62.3     3.40     4.00
3.16     NO                    NO
 L0002647         0   0.15232E-03  732332.0 4058532.8    62.3     3.40     4.00
3.16     NO                    NO
 L0002648         0   0.15232E-03  732332.3 4058524.2    62.4     3.40     4.00
3.16     NO                    NO
 L0002649         0   0.15232E-03  732332.5 4058515.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002650         0   0.15232E-03  732332.8 4058507.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002651         0   0.15232E-03  732333.0 4058498.4    62.4     3.40     4.00
3.16     NO                    NO
 L0002652         0   0.15232E-03  732333.2 4058489.8    62.4     3.40     4.00
3.16     NO                    NO
 L0002653         0   0.15232E-03  732333.5 4058481.2    62.4     3.40     4.00
3.16     NO                    NO
 L0002654         0   0.15232E-03  732333.7 4058472.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002655         0   0.15232E-03  732333.9 4058464.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002656         0   0.15232E-03  732334.2 4058455.4    62.4     3.40     4.00
3.16     NO                    NO
 L0002657         0   0.15232E-03  732334.4 4058446.8    62.4     3.40     4.00
3.16     NO                    NO
 L0002658         0   0.15232E-03  732334.6 4058438.2    62.4     3.40     4.00
3.16     NO                    NO
 L0002659         0   0.15232E-03  732334.9 4058429.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002660         0   0.15232E-03  732335.1 4058421.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002661         0   0.15232E-03  732335.3 4058412.4    62.4     3.40     4.00
3.16     NO                    NO
 L0002662         0   0.15232E-03  732335.6 4058403.8    62.4     3.40     4.00
3.16     NO                    NO
 L0002663         0   0.15232E-03  732335.8 4058395.2    62.4     3.40     4.00
3.16     NO                    NO
 L0002664         0   0.15232E-03  732336.0 4058386.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002665         0   0.15232E-03  732336.3 4058378.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002666         0   0.15232E-03  732336.5 4058369.4    62.4     3.40     4.00
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3.16     NO                     NO
 L0002667         0   0.15232E-03  732336.7 4058360.8    62.4     3.40     4.00
3.16     NO                     NO
 L0002668         0   0.15232E-03  732337.0 4058352.2    62.4     3.40     4.00
3.16     NO                     NO
 L0002669         0   0.15232E-03  732337.2 4058343.6    62.5     3.40     4.00
3.16     NO                     NO
 L0002670         0   0.15232E-03  732337.5 4058335.1    62.5     3.40     4.00
3.16     NO                     NO
 L0002671         0   0.15232E-03  732337.7 4058326.5    62.5     3.40     4.00
3.16     NO                     NO
 L0002672         0   0.15232E-03  732337.9 4058317.9    62.5     3.40     4.00
3.16     NO                     NO
 L0002673         0   0.15232E-03  732338.2 4058309.3    62.5     3.40     4.00
3.16     NO                     NO
 L0002674         0   0.15232E-03  732338.4 4058300.7    62.5     3.40     4.00
3.16     NO                     NO
 L0002675         0   0.15232E-03  732338.6 4058292.1    62.5     3.40     4.00
3.16     NO                     NO
 L0002676         0   0.15232E-03  732338.9 4058283.5    62.5     3.40     4.00
3.16     NO                     NO
 L0002677         0   0.15232E-03  732339.1 4058274.9    62.5     3.40     4.00
3.16     NO                     NO
 L0002678         0   0.15232E-03  732339.3 4058266.3    62.5     3.40     4.00
3.16     NO                     NO
 L0002679         0   0.15232E-03  732339.6 4058257.7    62.5     3.40     4.00
3.16     NO                     NO
 L0002680         0   0.15232E-03  732339.8 4058249.1    62.5     3.40     4.00
3.16     NO                     NO
↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0002681         0   0.15232E-03  732340.0 4058240.5    62.5     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0002683         0   0.15232E-03  732340.5 4058223.3    62.5     3.40     4.00
3.16     NO                    NO
 L0002684         0   0.15232E-03  732340.7 4058214.7    62.5     3.40     4.00
3.16     NO                    NO
 L0002685         0   0.15232E-03  732341.0 4058206.1    62.5     3.40     4.00
3.16     NO                    NO
 L0002686         0   0.15232E-03  732341.2 4058197.5    62.5     3.40     4.00
3.16     NO                    NO
 L0002687         0   0.15232E-03  732341.4 4058188.9    62.5     3.40     4.00
3.16     NO                    NO
 L0002688         0   0.15232E-03  732341.7 4058180.3    62.6     3.40     4.00
3.16     NO                    NO
 L0002689         0   0.15232E-03  732341.9 4058171.7    62.6     3.40     4.00
3.16     NO                    NO
 L0002690         0   0.15232E-03  732342.1 4058163.1    62.6     3.40     4.00
3.16     NO                    NO
 L0002691         0   0.15232E-03  732342.4 4058154.5    62.6     3.40     4.00
3.16     NO                    NO
 L0002692         0   0.15232E-03  732342.6 4058145.9    62.6     3.40     4.00
3.16     NO                    NO
 L0002693         0   0.15232E-03  732342.9 4058137.3    62.6     3.40     4.00
3.16     NO                    NO
 L0002694         0   0.15232E-03  732343.1 4058128.7    62.6     3.40     4.00
3.16     NO                    NO
 L0002695         0   0.15232E-03  732343.3 4058120.1    62.6     3.40     4.00
3.16     NO                    NO
 L0002696         0   0.15232E-03  732343.6 4058111.5    62.6     3.40     4.00
3.16     NO                    NO
 L0002697         0   0.15232E-03  732343.8 4058102.9    62.6     3.40     4.00
3.16     NO                    NO
 L0002698         0   0.15232E-03  732344.0 4058094.3    62.6     3.40     4.00
3.16     NO                    NO
 L0002699         0   0.15232E-03  732344.3 4058085.7    62.6     3.40     4.00
3.16     NO                    NO
 L0002700         0   0.15232E-03  732344.5 4058077.1    62.6     3.40     4.00
3.16     NO                    NO
 L0002701         0   0.15232E-03  732344.7 4058068.5    62.6     3.40     4.00
3.16     NO                    NO
 L0002702         0   0.15232E-03  732345.0 4058060.0    62.6     3.40     4.00
3.16     NO                    NO
 L0002703         0   0.15232E-03  732345.2 4058051.4    62.6     3.40     4.00
3.16     NO                    NO
 L0002704         0   0.15232E-03  732345.4 4058042.8    62.6     3.40     4.00
3.16     NO                    NO
 L0002705         0   0.15232E-03  732345.7 4058034.2    62.6     3.40     4.00
3.16     NO                    NO
 L0002706         0   0.15232E-03  732345.9 4058025.6    62.6     3.40     4.00
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3.16 NO NO
L0002707 0 0.15232E-03 732346.1 4058017.0 62.6 3.40 4.00
3.16 NO NO
L0002708 0 0.15232E-03 732346.4 4058008.4 62.7 3.40 4.00
3.16 NO NO
L0002709 0 0.15232E-03 732346.6 4057999.8 62.7 3.40 4.00
3.16 NO NO
L0002710 0 0.15232E-03 732346.8 4057991.2 62.7 3.40 4.00
3.16 NO NO
L0002711 0 0.15232E-03 732347.1 4057982.6 62.7 3.40 4.00
3.16 NO NO
L0002712 0 0.15232E-03 732347.3 4057974.0 62.7 3.40 4.00
3.16 NO NO
L0002713 0 0.15232E-03 732347.6 4057965.4 62.7 3.40 4.00
3.16 NO NO
L0002714 0 0.15232E-03 732347.8 4057956.8 62.7 3.40 4.00
3.16 NO NO
L0002715 0 0.15232E-03 732348.0 4057948.2 62.7 3.40 4.00
3.16 NO NO
L0002716 0 0.15232E-03 732348.3 4057939.6 62.7 3.40 4.00
3.16 NO NO
L0002717 0 0.15232E-03 732348.5 4057931.0 62.7 3.40 4.00
3.16 NO NO
L0002718 0 0.15232E-03 732348.7 4057922.4 62.7 3.40 4.00
3.16 NO NO
L0002719 0 0.15232E-03 732349.0 4057913.8 62.7 3.40 4.00
3.16 NO NO
L0002720 0 0.15232E-03 732349.2 4057905.2 62.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0002721	0	0.15232E-03	732349.4	4057896.6	62.7	3.40	4.00			

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3.16     NO                    NO
 L0002722         0   0.15232E-03  732349.7 4057888.0    62.7     3.40     4.00
3.16     NO                    NO
 L0002723         0   0.15232E-03  732349.9 4057879.4    62.7     3.40     4.00
3.16     NO                    NO
 L0002724         0   0.15232E-03  732350.1 4057870.8    62.7     3.40     4.00
3.16     NO                    NO
 L0002725         0   0.15232E-03  732350.4 4057862.2    62.8     3.40     4.00
3.16     NO                    NO
 L0002726         0   0.15232E-03  732350.6 4057853.6    62.8     3.40     4.00
3.16     NO                    NO
 L0002727         0   0.15232E-03  732350.8 4057845.0    62.8     3.40     4.00
3.16     NO                    NO
 L0002728         0   0.15232E-03  732351.1 4057836.4    62.8     3.40     4.00
3.16     NO                    NO
 L0002729         0   0.15232E-03  732351.3 4057827.8    62.8     3.40     4.00
3.16     NO                    NO
 L0002730         0   0.15232E-03  732351.5 4057819.2    62.8     3.40     4.00
3.16     NO                    NO
 L0002731         0   0.15232E-03  732351.8 4057810.6    62.8     3.40     4.00
3.16     NO                    NO
 L0002732         0   0.15232E-03  732352.0 4057802.0    62.8     3.40     4.00
3.16     NO                    NO
 L0002733         0   0.15232E-03  732352.2 4057793.5    62.8     3.40     4.00
3.16     NO                    NO
 L0002734         0   0.15232E-03  732352.5 4057784.9    62.8     3.40     4.00
3.16     NO                    NO
 L0002735         0   0.15232E-03  732352.7 4057776.3    62.8     3.40     4.00
3.16     NO                    NO
 L0002736         0   0.15232E-03  732353.0 4057767.7    62.8     3.40     4.00
3.16     NO                    NO
 L0002737         0   0.15232E-03  732353.2 4057759.1    62.8     3.40     4.00
3.16     NO                    NO
 L0002738         0   0.15232E-03  732353.4 4057750.5    62.8     3.40     4.00
3.16     NO                    NO
 L0002739         0   0.15232E-03  732353.7 4057741.9    62.8     3.40     4.00
3.16     NO                    NO
 L0002740         0   0.15232E-03  732353.9 4057733.3    62.8     3.40     4.00
3.16     NO                    NO
 L0002741         0   0.15232E-03  732354.1 4057724.7    62.8     3.40     4.00
3.16     NO                    NO
 L0002742         0   0.15232E-03  732354.4 4057716.1    62.8     3.40     4.00
3.16     NO                    NO
 L0002743         0   0.15232E-03  732354.6 4057707.5    62.8     3.40     4.00
3.16     NO                    NO
 L0002744         0   0.15232E-03  732354.8 4057698.9    62.8     3.40     4.00
3.16     NO                    NO
 L0002745         0   0.15232E-03  732355.1 4057690.3    62.8     3.40     4.00
3.16     NO                    NO
 L0002746         0   0.15232E-03  732355.3 4057681.7    62.9     3.40     4.00
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3.16   NO   NO
 L0002747   0   0.15232E-03 732355.5 4057673.1   62.9   3.40   4.00
3.16   NO   NO
 L0002748   0   0.15232E-03 732355.8 4057664.5   62.9   3.40   4.00
3.16   NO   NO
 L0002749   0   0.15232E-03 732356.0 4057655.9   62.9   3.40   4.00
3.16   NO   NO
 L0002750   0   0.15232E-03 732356.2 4057647.3   62.9   3.40   4.00
3.16   NO   NO
 L0002751   0   0.15232E-03 732361.8 4057644.5   62.9   3.40   4.00
3.16   NO   NO
 L0002752   0   0.15232E-03 732370.4 4057645.1   62.9   3.40   4.00
3.16   NO   NO
 L0002753   0   0.15232E-03 732379.0 4057645.7   62.8   3.40   4.00
3.16   NO   NO
 L0002754   0   0.15232E-03 732387.5 4057646.2   62.8   3.40   4.00
3.16   NO   NO
 L0002755   0   0.15232E-03 732396.1 4057646.8   62.8   3.40   4.00
3.16   NO   NO
 L0002756   0   0.15232E-03 732404.7 4057647.4   62.8   3.40   4.00
3.16   NO   NO
 L0002757   0   0.15232E-03 732413.3 4057647.9   62.8   3.40   4.00
3.16   NO   NO
 L0002758   0   0.15232E-03 732421.9 4057648.5   62.8   3.40   4.00
3.16   NO   NO
 L0002759   0   0.15232E-03 732430.4 4057649.1   62.7   3.40   4.00
3.16   NO   NO
 L0002760   0   0.15232E-03 732439.0 4057649.6   62.7   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0002761   0   0.15232E-03 732447.6 4057650.2   62.7   3.40   4.00

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3.16     NO                    NO
 L0002762         0   0.15232E-03  732456.2 4057650.8    62.6     3.40     4.00
3.16     NO                    NO
 L0002763         0   0.15232E-03  732464.8 4057651.3    62.6     3.40     4.00
3.16     NO                    NO
 L0002764         0   0.15232E-03  732473.4 4057651.9    62.6     3.40     4.00
3.16     NO                    NO
 L0002765         0   0.15232E-03  732481.9 4057652.4    62.6     3.40     4.00
3.16     NO                    NO
 L0002766         0   0.15232E-03  732490.5 4057653.0    62.6     3.40     4.00
3.16     NO                    NO
 L0002767         0   0.15232E-03  732499.1 4057653.6    62.5     3.40     4.00
3.16     NO                    NO
 L0002768         0   0.15232E-03  732507.7 4057654.1    62.5     3.40     4.00
3.16     NO                    NO
 L0002769         0   0.15232E-03  732516.3 4057654.7    62.5     3.40     4.00
3.16     NO                    NO
 L0002770         0   0.15232E-03  732524.8 4057655.3    62.5     3.40     4.00
3.16     NO                    NO
 L0002771         0   0.15232E-03  732533.4 4057655.8    62.4     3.40     4.00
3.16     NO                    NO
 L0002772         0   0.15232E-03  732542.0 4057656.4    62.4     3.40     4.00
3.16     NO                    NO
 L0002773         0   0.15232E-03  732550.6 4057657.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002774         0   0.15232E-03  732559.2 4057657.5    62.4     3.40     4.00
3.16     NO                    NO
 L0002775         0   0.15232E-03  732567.7 4057658.1    62.4     3.40     4.00
3.16     NO                    NO
 L0002776         0   0.15232E-03  732576.3 4057658.7    62.3     3.40     4.00
3.16     NO                    NO
 L0002777         0   0.15232E-03  732584.9 4057659.2    62.3     3.40     4.00
3.16     NO                    NO
 L0002778         0   0.15232E-03  732593.5 4057659.8    62.3     3.40     4.00
3.16     NO                    NO
 L0002779         0   0.15232E-03  732602.1 4057660.4    62.2     3.40     4.00
3.16     NO                    NO
 L0002780         0   0.15232E-03  732610.7 4057660.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002781         0   0.15232E-03  732619.2 4057661.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002782         0   0.15232E-03  732627.8 4057662.0    62.2     3.40     4.00
3.16     NO                    NO
 L0002783         0   0.15232E-03  732636.4 4057662.6    62.2     3.40     4.00
3.16     NO                    NO
 L0002784         0   0.15232E-03  732645.0 4057663.2    62.2     3.40     4.00
3.16     NO                    NO
 L0002785         0   0.15232E-03  732653.6 4057663.7    62.1     3.40     4.00
3.16     NO                    NO
 L0002786         0   0.15232E-03  732662.1 4057664.3    62.1     3.40     4.00
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3.16   NO   NO
 L0002787   0   0.15232E-03 732670.7 4057664.9   62.1   3.40   4.00
3.16   NO   NO
 L0002788   0   0.15232E-03 732679.3 4057665.4   62.1   3.40   4.00
3.16   NO   NO
 L0002789   0   0.15232E-03 732687.9 4057666.0   62.1   3.40   4.00
3.16   NO   NO
 L0002790   0   0.15232E-03 732696.5 4057666.6   62.0   3.40   4.00
3.16   NO   NO
 L0002791   0   0.15232E-03 732705.1 4057667.1   62.0   3.40   4.00
3.16   NO   NO
 L0002792   0   0.15232E-03 732713.6 4057667.7   62.0   3.40   4.00
3.16   NO   NO
 L0002793   0   0.15232E-03 732722.2 4057668.3   61.9   3.40   4.00
3.16   NO   NO
 L0002794   0   0.15232E-03 732730.8 4057668.8   61.9   3.40   4.00
3.16   NO   NO
 L0002795   0   0.15232E-03 732739.4 4057669.4   61.9   3.40   4.00
3.16   NO   NO
 L0002796   0   0.15232E-03 732748.0 4057670.0   61.9   3.40   4.00
3.16   NO   NO
 L0002797   0   0.15232E-03 732756.5 4057670.5   61.9   3.40   4.00
3.16   NO   NO
 L0002798   0   0.15232E-03 732765.1 4057671.1   61.9   3.40   4.00
3.16   NO   NO
 L0002799   0   0.15232E-03 732773.7 4057671.6   61.8   3.40   4.00
3.16   NO   NO
 L0002800   0   0.15232E-03 732782.3 4057672.2   61.8   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0002801   0   0.15232E-03 732790.9 4057672.8   61.8   3.40   4.00

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3.16     NO                    NO
 L0002802         0   0.15232E-03  732799.4 4057673.3    61.8     3.40     4.00
3.16     NO                    NO
 L0002803         0   0.15232E-03  732808.0 4057673.9    61.8     3.40     4.00
3.16     NO                    NO
 L0002804         0   0.15232E-03  732816.6 4057674.5    61.7     3.40     4.00
3.16     NO                    NO
 L0002805         0   0.15232E-03  732825.2 4057675.0    61.7     3.40     4.00
3.16     NO                    NO
 L0002806         0   0.15232E-03  732833.8 4057675.6    61.7     3.40     4.00
3.16     NO                    NO
 L0002807         0   0.15232E-03  732842.4 4057676.2    61.7     3.40     4.00
3.16     NO                    NO
 L0002808         0   0.15232E-03  732850.9 4057676.7    61.6     3.40     4.00
3.16     NO                    NO
 L0002809         0   0.15232E-03  732859.5 4057677.3    61.6     3.40     4.00
3.16     NO                    NO
 L0002810         0   0.15232E-03  732868.1 4057677.9    61.6     3.40     4.00
3.16     NO                    NO
 L0002811         0   0.15232E-03  732876.7 4057678.4    61.5     3.40     4.00
3.16     NO                    NO
 L0002812         0   0.15232E-03  732885.3 4057679.0    61.5     3.40     4.00
3.16     NO                    NO
 L0002813         0   0.15232E-03  732893.8 4057679.5    61.5     3.40     4.00
3.16     NO                    NO
 L0002814         0   0.15232E-03  732902.4 4057680.1    61.5     3.40     4.00
3.16     NO                    NO
 L0002815         0   0.15232E-03  732911.0 4057680.7    61.4     3.40     4.00
3.16     NO                    NO
 L0002816         0   0.15232E-03  732919.6 4057681.2    61.4     3.40     4.00
3.16     NO                    NO
 L0002817         0   0.15232E-03  732928.2 4057681.8    61.4     3.40     4.00
3.16     NO                    NO
 L0002818         0   0.15232E-03  732936.8 4057682.4    61.4     3.40     4.00
3.16     NO                    NO
 L0002819         0   0.15232E-03  732945.3 4057682.9    61.3     3.40     4.00
3.16     NO                    NO
 L0002820         0   0.15232E-03  732953.9 4057683.5    61.3     3.40     4.00
3.16     NO                    NO
 L0002821         0   0.15232E-03  732962.5 4057684.1    61.3     3.40     4.00
3.16     NO                    NO
 L0002822         0   0.15232E-03  732971.1 4057684.6    61.2     3.40     4.00
3.16     NO                    NO
 L0002823         0   0.15232E-03  732979.7 4057685.2    61.2     3.40     4.00
3.16     NO                    NO
 L0002824         0   0.15232E-03  732988.2 4057685.8    61.2     3.40     4.00
3.16     NO                    NO
 L0002825         0   0.15232E-03  732996.8 4057686.3    61.2     3.40     4.00
3.16     NO                    NO
 L0002826         0   0.15232E-03  733005.4 4057686.9    61.2     3.40     4.00
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3.16     NO                     NO
 L0002827         0   0.15232E-03  733014.0 4057687.5    61.2     3.40     4.00
3.16     NO                     NO
 L0002828         0   0.15232E-03  733014.7 4057695.2    61.2     3.40     4.00
3.16     NO                     NO
 L0002829         0   0.15232E-03  733014.5 4057703.8    61.1     3.40     4.00
3.16     NO                     NO
 L0002830         0   0.15232E-03  733014.3 4057712.4    61.1     3.40     4.00
3.16     NO                     NO
 L0002831         0   0.15232E-03  733014.1 4057721.0    61.1     3.40     4.00
3.16     NO                     NO
 L0002832         0   0.15232E-03  733013.9 4057729.6    61.1     3.40     4.00
3.16     NO                     NO
 L0002833         0   0.15232E-03  733013.8 4057738.2    61.1     3.40     4.00
3.16     NO                     NO
 L0002834         0   0.15232E-03  733013.6 4057746.8    61.1     3.40     4.00
3.16     NO                     NO
 L0002835         0   0.15232E-03  733013.4 4057755.4    61.1     3.40     4.00
3.16     NO                     NO
 L0002836         0   0.15232E-03  733013.2 4057764.0    61.1     3.40     4.00
3.16     NO                     NO
 L0002837         0   0.15232E-03  733013.0 4057772.6    61.1     3.40     4.00
3.16     NO                     NO
 L0002838         0   0.15232E-03  733012.8 4057781.2    61.1     3.40     4.00
3.16     NO                     NO
 L0002839         0   0.15232E-03  733012.6 4057789.8    61.1     3.40     4.00
3.16     NO                     NO
 L0002840         0   0.15232E-03  733012.4 4057798.4    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0002841         0   0.15232E-03  733012.2 4057807.0    61.1     3.40     4.00
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3.16     NO                    NO
 L0002842         0   0.15232E-03  733012.0 4057815.6    61.1     3.40     4.00
3.16     NO                    NO
 L0002843         0   0.15232E-03  733011.8 4057824.2    61.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002847         0   0.15232E-03  733011.1 4057858.6    61.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002854         0   0.15232E-03  733009.8 4057918.8    61.0     3.40     4.00
3.16     NO                    NO
 L0002855         0   0.15232E-03  733009.6 4057927.4    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002857         0   0.15232E-03  733009.2 4057944.6    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002866         0   0.15232E-03  733007.5 4058021.9    61.0     3.40     4.00
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0002875         0   0.15232E-03  733005.8 4058099.3    60.9     3.40     4.00
3.16     NO                     NO
 L0002876         0   0.15232E-03  733005.6 4058107.9    60.9     3.40     4.00
3.16     NO                     NO
 L0002877         0   0.15232E-03  733005.4 4058116.5    60.9     3.40     4.00
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3.16     NO                     NO
 L0002879         0   0.15232E-03  733005.0 4058133.7    60.9     3.40     4.00
3.16     NO                     NO
 L0002880         0   0.15232E-03  733004.8 4058142.3    60.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0002881         0   0.15232E-03  733004.6 4058150.9    60.9     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002886         0   0.15232E-03  733003.7 4058193.9    60.9     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16 NO NO
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3.16 NO NO
L0002919 0 0.15232E-03 732997.4 4058477.6 60.8 3.40 4.00
3.16 NO NO
L0002920 0 0.15232E-03 732997.2 4058486.2 60.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0002921	0	0.15232E-03	732997.0	4058494.8	60.7	3.40	4.00			

3.16 NO NO
L0002922 0 0.15232E-03 732996.8 4058503.4 60.7 3.40 4.00
3.16 NO NO
L0002923 0 0.15232E-03 732996.6 4058512.0 60.7 3.40 4.00
3.16 NO NO
L0002924 0 0.15232E-03 732996.4 4058520.6 60.7 3.40 4.00
3.16 NO NO
L0002925 0 0.15232E-03 732996.2 4058529.2 60.7 3.40 4.00
3.16 NO NO
L0002926 0 0.15232E-03 732996.0 4058537.8 60.7 3.40 4.00
3.16 NO NO
L0002927 0 0.15232E-03 732995.9 4058546.4 60.7 3.40 4.00
3.16 NO NO
L0002928 0 0.15232E-03 732995.7 4058555.0 60.7 3.40 4.00
3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
L0002945 0 0.15232E-03 732992.4 4058701.2 60.6 3.40 4.00
3.16 NO NO
L0002946 0 0.15232E-03 732992.2 4058709.8 60.6 3.40 4.00

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3.16     NO                     NO
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3.16     NO                     NO
 L0002948         0   0.15232E-03  732991.9 4058727.0    60.6     3.40     4.00
3.16     NO                     NO
 L0002949         0   0.15232E-03  732991.7 4058735.6    60.6     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0002953         0   0.15232E-03  732990.9 4058770.0    60.5     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0002958         0   0.15232E-03  732990.0 4058812.9    60.5     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0002960         0   0.15232E-03  732989.6 4058830.1    60.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0002961         0   0.15232E-03  732989.4 4058838.7    60.5     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0002964         0   0.15232E-03  732988.8 4058864.5    60.5     3.40     4.00
3.16     NO                    NO
 L0002965         0   0.15232E-03  732988.6 4058873.1    60.5     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002967         0   0.15232E-03  732988.2 4058890.3    60.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002972         0   0.15232E-03  732987.3 4058933.3    60.4     3.40     4.00
3.16     NO                    NO
 L0002973         0   0.15232E-03  732987.1 4058941.9    60.4     3.40     4.00
3.16     NO                    NO
 L0002974         0   0.15232E-03  732986.9 4058950.5    60.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002984         0   0.15232E-03  732985.0 4059036.5    60.3     3.40     4.00
3.16     NO                    NO
 L0002985         0   0.15232E-03  732984.8 4059045.1    60.3     3.40     4.00
3.16     NO                    NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0003000         0   0.15232E-03  732982.0 4059174.1    60.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0003001         0   0.15232E-03  732981.8 4059182.7    60.1     3.40     4.00
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3.16     NO                    NO
 L0003002         0   0.15232E-03  732981.6 4059191.2    60.1     3.40     4.00
3.16     NO                    NO
 L0003003         0   0.15232E-03  732981.4 4059199.8    60.1     3.40     4.00
3.16     NO                    NO
 L0003004         0   0.15232E-03  732981.2 4059208.4    60.1     3.40     4.00
3.16     NO                    NO
 L0003005         0   0.15232E-03  732981.0 4059217.0    60.1     3.40     4.00
3.16     NO                    NO
 L0003006         0   0.15232E-03  732980.8 4059225.6    60.1     3.40     4.00
3.16     NO                    NO
 L0003007         0   0.15232E-03  732980.6 4059234.2    60.1     3.40     4.00
3.16     NO                    NO
 L0003008         0   0.15232E-03  732980.4 4059242.8    60.1     3.40     4.00
3.16     NO                    NO
 L0003009         0   0.15232E-03  732980.2 4059251.4    60.1     3.40     4.00
3.16     NO                    NO
 L0003010         0   0.15232E-03  732980.1 4059260.0    60.1     3.40     4.00
3.16     NO                    NO
 L0003011         0   0.15232E-03  732979.9 4059268.6    60.1     3.40     4.00
3.16     NO                    NO
 L0003012         0   0.15232E-03  732979.7 4059277.2    60.1     3.40     4.00
3.16     NO                    NO
 L0003013         0   0.15232E-03  732979.5 4059285.8    60.1     3.40     4.00
3.16     NO                    NO
 L0003014         0   0.15232E-03  732979.3 4059294.4    60.1     3.40     4.00
3.16     NO                    NO
 L0003015         0   0.15232E-03  732979.1 4059303.0    60.1     3.40     4.00
3.16     NO                    NO
 L0003016         0   0.15232E-03  732978.9 4059311.6    60.1     3.40     4.00
3.16     NO                    NO
 L0003017         0   0.15232E-03  732978.7 4059320.2    60.1     3.40     4.00
3.16     NO                    NO
 L0003018         0   0.15232E-03  732978.5 4059328.8    60.0     3.40     4.00
3.16     NO                    NO
 L0003019         0   0.15232E-03  732978.3 4059337.4    60.0     3.40     4.00
3.16     NO                    NO
 L0003020         0   0.15232E-03  732978.2 4059346.0    60.0     3.40     4.00
3.16     NO                    NO
 L0003021         0   0.15232E-03  732978.0 4059354.6    60.0     3.40     4.00
3.16     NO                    NO
 L0003022         0   0.15232E-03  732977.8 4059363.2    60.0     3.40     4.00
3.16     NO                    NO
 L0003023         0   0.15232E-03  732977.6 4059371.8    60.0     3.40     4.00
3.16     NO                    NO
 L0003024         0   0.15232E-03  732977.4 4059380.4    60.0     3.40     4.00
3.16     NO                    NO
 L0003025         0   0.15232E-03  732977.2 4059389.0    60.0     3.40     4.00
3.16     NO                    NO
 L0003026         0   0.15232E-03  732977.0 4059397.6    60.0     3.40     4.00
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3.16     NO                     NO
 L0003027         0   0.15232E-03  732976.8 4059406.2    60.0     3.40     4.00
3.16     NO                     NO
 L0003028         0   0.15232E-03  732976.6 4059414.8    60.0     3.40     4.00
3.16     NO                     NO
 L0003029         0   0.15232E-03  732976.4 4059423.4    60.0     3.40     4.00
3.16     NO                     NO
 L0003030         0   0.15232E-03  732976.3 4059432.0    60.0     3.40     4.00
3.16     NO                     NO
 L0003031         0   0.15232E-03  732976.1 4059440.6    60.0     3.40     4.00
3.16     NO                     NO
 L0003032         0   0.15232E-03  732975.9 4059449.2    60.0     3.40     4.00
3.16     NO                     NO
 L0003033         0   0.15232E-03  732975.7 4059457.8    60.0     3.40     4.00
3.16     NO                     NO
 L0003034         0   0.15232E-03  732975.5 4059466.4    60.0     3.40     4.00
3.16     NO                     NO
 L0003035         0   0.15232E-03  732975.3 4059475.0    60.0     3.40     4.00
3.16     NO                     NO
 L0003036         0   0.15232E-03  732975.1 4059483.6    60.0     3.40     4.00
3.16     NO                     NO
 L0003037         0   0.15232E-03  732974.9 4059492.2    60.0     3.40     4.00
3.16     NO                     NO
 L0003038         0   0.15232E-03  732974.7 4059500.8    60.0     3.40     4.00
3.16     NO                     NO
 L0003039         0   0.15232E-03  732974.5 4059509.4    60.0     3.40     4.00
3.16     NO                     NO
 L0003040         0   0.15232E-03  732974.3 4059518.0    60.0     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0003041	0	0.15232E-03	732974.2	4059526.6	60.0	3.40	4.00			

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3.16     NO                    NO
 L0003042         0   0.15232E-03  732974.0 4059535.2    60.0     3.40     4.00
3.16     NO                    NO
 L0003043         0   0.15232E-03  732973.8 4059543.8    60.0     3.40     4.00
3.16     NO                    NO
 L0003044         0   0.15232E-03  732973.6 4059552.4    60.0     3.40     4.00
3.16     NO                    NO
 L0003045         0   0.15232E-03  732973.4 4059561.0    60.0     3.40     4.00
3.16     NO                    NO
 L0003046         0   0.15232E-03  732973.2 4059569.6    60.0     3.40     4.00
3.16     NO                    NO
 L0003047         0   0.15232E-03  732973.0 4059578.2    60.0     3.40     4.00
3.16     NO                    NO
 L0003048         0   0.15232E-03  732972.8 4059586.8    60.0     3.40     4.00
3.16     NO                    NO
 L0003049         0   0.15232E-03  732972.6 4059595.3    60.0     3.40     4.00
3.16     NO                    NO
 L0003050         0   0.15232E-03  732972.4 4059603.9    60.0     3.40     4.00
3.16     NO                    NO
 L0003051         0   0.15232E-03  732972.3 4059612.5    60.0     3.40     4.00
3.16     NO                    NO
 L0003052         0   0.15232E-03  732972.1 4059621.1    60.0     3.40     4.00
3.16     NO                    NO
 L0003053         0   0.15232E-03  732971.9 4059629.7    60.0     3.40     4.00
3.16     NO                    NO
 L0003054         0   0.15232E-03  732971.7 4059638.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003055         0   0.15232E-03  732971.5 4059646.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003056         0   0.15232E-03  732971.3 4059655.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003057         0   0.15232E-03  732971.1 4059664.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003058         0   0.15232E-03  732970.9 4059672.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003059         0   0.15232E-03  732970.7 4059681.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003060         0   0.15232E-03  732970.5 4059689.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003061         0   0.15232E-03  732970.4 4059698.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003062         0   0.15232E-03  732970.2 4059707.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003063         0   0.15232E-03  732970.0 4059715.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003064         0   0.15232E-03  732969.8 4059724.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003065         0   0.15232E-03  732969.6 4059732.9    60.0     3.40     4.00
3.16     NO                    NO
 L0003066         0   0.15232E-03  732969.4 4059741.5    60.0     3.40     4.00
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3.16     NO                     NO
 L0003067         0   0.15232E-03  732969.2 4059750.1    60.0     3.40     4.00
3.16     NO                     NO
 L0003068         0   0.15232E-03  732969.0 4059758.7    60.0     3.40     4.00
3.16     NO                     NO
 L0003069         0   0.15232E-03  732968.8 4059767.3    60.0     3.40     4.00
3.16     NO                     NO
 L0003070         0   0.15232E-03  732968.6 4059775.9    60.0     3.40     4.00
3.16     NO                     NO
 L0003071         0   0.15232E-03  732968.4 4059784.5    60.0     3.40     4.00
3.16     NO                     NO
 L0003072         0   0.15232E-03  732968.3 4059793.1    60.0     3.40     4.00
3.16     NO                     NO
 L0003073         0   0.15232E-03  732968.1 4059801.7    60.0     3.40     4.00
3.16     NO                     NO
 L0003074         0   0.15232E-03  732967.9 4059810.3    60.0     3.40     4.00
3.16     NO                     NO
 L0003075         0   0.15232E-03  732967.7 4059818.9    60.0     3.40     4.00
3.16     NO                     NO
 L0003076         0   0.15232E-03  732967.5 4059827.5    60.0     3.40     4.00
3.16     NO                     NO
 L0003077         0   0.15232E-03  732967.3 4059836.1    60.0     3.40     4.00
3.16     NO                     NO
 L0003078         0   0.15232E-03  732967.1 4059844.7    60.0     3.40     4.00
3.16     NO                     NO
 L0003079         0   0.15232E-03  732966.9 4059853.3    59.9     3.40     4.00
3.16     NO                     NO
 L0003080         0   0.15232E-03  732966.7 4059861.9    59.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0003081         0   0.15232E-03  732966.5 4059870.5    59.9     3.40     4.00
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3.16     NO                    NO
 L0003082         0   0.15232E-03  732966.4 4059879.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003083         0   0.15232E-03  732966.2 4059887.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003084         0   0.15232E-03  732966.0 4059896.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003085         0   0.15232E-03  732965.8 4059904.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003086         0   0.15232E-03  732965.6 4059913.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003087         0   0.15232E-03  732965.4 4059922.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003088         0   0.15232E-03  732965.2 4059930.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003089         0   0.15232E-03  732965.0 4059939.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003090         0   0.15232E-03  732964.8 4059947.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003091         0   0.15232E-03  732964.6 4059956.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003092         0   0.15232E-03  732964.5 4059965.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003093         0   0.15232E-03  732964.3 4059973.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003094         0   0.15232E-03  732964.1 4059982.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003095         0   0.15232E-03  732963.9 4059990.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003096         0   0.15232E-03  732963.7 4059999.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003097         0   0.15232E-03  732963.5 4060008.0    59.9     3.40     4.00
3.16     NO                    NO
 L0003098         0   0.15232E-03  732963.3 4060016.6    59.9     3.40     4.00
3.16     NO                    NO
 L0003099         0   0.15232E-03  732963.1 4060025.2    59.9     3.40     4.00
3.16     NO                    NO
 L0003100         0   0.15232E-03  732962.9 4060033.8    59.9     3.40     4.00
3.16     NO                    NO
 L0003101         0   0.15232E-03  732956.2 4060035.6    59.9     3.40     4.00
3.16     NO                    NO
 L0003102         0   0.15232E-03  732947.6 4060035.3    60.0     3.40     4.00
3.16     NO                    NO
 L0003103         0   0.15232E-03  732939.0 4060035.1    60.0     3.40     4.00
3.16     NO                    NO
 L0003104         0   0.15232E-03  732930.4 4060034.9    60.0     3.40     4.00
3.16     NO                    NO
 L0003105         0   0.15232E-03  732921.8 4060034.7    60.0     3.40     4.00
3.16     NO                    NO
 L0003106         0   0.15232E-03  732913.2 4060034.4    60.0     3.40     4.00
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3.16   NO   NO
 L0003107   0   0.15232E-03 732904.6 4060034.2   60.1   3.40   4.00
3.16   NO   NO
 L0003108   0   0.15232E-03 732896.0 4060034.0   60.1   3.40   4.00
3.16   NO   NO
 L0003109   0   0.15232E-03 732887.4 4060033.7   60.1   3.40   4.00
3.16   NO   NO
 L0003110   0   0.15232E-03 732878.8 4060033.5   60.1   3.40   4.00
3.16   NO   NO
 L0003111   0   0.15232E-03 732870.2 4060033.3   60.1   3.40   4.00
3.16   NO   NO
 L0003112   0   0.15232E-03 732861.6 4060033.1   60.1   3.40   4.00
3.16   NO   NO
 L0003113   0   0.15232E-03 732853.0 4060032.8   60.2   3.40   4.00
3.16   NO   NO
 L0003114   0   0.15232E-03 732844.4 4060032.6   60.2   3.40   4.00
3.16   NO   NO
 L0003115   0   0.15232E-03 732835.8 4060032.4   60.2   3.40   4.00
3.16   NO   NO
 L0003116   0   0.15232E-03 732827.2 4060032.1   60.2   3.40   4.00
3.16   NO   NO
 L0003117   0   0.15232E-03 732818.6 4060031.9   60.2   3.40   4.00
3.16   NO   NO
 L0003118   0   0.15232E-03 732810.1 4060031.7   60.2   3.40   4.00
3.16   NO   NO
 L0003119   0   0.15232E-03 732801.5 4060031.4   60.2   3.40   4.00
3.16   NO   NO
 L0003120   0   0.15232E-03 732792.9 4060031.2   60.3   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0003121   0   0.15232E-03 732784.3 4060031.0   60.3   3.40   4.00

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3.16     NO                    NO
 L0003122         0   0.15232E-03  732775.7 4060030.8    60.3     3.40     4.00
3.16     NO                    NO
 L0003123         0   0.15232E-03  732767.1 4060030.5    60.3     3.40     4.00
3.16     NO                    NO
 L0003124         0   0.15232E-03  732758.5 4060030.3    60.3     3.40     4.00
3.16     NO                    NO
 L0003125         0   0.15232E-03  732749.9 4060030.1    60.4     3.40     4.00
3.16     NO                    NO
 L0003126         0   0.15232E-03  732741.3 4060029.8    60.4     3.40     4.00
3.16     NO                    NO
 L0003127         0   0.15232E-03  732732.7 4060029.6    60.4     3.40     4.00
3.16     NO                    NO
 L0003128         0   0.15232E-03  732724.1 4060029.4    60.5     3.40     4.00
3.16     NO                    NO
 L0003129         0   0.15232E-03  732715.5 4060029.2    60.5     3.40     4.00
3.16     NO                    NO
 L0003130         0   0.15232E-03  732706.9 4060028.9    60.5     3.40     4.00
3.16     NO                    NO
 L0003131         0   0.15232E-03  732698.3 4060028.7    60.6     3.40     4.00
3.16     NO                    NO
 L0003132         0   0.15232E-03  732689.7 4060028.5    60.6     3.40     4.00
3.16     NO                    NO
 L0003133         0   0.15232E-03  732681.1 4060028.2    60.6     3.40     4.00
3.16     NO                    NO
 L0003134         0   0.15232E-03  732672.5 4060028.0    60.6     3.40     4.00
3.16     NO                    NO
 L0003135         0   0.15232E-03  732663.9 4060027.8    60.6     3.40     4.00
3.16     NO                    NO
 L0003136         0   0.15232E-03  732655.3 4060027.6    60.7     3.40     4.00
3.16     NO                    NO
 L0003137         0   0.15232E-03  732646.7 4060027.3    60.7     3.40     4.00
3.16     NO                    NO
 L0003138         0   0.15232E-03  732638.1 4060027.1    60.7     3.40     4.00
3.16     NO                    NO
 L0003139         0   0.15232E-03  732629.5 4060026.9    60.8     3.40     4.00
3.16     NO                    NO
 L0003140         0   0.15232E-03  732620.9 4060026.6    60.8     3.40     4.00
3.16     NO                    NO
 L0003141         0   0.15232E-03  732612.3 4060026.4    60.8     3.40     4.00
3.16     NO                    NO
 L0003142         0   0.15232E-03  732603.7 4060026.2    60.9     3.40     4.00
3.16     NO                    NO
 L0003143         0   0.15232E-03  732595.1 4060025.9    60.9     3.40     4.00
3.16     NO                    NO
 L0003144         0   0.15232E-03  732586.5 4060025.7    60.9     3.40     4.00
3.16     NO                    NO
 L0003145         0   0.15232E-03  732577.9 4060025.5    61.0     3.40     4.00
3.16     NO                    NO
 L0003146         0   0.15232E-03  732569.3 4060025.3    61.0     3.40     4.00
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3.16   NO   NO
 L0003147   0   0.15232E-03 732560.7 4060025.0   61.0   3.40   4.00
3.16   NO   NO
 L0003148   0   0.15232E-03 732552.1 4060024.8   61.1   3.40   4.00
3.16   NO   NO
 L0003149   0   0.15232E-03 732543.5 4060024.6   61.1   3.40   4.00
3.16   NO   NO
 L0003150   0   0.15232E-03 732535.0 4060024.3   61.1   3.40   4.00
3.16   NO   NO
 L0003151   0   0.15232E-03 732526.4 4060024.1   61.1   3.40   4.00
3.16   NO   NO
 L0003152   0   0.15232E-03 732517.8 4060023.9   61.1   3.40   4.00
3.16   NO   NO
 L0003153   0   0.15232E-03 732509.2 4060023.7   61.1   3.40   4.00
3.16   NO   NO
 L0003154   0   0.15232E-03 732500.6 4060023.4   61.2   3.40   4.00
3.16   NO   NO
 L0003155   0   0.15232E-03 732492.0 4060023.2   61.2   3.40   4.00
3.16   NO   NO
 L0003156   0   0.15232E-03 732483.4 4060023.0   61.2   3.40   4.00
3.16   NO   NO
 L0003157   0   0.15232E-03 732474.8 4060022.7   61.3   3.40   4.00
3.16   NO   NO
 L0003158   0   0.15232E-03 732466.2 4060022.5   61.3   3.40   4.00
3.16   NO   NO
 L0003159   0   0.15232E-03 732457.6 4060022.3   61.3   3.40   4.00
3.16   NO   NO
 L0003160   0   0.15232E-03 732449.0 4060022.1   61.3   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0003161   0   0.15232E-03 732440.4 4060021.8   61.3   3.40   4.00

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3.16     NO                    NO
 L0003162         0   0.15232E-03  732431.8 4060021.6    61.4     3.40     4.00
3.16     NO                    NO
 L0003163         0   0.15232E-03  732423.2 4060021.4    61.4     3.40     4.00
3.16     NO                    NO
 L0003164         0   0.15232E-03  732414.6 4060021.1    61.4     3.40     4.00
3.16     NO                    NO
 L0003165         0   0.15232E-03  732406.0 4060020.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003166         0   0.15232E-03  732397.4 4060020.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003167         0   0.15232E-03  732388.8 4060020.4    61.5     3.40     4.00
3.16     NO                    NO
 L0003168         0   0.15232E-03  732380.2 4060020.2    61.5     3.40     4.00
3.16     NO                    NO
 L0003169         0   0.15232E-03  732371.6 4060020.0    61.5     3.40     4.00
3.16     NO                    NO
 L0003170         0   0.15232E-03  732363.0 4060019.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003171         0   0.15232E-03  732354.4 4060019.5    61.6     3.40     4.00
3.16     NO                    NO
 L0003172         0   0.15232E-03  732345.8 4060019.3    61.6     3.40     4.00
3.16     NO                    NO
 L0003173         0   0.15232E-03  732337.2 4060019.1    61.6     3.40     4.00
3.16     NO                    NO
 L0003174         0   0.15232E-03  732328.6 4060018.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003175         0   0.15232E-03  732320.0 4060018.6    61.7     3.40     4.00
3.16     NO                    NO
 L0003176         0   0.15232E-03  732311.4 4060018.4    61.7     3.40     4.00
3.16     NO                    NO
 L0003177         0   0.15232E-03  732302.8 4060018.2    61.7     3.40     4.00
3.16     NO                    NO
 L0003178         0   0.15232E-03  732294.2 4060017.9    61.7     3.40     4.00
3.16     NO                    NO
 L0003179         0   0.15232E-03  732285.6 4060017.7    61.8     3.40     4.00
3.16     NO                    NO
 L0003180         0   0.15232E-03  732277.0 4060017.5    61.8     3.40     4.00
3.16     NO                    NO
 L0003181         0   0.15232E-03  732268.4 4060017.2    61.8     3.40     4.00
3.16     NO                    NO
 L0003182         0   0.15232E-03  732259.8 4060017.0    61.8     3.40     4.00
3.16     NO                    NO
 L0003183         0   0.15232E-03  732251.3 4060016.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003184         0   0.15232E-03  732242.7 4060016.5    61.9     3.40     4.00
3.16     NO                    NO
 L0003185         0   0.15232E-03  732234.1 4060016.3    61.9     3.40     4.00
3.16     NO                    NO
 L0003186         0   0.15232E-03  732225.5 4060016.1    61.9     3.40     4.00
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3.16     NO                     NO
 L0003187         0   0.15232E-03  732216.9 4060015.9    61.9     3.40     4.00
3.16     NO                     NO
 L0003188         0   0.15232E-03  732208.3 4060015.6    62.0     3.40     4.00
3.16     NO                     NO
 L0003189         0   0.15232E-03  732199.7 4060015.4    62.0     3.40     4.00
3.16     NO                     NO
 L0003190         0   0.15232E-03  732191.1 4060015.2    62.0     3.40     4.00
3.16     NO                     NO
 L0003191         0   0.15232E-03  732182.5 4060014.9    62.1     3.40     4.00
3.16     NO                     NO
 L0003192         0   0.15232E-03  732173.9 4060014.7    62.1     3.40     4.00
3.16     NO                     NO
 L0003193         0   0.15232E-03  732165.3 4060014.5    62.1     3.40     4.00
3.16     NO                     NO
 L0003194         0   0.15232E-03  732156.7 4060014.3    62.2     3.40     4.00
3.16     NO                     NO
 L0003195         0   0.15232E-03  732148.1 4060014.0    62.2     3.40     4.00
3.16     NO                     NO
 L0003196         0   0.15232E-03  732139.5 4060013.8    62.2     3.40     4.00
3.16     NO                     NO
 L0003197         0   0.15232E-03  732130.9 4060013.6    62.3     3.40     4.00
3.16     NO                     NO
 L0003198         0   0.15232E-03  732122.3 4060013.3    62.3     3.40     4.00
3.16     NO                     NO
 L0003199         0   0.15232E-03  732113.7 4060013.1    62.3     3.40     4.00
3.16     NO                     NO
 L0003200         0   0.15232E-03  732105.1 4060012.9    62.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0003201         0   0.15232E-03  732096.5 4060012.7    62.4     3.40     4.00
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3.16     NO                    NO
 L0003202         0   0.15232E-03  732087.9 4060012.4    62.4     3.40     4.00
3.16     NO                    NO
 L0003203         0   0.15232E-03  732079.3 4060012.2    62.4     3.40     4.00
3.16     NO                    NO
 L0003204         0   0.15232E-03  732070.7 4060012.0    62.5     3.40     4.00
3.16     NO                    NO
 L0003205         0   0.15232E-03  732062.1 4060011.7    62.5     3.40     4.00
3.16     NO                    NO
 L0003206         0   0.15232E-03  732053.5 4060011.5    62.5     3.40     4.00
3.16     NO                    NO
 L0003207         0   0.15232E-03  732044.9 4060011.3    62.5     3.40     4.00
3.16     NO                    NO
 L0003208         0   0.15232E-03  732036.3 4060011.0    62.6     3.40     4.00
3.16     NO                    NO
 L0003209         0   0.15232E-03  732027.7 4060010.8    62.6     3.40     4.00
3.16     NO                    NO
 L0003210         0   0.15232E-03  732019.1 4060010.6    62.6     3.40     4.00
3.16     NO                    NO
 L0003211         0   0.15232E-03  732010.5 4060010.4    62.7     3.40     4.00
3.16     NO                    NO
 L0003212         0   0.15232E-03  732001.9 4060010.1    62.7     3.40     4.00
3.16     NO                    NO
 L0003213         0   0.15232E-03  731993.3 4060009.9    62.7     3.40     4.00
3.16     NO                    NO
 L0003214         0   0.15232E-03  731984.7 4060009.7    62.8     3.40     4.00
3.16     NO                    NO
 L0003215         0   0.15232E-03  731976.1 4060009.4    62.8     3.40     4.00
3.16     NO                    NO
 L0003216         0   0.15232E-03  731967.6 4060009.2    62.8     3.40     4.00
3.16     NO                    NO
 L0003217         0   0.15232E-03  731959.0 4060009.0    62.9     3.40     4.00
3.16     NO                    NO
 L0003218         0   0.15232E-03  731950.4 4060008.8    62.9     3.40     4.00
3.16     NO                    NO
 L0003219         0   0.15232E-03  731941.8 4060008.5    62.9     3.40     4.00
3.16     NO                    NO
 L0003220         0   0.15232E-03  731933.2 4060008.3    63.0     3.40     4.00
3.16     NO                    NO
 L0003221         0   0.15232E-03  731924.6 4060008.1    63.0     3.40     4.00
3.16     NO                    NO
 L0003222         0   0.15232E-03  731916.0 4060007.8    63.0     3.40     4.00
3.16     NO                    NO
 L0003223         0   0.15232E-03  731907.4 4060007.6    63.0     3.40     4.00
3.16     NO                    NO
 L0003224         0   0.15232E-03  731898.8 4060007.4    63.0     3.40     4.00
3.16     NO                    NO
 L0003225         0   0.15232E-03  731890.2 4060007.1    63.0     3.40     4.00
3.16     NO                    NO
 L0003226         0   0.15232E-03  731881.6 4060006.9    63.1     3.40     4.00
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3.16     NO                     NO
 L0003227         0   0.15232E-03  731873.0 4060006.7    63.1     3.40     4.00
3.16     NO                     NO
 L0003228         0   0.15232E-03  731864.4 4060006.5    63.1     3.40     4.00
3.16     NO                     NO
 L0003229         0   0.15232E-03  731855.8 4060006.2    63.2     3.40     4.00
3.16     NO                     NO
 L0003230         0   0.15232E-03  731847.2 4060006.0    63.2     3.40     4.00
3.16     NO                     NO
 L0003231         0   0.15232E-03  731838.6 4060005.8    63.2     3.40     4.00
3.16     NO                     NO
 L0003232         0   0.15232E-03  731830.0 4060005.5    63.3     3.40     4.00
3.16     NO                     NO
 L0003233         0   0.15232E-03  731821.4 4060005.3    63.3     3.40     4.00
3.16     NO                     NO
 L0003234         0   0.15232E-03  731812.8 4060005.1    63.3     3.40     4.00
3.16     NO                     NO
 L0003235         0   0.15232E-03  731804.2 4060004.9    63.3     3.40     4.00
3.16     NO                     NO
 L0003236         0   0.15232E-03  731795.6 4060004.6    63.3     3.40     4.00
3.16     NO                     NO
 L0003237         0   0.15232E-03  731787.0 4060004.4    63.4     3.40     4.00
3.16     NO                     NO
 L0003238         0   0.15232E-03  731778.4 4060004.2    63.4     3.40     4.00
3.16     NO                     NO
 L0003239         0   0.15232E-03  731769.8 4060003.9    63.4     3.40     4.00
3.16     NO                     NO
 L0003240         0   0.15232E-03  731761.2 4060003.7    63.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0003241         0   0.15232E-03  731752.6 4060003.5    63.5     3.40     4.00
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3.16     NO                    NO
 L0003242         0   0.15232E-03  731744.0 4060003.3    63.6     3.40     4.00
3.16     NO                    NO
 L0003243         0   0.15232E-03  731735.4 4060003.0    63.6     3.40     4.00
3.16     NO                    NO
 L0003244         0   0.15232E-03  731726.8 4060002.8    63.7     3.40     4.00
3.16     NO                    NO
 L0003245         0   0.15232E-03  731718.2 4060002.6    63.7     3.40     4.00
3.16     NO                    NO
 L0003246         0   0.15232E-03  731709.6 4060002.3    63.8     3.40     4.00
3.16     NO                    NO
 L0003247         0   0.15232E-03  731701.0 4060002.1    63.8     3.40     4.00
3.16     NO                    NO
 L0003248         0   0.15232E-03  731692.4 4060001.9    63.8     3.40     4.00
3.16     NO                    NO
 L0003249         0   0.15232E-03  731683.9 4060001.6    63.9     3.40     4.00
3.16     NO                    NO
 L0003250         0   0.15232E-03  731675.3 4060001.4    63.9     3.40     4.00
3.16     NO                    NO
 L0003251         0   0.15232E-03  731666.7 4060001.2    64.0     3.40     4.00
3.16     NO                    NO
 L0003252         0   0.15232E-03  731663.3 4059996.0    64.0     3.40     4.00
3.16     NO                    NO
 L0003253         0   0.15232E-03  731663.7 4059987.4    64.0     3.40     4.00
3.16     NO                    NO
 L0003254         0   0.15232E-03  731664.0 4059978.9    64.0     3.40     4.00
3.16     NO                    NO
 L0003255         0   0.15232E-03  731664.4 4059970.3    64.0     3.40     4.00
3.16     NO                    NO
 L0003256         0   0.15232E-03  731664.8 4059961.7    64.0     3.40     4.00
3.16     NO                    NO
 L0003257         0   0.15232E-03  731665.1 4059953.1    63.9     3.40     4.00
3.16     NO                    NO
 L0003258         0   0.15232E-03  731665.5 4059944.5    63.9     3.40     4.00
3.16     NO                    NO
 L0003259         0   0.15232E-03  731665.8 4059935.9    63.9     3.40     4.00
3.16     NO                    NO
 L0003260         0   0.15232E-03  731666.2 4059927.3    63.8     3.40     4.00
3.16     NO                    NO
 L0003261         0   0.15232E-03  731666.6 4059918.7    63.8     3.40     4.00
3.16     NO                    NO
 L0003262         0   0.15232E-03  731666.9 4059910.1    63.8     3.40     4.00
3.16     NO                    NO
 L0003263         0   0.15232E-03  731667.3 4059901.5    63.8     3.40     4.00
3.16     NO                    NO
 L0003264         0   0.15232E-03  731667.6 4059892.9    63.8     3.40     4.00
3.16     NO                    NO
 L0003265         0   0.15232E-03  731668.0 4059884.3    63.8     3.40     4.00
3.16     NO                    NO
 L0003266         0   0.15232E-03  731668.3 4059875.7    63.8     3.40     4.00
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3.16     NO                     NO
 L0003267         0   0.15232E-03  731668.7 4059867.2    63.8     3.40     4.00
3.16     NO                     NO
 L0003268         0   0.15232E-03  731669.1 4059858.6    63.8     3.40     4.00
3.16     NO                     NO
 L0003269         0   0.15232E-03  731669.4 4059850.0    63.8     3.40     4.00
3.16     NO                     NO
 L0003270         0   0.15232E-03  731669.8 4059841.4    63.8     3.40     4.00
3.16     NO                     NO
 L0003271         0   0.15232E-03  731670.1 4059832.8    63.8     3.40     4.00
3.16     NO                     NO
 L0003272         0   0.15232E-03  731670.5 4059824.2    63.8     3.40     4.00
3.16     NO                     NO
 L0003273         0   0.15232E-03  731670.8 4059815.6    63.8     3.40     4.00
3.16     NO                     NO
 L0003274         0   0.15232E-03  731671.2 4059807.0    63.8     3.40     4.00
3.16     NO                     NO
 L0003275         0   0.15232E-03  731671.6 4059798.4    63.8     3.40     4.00
3.16     NO                     NO
 L0003276         0   0.15232E-03  731671.9 4059789.8    63.7     3.40     4.00
3.16     NO                     NO
 L0003277         0   0.15232E-03  731672.3 4059781.2    63.7     3.40     4.00
3.16     NO                     NO
 L0003278         0   0.15232E-03  731672.6 4059772.6    63.7     3.40     4.00
3.16     NO                     NO
 L0003279         0   0.15232E-03  731673.0 4059764.0    63.7     3.40     4.00
3.16     NO                     NO
 L0003280         0   0.15232E-03  731673.4 4059755.4    63.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0003281         0   0.15232E-03  731673.7 4059746.9    63.7     3.40     4.00
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3.16     NO                    NO
 L0003282         0   0.15232E-03  731674.1 4059738.3    63.7     3.40     4.00
3.16     NO                    NO
 L0003283         0   0.15232E-03  731674.4 4059729.7    63.7     3.40     4.00
3.16     NO                    NO
 L0003284         0   0.15232E-03  731674.8 4059721.1    63.7     3.40     4.00
3.16     NO                    NO
 L0003285         0   0.15232E-03  731675.1 4059712.5    63.7     3.40     4.00
3.16     NO                    NO
 L0003286         0   0.15232E-03  731675.5 4059703.9    63.7     3.40     4.00
3.16     NO                    NO
 L0003287         0   0.15232E-03  731675.9 4059695.3    63.7     3.40     4.00
3.16     NO                    NO
 L0003288         0   0.15232E-03  731676.2 4059686.7    63.7     3.40     4.00
3.16     NO                    NO
 L0003289         0   0.15232E-03  731676.6 4059678.1    63.6     3.40     4.00
3.16     NO                    NO
 L0003290         0   0.15232E-03  731676.9 4059669.5    63.6     3.40     4.00
3.16     NO                    NO
 L0003291         0   0.15232E-03  731677.3 4059660.9    63.6     3.40     4.00
3.16     NO                    NO
 L0003292         0   0.15232E-03  731677.7 4059652.3    63.6     3.40     4.00
3.16     NO                    NO
 L0003293         0   0.15232E-03  731678.0 4059643.7    63.6     3.40     4.00
3.16     NO                    NO
 L0003294         0   0.15232E-03  731678.4 4059635.2    63.6     3.40     4.00
3.16     NO                    NO
 L0003295         0   0.15232E-03  731678.7 4059626.6    63.6     3.40     4.00
3.16     NO                    NO
 L0003296         0   0.15232E-03  731679.1 4059618.0    63.6     3.40     4.00
3.16     NO                    NO
 L0003297         0   0.15232E-03  731679.4 4059609.4    63.6     3.40     4.00
3.16     NO                    NO
 L0003298         0   0.15232E-03  731679.8 4059600.8    63.6     3.40     4.00
3.16     NO                    NO
 L0003299         0   0.15232E-03  731680.2 4059592.2    63.6     3.40     4.00
3.16     NO                    NO
 L0003300         0   0.15232E-03  731680.5 4059583.6    63.6     3.40     4.00
3.16     NO                    NO
 L0003301         0   0.15232E-03  731680.9 4059575.0    63.6     3.40     4.00
3.16     NO                    NO
 L0003302         0   0.15232E-03  731681.2 4059566.4    63.6     3.40     4.00
3.16     NO                    NO
 L0003303         0   0.15232E-03  731681.6 4059557.8    63.6     3.40     4.00
3.16     NO                    NO
 L0003304         0   0.15232E-03  731681.9 4059549.2    63.6     3.40     4.00
3.16     NO                    NO
 L0003305         0   0.15232E-03  731682.3 4059540.6    63.6     3.40     4.00
3.16     NO                    NO
 L0003306         0   0.15232E-03  731682.7 4059532.0    63.6     3.40     4.00
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0003321	0	0.15232E-03	731688.0	4059403.2	63.6	3.40	4.00				

3.16 NO NO
L0003322 0 0.15232E-03 731688.4 4059394.6 63.6 3.40 4.00
3.16 NO NO
L0003323 0 0.15232E-03 731688.7 4059386.0 63.6 3.40 4.00
3.16 NO NO
L0003324 0 0.15232E-03 731689.1 4059377.4 63.6 3.40 4.00
3.16 NO NO
L0003325 0 0.15232E-03 731697.5 4059377.4 63.6 3.40 4.00
3.16 NO NO
L0003326 0 0.15232E-03 731706.1 4059377.6 63.6 3.40 4.00
3.16 NO NO
L0003327 0 0.15232E-03 731714.7 4059377.8 63.6 3.40 4.00
3.16 NO NO
L0003328 0 0.15232E-03 731723.3 4059378.0 63.5 3.40 4.00
3.16 NO NO
L0003329 0 0.15232E-03 731731.9 4059378.1 63.5 3.40 4.00
3.16 NO NO
L0003330 0 0.15232E-03 731740.5 4059378.3 63.5 3.40 4.00
3.16 NO NO
L0003331 0 0.15232E-03 731749.1 4059378.5 63.5 3.40 4.00
3.16 NO NO
L0003332 0 0.15232E-03 731757.7 4059378.7 63.4 3.40 4.00
3.16 NO NO
L0003333 0 0.15232E-03 731766.3 4059378.9 63.4 3.40 4.00
3.16 NO NO
L0003334 0 0.15232E-03 731774.9 4059379.1 63.4 3.40 4.00
3.16 NO NO
L0003335 0 0.15232E-03 731783.5 4059379.3 63.4 3.40 4.00
3.16 NO NO
L0003336 0 0.15232E-03 731792.1 4059379.4 63.4 3.40 4.00
3.16 NO NO
L0003337 0 0.15232E-03 731800.7 4059379.6 63.4 3.40 4.00
3.16 NO NO
L0003338 0 0.15232E-03 731809.3 4059379.8 63.3 3.40 4.00
3.16 NO NO
L0003339 0 0.15232E-03 731817.9 4059380.0 63.3 3.40 4.00
3.16 NO NO
L0003340 0 0.15232E-03 731826.5 4059380.2 63.3 3.40 4.00
3.16 NO NO
L0003341 0 0.15232E-03 731835.1 4059380.4 63.2 3.40 4.00
3.16 NO NO
L0003342 0 0.15232E-03 731843.7 4059380.6 63.2 3.40 4.00
3.16 NO NO
L0003343 0 0.15232E-03 731852.3 4059380.8 63.2 3.40 4.00
3.16 NO NO
L0003344 0 0.15232E-03 731860.9 4059380.9 63.2 3.40 4.00
3.16 NO NO
L0003345 0 0.15232E-03 731869.5 4059381.1 63.1 3.40 4.00
3.16 NO NO
L0003346 0 0.15232E-03 731878.1 4059381.3 63.1 3.40 4.00

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3.16     NO                     NO
 L0003347         0   0.15232E-03  731886.7 4059381.5    63.1     3.40     4.00
3.16     NO                     NO
 L0003348         0   0.15232E-03  731895.3 4059381.7    63.1     3.40     4.00
3.16     NO                     NO
 L0003349         0   0.15232E-03  731903.9 4059381.9    63.0     3.40     4.00
3.16     NO                     NO
 L0003350         0   0.15232E-03  731912.5 4059382.1    63.0     3.40     4.00
3.16     NO                     NO
 L0003351         0   0.15232E-03  731921.1 4059382.2    63.0     3.40     4.00
3.16     NO                     NO
 L0003352         0   0.15232E-03  731929.7 4059382.4    62.9     3.40     4.00
3.16     NO                     NO
 L0003353         0   0.15232E-03  731938.3 4059382.6    62.9     3.40     4.00
3.16     NO                     NO
 L0003354         0   0.15232E-03  731946.9 4059382.8    62.9     3.40     4.00
3.16     NO                     NO
 L0003355         0   0.15232E-03  731955.5 4059383.0    62.8     3.40     4.00
3.16     NO                     NO
 L0003356         0   0.15232E-03  731964.1 4059383.2    62.8     3.40     4.00
3.16     NO                     NO
 L0003357         0   0.15232E-03  731972.7 4059383.4    62.8     3.40     4.00
3.16     NO                     NO
 L0003358         0   0.15232E-03  731981.3 4059383.6    62.7     3.40     4.00
3.16     NO                     NO
 L0003359         0   0.15232E-03  731989.9 4059383.7    62.7     3.40     4.00
3.16     NO                     NO
 L0003360         0   0.15232E-03  731998.5 4059383.9    62.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0003361         0   0.15232E-03  732007.1 4059384.1    62.6     3.40     4.00
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3.16     NO                    NO
 L0003362         0   0.15232E-03  732015.7 4059384.3    62.6     3.40     4.00
3.16     NO                    NO
 L0003363         0   0.15232E-03  732024.3 4059384.5    62.6     3.40     4.00
3.16     NO                    NO
 L0003364         0   0.15232E-03  732032.9 4059384.7    62.5     3.40     4.00
3.16     NO                    NO
 L0003365         0   0.15232E-03  732041.5 4059384.9    62.5     3.40     4.00
3.16     NO                    NO
 L0003366         0   0.15232E-03  732050.1 4059385.1    62.5     3.40     4.00
3.16     NO                    NO
 L0003367         0   0.15232E-03  732058.7 4059385.2    62.4     3.40     4.00
3.16     NO                    NO
 L0003368         0   0.15232E-03  732067.3 4059385.4    62.4     3.40     4.00
3.16     NO                    NO
 L0003369         0   0.15232E-03  732075.9 4059385.6    62.4     3.40     4.00
3.16     NO                    NO
 L0003370         0   0.15232E-03  732084.5 4059385.8    62.3     3.40     4.00
3.16     NO                    NO
 L0003371         0   0.15232E-03  732093.0 4059386.0    62.3     3.40     4.00
3.16     NO                    NO
 L0003372         0   0.15232E-03  732101.6 4059386.2    62.3     3.40     4.00
3.16     NO                    NO
 L0003373         0   0.15232E-03  732110.2 4059386.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003374         0   0.15232E-03  732118.8 4059386.5    62.2     3.40     4.00
3.16     NO                    NO
 L0003375         0   0.15232E-03  732127.4 4059386.7    62.1     3.40     4.00
3.16     NO                    NO
 L0003376         0   0.15232E-03  732136.0 4059386.9    62.1     3.40     4.00
3.16     NO                    NO
 L0003377         0   0.15232E-03  732144.6 4059387.1    62.1     3.40     4.00
3.16     NO                    NO
 L0003378         0   0.15232E-03  732153.2 4059387.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003379         0   0.15232E-03  732161.8 4059387.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003380         0   0.15232E-03  732170.4 4059387.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003381         0   0.15232E-03  732179.0 4059387.9    61.9     3.40     4.00
3.16     NO                    NO
 L0003382         0   0.15232E-03  732187.6 4059388.0    61.9     3.40     4.00
3.16     NO                    NO
 L0003383         0   0.15232E-03  732196.2 4059388.2    61.9     3.40     4.00
3.16     NO                    NO
 L0003384         0   0.15232E-03  732204.8 4059388.4    61.8     3.40     4.00
3.16     NO                    NO
 L0003385         0   0.15232E-03  732213.4 4059388.6    61.8     3.40     4.00
3.16     NO                    NO
 L0003386         0   0.15232E-03  732222.0 4059388.8    61.8     3.40     4.00
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3.16 NO NO
L0003387 0 0.15232E-03 732230.6 4059389.0 61.8 3.40 4.00
3.16 NO NO
L0003388 0 0.15232E-03 732239.2 4059389.2 61.7 3.40 4.00
3.16 NO NO
L0003389 0 0.15232E-03 732247.8 4059389.4 61.7 3.40 4.00
3.16 NO NO
L0003390 0 0.15232E-03 732256.4 4059389.5 61.7 3.40 4.00
3.16 NO NO
L0003391 0 0.15232E-03 732265.0 4059389.7 61.7 3.40 4.00
3.16 NO NO
L0003392 0 0.15232E-03 732273.6 4059389.9 61.7 3.40 4.00
3.16 NO NO
L0003393 0 0.15232E-03 732282.2 4059390.1 61.6 3.40 4.00
3.16 NO NO
L0003394 0 0.15232E-03 732290.8 4059390.3 61.6 3.40 4.00
3.16 NO NO
L0003395 0 0.15232E-03 732299.4 4059390.5 61.6 3.40 4.00
3.16 NO NO
L0003396 0 0.15232E-03 732308.0 4059390.7 61.6 3.40 4.00
3.16 NO NO
L0003397 0 0.15232E-03 732316.6 4059390.8 61.6 3.40 4.00
3.16 NO NO
L0003398 0 0.15232E-03 732325.2 4059391.0 61.6 3.40 4.00
3.16 NO NO
L0003399 0 0.15232E-03 732333.8 4059391.2 61.5 3.40 4.00
3.16 NO NO
L0003400 0 0.15232E-03 732342.4 4059391.4 61.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0003401	0	0.15232E-03	732351.0	4059391.6	61.5	3.40	4.00				

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3.16     NO                    NO
 L0003402         0   0.15232E-03  732359.6 4059391.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003403         0   0.15232E-03  732368.2 4059392.0    61.5     3.40     4.00
3.16     NO                    NO
 L0003404         0   0.15232E-03  732376.8 4059392.2    61.4     3.40     4.00
3.16     NO                    NO
 L0003405         0   0.15232E-03  732385.4 4059392.3    61.4     3.40     4.00
3.16     NO                    NO
 L0003406         0   0.15232E-03  732394.0 4059392.5    61.4     3.40     4.00
3.16     NO                    NO
 L0003407         0   0.15232E-03  732402.6 4059392.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003408         0   0.15232E-03  732411.2 4059392.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003409         0   0.15232E-03  732419.8 4059393.1    61.4     3.40     4.00
3.16     NO                    NO
 L0003410         0   0.15232E-03  732428.4 4059393.3    61.3     3.40     4.00
3.16     NO                    NO
 L0003411         0   0.15232E-03  732437.0 4059393.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003412         0   0.15232E-03  732445.6 4059393.7    61.3     3.40     4.00
3.16     NO                    NO
 L0003413         0   0.15232E-03  732454.2 4059393.8    61.3     3.40     4.00
3.16     NO                    NO
 L0003414         0   0.15232E-03  732462.8 4059394.0    61.3     3.40     4.00
3.16     NO                    NO
 L0003415         0   0.15232E-03  732471.4 4059394.2    61.3     3.40     4.00
3.16     NO                    NO
 L0003416         0   0.15232E-03  732480.0 4059394.4    61.2     3.40     4.00
3.16     NO                    NO
 L0003417         0   0.15232E-03  732486.4 4059392.3    61.2     3.40     4.00
3.16     NO                    NO
 L0003418         0   0.15232E-03  732486.6 4059383.7    61.2     3.40     4.00
3.16     NO                    NO
 L0003419         0   0.15232E-03  732486.8 4059375.1    61.2     3.40     4.00
3.16     NO                    NO
 L0003420         0   0.15232E-03  732487.1 4059366.5    61.2     3.40     4.00
3.16     NO                    NO
 L0003421         0   0.15232E-03  732487.3 4059357.9    61.2     3.40     4.00
3.16     NO                    NO
 L0003422         0   0.15232E-03  732487.6 4059349.3    61.2     3.40     4.00
3.16     NO                    NO
 L0003423         0   0.15232E-03  732487.8 4059340.7    61.3     3.40     4.00
3.16     NO                    NO
 L0003424         0   0.15232E-03  732488.0 4059332.1    61.3     3.40     4.00
3.16     NO                    NO
 L0003425         0   0.15232E-03  732488.3 4059323.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003426         0   0.15232E-03  732488.5 4059314.9    61.3     3.40     4.00
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3.16     NO                     NO
 L0003427         0   0.15232E-03  732488.8 4059306.3    61.3     3.40     4.00
3.16     NO                     NO
 L0003428         0   0.15232E-03  732489.0 4059297.7    61.3     3.40     4.00
3.16     NO                     NO
 L0003429         0   0.15232E-03  732489.2 4059289.1    61.3     3.40     4.00
3.16     NO                     NO
 L0003430         0   0.15232E-03  732489.5 4059280.5    61.3     3.40     4.00
3.16     NO                     NO
 L0003431         0   0.15232E-03  732489.7 4059271.9    61.3     3.40     4.00
3.16     NO                     NO
 L0003432         0   0.15232E-03  732490.0 4059263.3    61.3     3.40     4.00
3.16     NO                     NO
 L0003433         0   0.15232E-03  732490.2 4059254.7    61.3     3.40     4.00
3.16     NO                     NO
 L0003434         0   0.15232E-03  732490.4 4059246.1    61.3     3.40     4.00
3.16     NO                     NO
 L0003435         0   0.15232E-03  732490.7 4059237.5    61.3     3.40     4.00
3.16     NO                     NO
 L0003436         0   0.15232E-03  732490.9 4059228.9    61.3     3.40     4.00
3.16     NO                     NO
 L0003437         0   0.15232E-03  732491.2 4059220.4    61.3     3.40     4.00
3.16     NO                     NO
 L0003438         0   0.15232E-03  732491.4 4059211.8    61.4     3.40     4.00
3.16     NO                     NO
 L0003439         0   0.15232E-03  732491.6 4059203.2    61.4     3.40     4.00
3.16     NO                     NO
 L0003440         0   0.15232E-03  732491.9 4059194.6    61.4     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0003441         0   0.15232E-03  732492.1 4059186.0    61.4     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0003443         0   0.15232E-03  732492.6 4059168.8    61.4     3.40     4.00
3.16     NO                    NO
 L0003444         0   0.15232E-03  732492.9 4059160.2    61.4     3.40     4.00
3.16     NO                    NO
 L0003445         0   0.15232E-03  732493.1 4059151.6    61.4     3.40     4.00
3.16     NO                    NO
 L0003446         0   0.15232E-03  732493.3 4059143.0    61.4     3.40     4.00
3.16     NO                    NO
 L0003447         0   0.15232E-03  732493.6 4059134.4    61.4     3.40     4.00
3.16     NO                    NO
 L0003448         0   0.15232E-03  732493.8 4059125.8    61.4     3.40     4.00
3.16     NO                    NO
 L0003449         0   0.15232E-03  732494.1 4059117.2    61.5     3.40     4.00
3.16     NO                    NO
 L0003450         0   0.15232E-03  732494.3 4059108.6    61.5     3.40     4.00
3.16     NO                    NO
 L0003451         0   0.15232E-03  732494.5 4059100.0    61.5     3.40     4.00
3.16     NO                    NO
 L0003452         0   0.15232E-03  732494.8 4059091.4    61.5     3.40     4.00
3.16     NO                    NO
 L0003453         0   0.15232E-03  732495.0 4059082.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003454         0   0.15232E-03  732495.3 4059074.2    61.5     3.40     4.00
3.16     NO                    NO
 L0003455         0   0.15232E-03  732495.5 4059065.6    61.5     3.40     4.00
3.16     NO                    NO
 L0003456         0   0.15232E-03  732495.7 4059057.0    61.5     3.40     4.00
3.16     NO                    NO
 L0003457         0   0.15232E-03  732496.0 4059048.4    61.5     3.40     4.00
3.16     NO                    NO
 L0003458         0   0.15232E-03  732496.2 4059039.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003459         0   0.15232E-03  732496.5 4059031.2    61.6     3.40     4.00
3.16     NO                    NO
 L0003460         0   0.15232E-03  732496.7 4059022.6    61.6     3.40     4.00
3.16     NO                    NO
 L0003461         0   0.15232E-03  732496.9 4059014.0    61.6     3.40     4.00
3.16     NO                    NO
 L0003462         0   0.15232E-03  732497.2 4059005.4    61.6     3.40     4.00
3.16     NO                    NO
 L0003463         0   0.15232E-03  732497.4 4058996.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003464         0   0.15232E-03  732497.7 4058988.2    61.6     3.40     4.00
3.16     NO                    NO
 L0003465         0   0.15232E-03  732497.9 4058979.6    61.6     3.40     4.00
3.16     NO                    NO
 L0003466         0   0.15232E-03  732498.1 4058971.0    61.6     3.40     4.00
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3.16   NO   NO
 L0003467   0   0.15232E-03 732498.4 4058962.5   61.7   3.40   4.00
3.16   NO   NO
 L0003468   0   0.15232E-03 732498.6 4058953.9   61.7   3.40   4.00
3.16   NO   NO
 L0003469   0   0.15232E-03 732498.9 4058945.3   61.7   3.40   4.00
3.16   NO   NO
 L0003470   0   0.15232E-03 732499.1 4058936.7   61.7   3.40   4.00
3.16   NO   NO
 L0003471   0   0.15232E-03 732499.3 4058928.1   61.7   3.40   4.00
3.16   NO   NO
 L0003472   0   0.15232E-03 732499.6 4058919.5   61.7   3.40   4.00
3.16   NO   NO
 L0003473   0   0.15232E-03 732499.8 4058910.9   61.7   3.40   4.00
3.16   NO   NO
 L0003474   0   0.15232E-03 732500.1 4058902.3   61.7   3.40   4.00
3.16   NO   NO
 L0003475   0   0.15232E-03 732500.3 4058893.7   61.7   3.40   4.00
3.16   NO   NO
 L0003476   0   0.15232E-03 732500.5 4058885.1   61.7   3.40   4.00
3.16   NO   NO
 L0003477   0   0.15232E-03 732500.8 4058876.5   61.8   3.40   4.00
3.16   NO   NO
 L0003478   0   0.15232E-03 732501.0 4058867.9   61.8   3.40   4.00
3.16   NO   NO
 L0003479   0   0.15232E-03 732501.3 4058859.3   61.8   3.40   4.00
3.16   NO   NO
 L0003480   0   0.15232E-03 732501.5 4058850.7   61.8   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0003481   0   0.15232E-03 732501.7 4058842.1   61.8   3.40   4.00

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3.16     NO                    NO
 L0003482         0   0.15232E-03  732502.0 4058833.5    61.8     3.40     4.00
3.16     NO                    NO
 L0003483         0   0.15232E-03  732502.2 4058824.9    61.8     3.40     4.00
3.16     NO                    NO
 L0003484         0   0.15232E-03  732502.5 4058816.3    61.8     3.40     4.00
3.16     NO                    NO
 L0003485         0   0.15232E-03  732502.7 4058807.7    61.8     3.40     4.00
3.16     NO                    NO
 L0003486         0   0.15232E-03  732502.9 4058799.1    61.8     3.40     4.00
3.16     NO                    NO
 L0003487         0   0.15232E-03  732503.2 4058790.5    61.8     3.40     4.00
3.16     NO                    NO
 L0003488         0   0.15232E-03  732503.4 4058781.9    61.8     3.40     4.00
3.16     NO                    NO
 L0003489         0   0.15232E-03  732503.7 4058773.3    61.8     3.40     4.00
3.16     NO                    NO
 L0003490         0   0.15232E-03  732503.9 4058764.7    61.8     3.40     4.00
3.16     NO                    NO
 L0003491         0   0.15232E-03  732504.1 4058756.1    61.8     3.40     4.00
3.16     NO                    NO
 L0003492         0   0.15232E-03  732504.4 4058747.5    61.9     3.40     4.00
3.16     NO                    NO
 L0003493         0   0.15232E-03  732504.6 4058738.9    61.9     3.40     4.00
3.16     NO                    NO
 L0003494         0   0.15232E-03  732504.9 4058730.3    61.9     3.40     4.00
3.16     NO                    NO
 L0003495         0   0.15232E-03  732505.1 4058721.7    61.9     3.40     4.00
3.16     NO                    NO
 L0003496         0   0.15232E-03  732505.3 4058713.2    61.9     3.40     4.00
3.16     NO                    NO
 L0003497         0   0.15232E-03  732505.6 4058704.6    61.9     3.40     4.00
3.16     NO                    NO
 L0003498         0   0.15232E-03  732505.8 4058696.0    61.9     3.40     4.00
3.16     NO                    NO
 L0003499         0   0.15232E-03  732506.1 4058687.4    61.9     3.40     4.00
3.16     NO                    NO
 L0003500         0   0.15232E-03  732506.3 4058678.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003501         0   0.15232E-03  732506.5 4058670.2    61.9     3.40     4.00
3.16     NO                    NO
 L0003502         0   0.15232E-03  732506.8 4058661.6    61.9     3.40     4.00
3.16     NO                    NO
 L0003503         0   0.15232E-03  732507.0 4058653.0    61.9     3.40     4.00
3.16     NO                    NO
 L0003504         0   0.15232E-03  732507.3 4058644.4    61.9     3.40     4.00
3.16     NO                    NO
 L0003505         0   0.15232E-03  732507.5 4058635.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003506         0   0.15232E-03  732507.7 4058627.2    61.9     3.40     4.00
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3.16     NO                     NO
 L0003507         0   0.15232E-03  732508.0 4058618.6    61.9     3.40     4.00
3.16     NO                     NO
 L0003508         0   0.15232E-03  732508.2 4058610.0    61.9     3.40     4.00
3.16     NO                     NO
 L0003509         0   0.15232E-03  732508.5 4058601.4    61.9     3.40     4.00
3.16     NO                     NO
 L0003510         0   0.15232E-03  732508.7 4058592.8    61.9     3.40     4.00
3.16     NO                     NO
 L0003511         0   0.15232E-03  732508.9 4058584.2    61.9     3.40     4.00
3.16     NO                     NO
 L0003512         0   0.15232E-03  732509.2 4058575.6    61.9     3.40     4.00
3.16     NO                     NO
 L0003513         0   0.15232E-03  732509.4 4058567.0    61.9     3.40     4.00
3.16     NO                     NO
 L0003514         0   0.15232E-03  732509.7 4058558.4    61.9     3.40     4.00
3.16     NO                     NO
 L0003515         0   0.15232E-03  732509.9 4058549.8    61.9     3.40     4.00
3.16     NO                     NO
 L0003516         0   0.15232E-03  732510.1 4058541.2    61.9     3.40     4.00
3.16     NO                     NO
 L0003517         0   0.15232E-03  732510.4 4058532.6    62.0     3.40     4.00
3.16     NO                     NO
 L0003518         0   0.15232E-03  732510.6 4058524.0    62.0     3.40     4.00
3.16     NO                     NO
 L0003519         0   0.15232E-03  732510.9 4058515.4    62.0     3.40     4.00
3.16     NO                     NO
 L0003520         0   0.15232E-03  732511.1 4058506.8    62.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0003521         0   0.15232E-03  732511.3 4058498.2    62.0     3.40     4.00
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3.16     NO                    NO
 L0003522         0   0.15232E-03  732511.6 4058489.6    62.0     3.40     4.00
3.16     NO                    NO
 L0003523         0   0.15232E-03  732511.8 4058481.0    62.0     3.40     4.00
3.16     NO                    NO
 L0003524         0   0.15232E-03  732512.1 4058472.4    62.0     3.40     4.00
3.16     NO                    NO
 L0003525         0   0.15232E-03  732512.3 4058463.8    62.0     3.40     4.00
3.16     NO                    NO
 L0003526         0   0.15232E-03  732512.5 4058455.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003527         0   0.15232E-03  732512.8 4058446.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003528         0   0.15232E-03  732513.0 4058438.1    62.0     3.40     4.00
3.16     NO                    NO
 L0003529         0   0.15232E-03  732513.3 4058429.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003530         0   0.15232E-03  732513.5 4058420.9    62.0     3.40     4.00
3.16     NO                    NO
 L0003531         0   0.15232E-03  732513.7 4058412.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003532         0   0.15232E-03  732514.0 4058403.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003533         0   0.15232E-03  732514.2 4058395.1    62.0     3.40     4.00
3.16     NO                    NO
 L0003534         0   0.15232E-03  732514.5 4058386.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003535         0   0.15232E-03  732514.7 4058377.9    62.0     3.40     4.00
3.16     NO                    NO
 L0003536         0   0.15232E-03  732514.9 4058369.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003537         0   0.15232E-03  732515.2 4058360.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003538         0   0.15232E-03  732515.4 4058352.1    62.0     3.40     4.00
3.16     NO                    NO
 L0003539         0   0.15232E-03  732515.7 4058343.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003540         0   0.15232E-03  732515.9 4058334.9    62.0     3.40     4.00
3.16     NO                    NO
 L0003541         0   0.15232E-03  732516.1 4058326.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003542         0   0.15232E-03  732516.4 4058317.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003543         0   0.15232E-03  732516.6 4058309.1    62.0     3.40     4.00
3.16     NO                    NO
 L0003544         0   0.15232E-03  732516.9 4058300.5    62.1     3.40     4.00
3.16     NO                    NO
 L0003545         0   0.15232E-03  732517.1 4058291.9    62.1     3.40     4.00
3.16     NO                    NO
 L0003546         0   0.15232E-03  732517.3 4058283.3    62.1     3.40     4.00
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3.16 NO NO
L0003547 0 0.15232E-03 732517.6 4058274.7 62.1 3.40 4.00
3.16 NO NO
L0003548 0 0.15232E-03 732517.8 4058266.1 62.1 3.40 4.00
3.16 NO NO
L0003549 0 0.15232E-03 732518.1 4058257.5 62.1 3.40 4.00
3.16 NO NO
L0003550 0 0.15232E-03 732518.3 4058248.9 62.1 3.40 4.00
3.16 NO NO
L0003551 0 0.15232E-03 732518.5 4058240.3 62.1 3.40 4.00
3.16 NO NO
L0003552 0 0.15232E-03 732518.8 4058231.7 62.1 3.40 4.00
3.16 NO NO
L0003553 0 0.15232E-03 732519.0 4058223.1 62.1 3.40 4.00
3.16 NO NO
L0003554 0 0.15232E-03 732519.3 4058214.5 62.1 3.40 4.00
3.16 NO NO
L0003555 0 0.15232E-03 732519.5 4058205.9 62.1 3.40 4.00
3.16 NO NO
L0003556 0 0.15232E-03 732519.7 4058197.4 62.1 3.40 4.00
3.16 NO NO
L0003557 0 0.15232E-03 732520.0 4058188.8 62.1 3.40 4.00
3.16 NO NO
L0003558 0 0.15232E-03 732520.2 4058180.2 62.1 3.40 4.00
3.16 NO NO
L0003559 0 0.15232E-03 732520.5 4058171.6 62.1 3.40 4.00
3.16 NO NO
L0003560 0 0.15232E-03 732520.7 4058163.0 62.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0003561	0	0.15232E-03	732520.9	4058154.4	62.1	3.40	4.00				

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3.16     NO                    NO
 L0003562         0   0.15232E-03  732521.2 4058145.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003563         0   0.15232E-03  732521.4 4058137.2    62.2     3.40     4.00
3.16     NO                    NO
 L0003564         0   0.15232E-03  732521.7 4058128.6    62.2     3.40     4.00
3.16     NO                    NO
 L0003565         0   0.15232E-03  732521.9 4058120.0    62.2     3.40     4.00
3.16     NO                    NO
 L0003566         0   0.15232E-03  732522.1 4058111.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003567         0   0.15232E-03  732522.4 4058102.8    62.2     3.40     4.00
3.16     NO                    NO
 L0003568         0   0.15232E-03  732522.6 4058094.2    62.2     3.40     4.00
3.16     NO                    NO
 L0003569         0   0.15232E-03  732522.9 4058085.6    62.2     3.40     4.00
3.16     NO                    NO
 L0003570         0   0.15232E-03  732523.1 4058077.0    62.2     3.40     4.00
3.16     NO                    NO
 L0003571         0   0.15232E-03  732523.3 4058068.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003572         0   0.15232E-03  732523.6 4058059.8    62.2     3.40     4.00
3.16     NO                    NO
 L0003573         0   0.15232E-03  732523.8 4058051.2    62.2     3.40     4.00
3.16     NO                    NO
 L0003574         0   0.15232E-03  732524.1 4058042.6    62.2     3.40     4.00
3.16     NO                    NO
 L0003575         0   0.15232E-03  732524.3 4058034.0    62.2     3.40     4.00
3.16     NO                    NO
 L0003576         0   0.15232E-03  732524.5 4058025.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003577         0   0.15232E-03  732524.8 4058016.8    62.2     3.40     4.00
3.16     NO                    NO
 L0003578         0   0.15232E-03  732525.0 4058008.2    62.2     3.40     4.00
3.16     NO                    NO
 L0003579         0   0.15232E-03  732525.3 4057999.6    62.2     3.40     4.00
3.16     NO                    NO
 L0003580         0   0.15232E-03  732525.5 4057991.0    62.2     3.40     4.00
3.16     NO                    NO
 L0003581         0   0.15232E-03  732525.7 4057982.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003582         0   0.15232E-03  732526.0 4057973.8    62.3     3.40     4.00
3.16     NO                    NO
 L0003583         0   0.15232E-03  732526.2 4057965.2    62.3     3.40     4.00
3.16     NO                    NO
 L0003584         0   0.15232E-03  732526.5 4057956.6    62.3     3.40     4.00
3.16     NO                    NO
 L0003585         0   0.15232E-03  732526.7 4057948.0    62.3     3.40     4.00
3.16     NO                    NO
 L0003586         0   0.15232E-03  732526.9 4057939.5    62.3     3.40     4.00
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3.16 NO NO
L0003587 0 0.15232E-03 732527.2 4057930.9 62.3 3.40 4.00
3.16 NO NO
L0003588 0 0.15232E-03 732527.4 4057922.3 62.3 3.40 4.00
3.16 NO NO
L0003589 0 0.15232E-03 732527.7 4057913.7 62.3 3.40 4.00
3.16 NO NO
L0003590 0 0.15232E-03 732527.9 4057905.1 62.3 3.40 4.00
3.16 NO NO
L0003591 0 0.15232E-03 732528.1 4057896.5 62.3 3.40 4.00
3.16 NO NO
L0003592 0 0.15232E-03 732528.4 4057887.9 62.3 3.40 4.00
3.16 NO NO
L0003593 0 0.15232E-03 732528.6 4057879.3 62.3 3.40 4.00
3.16 NO NO
L0003594 0 0.15232E-03 732528.9 4057870.7 62.3 3.40 4.00
3.16 NO NO
L0003595 0 0.15232E-03 732529.1 4057862.1 62.3 3.40 4.00
3.16 NO NO
L0003596 0 0.15232E-03 732529.4 4057853.5 62.3 3.40 4.00
3.16 NO NO
L0003597 0 0.15232E-03 732529.6 4057844.9 62.3 3.40 4.00
3.16 NO NO
L0003598 0 0.15232E-03 732536.8 4057844.0 62.3 3.40 4.00
3.16 NO NO
L0003599 0 0.15232E-03 732545.4 4057844.7 62.3 3.40 4.00
3.16 NO NO
L0003600 0 0.15232E-03 732553.9 4057845.4 62.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0003601	0	0.15232E-03	732562.5	4057846.1	62.3	3.40	4.00			

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3.16     NO                    NO
 L0003602         0   0.15232E-03  732571.1 4057846.8    62.2     3.40     4.00
3.16     NO                    NO
 L0003603         0   0.15232E-03  732579.7 4057847.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003604         0   0.15232E-03  732588.2 4057848.1    62.2     3.40     4.00
3.16     NO                    NO
 L0003605         0   0.15232E-03  732596.8 4057848.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003606         0   0.15232E-03  732605.4 4057849.5    62.1     3.40     4.00
3.16     NO                    NO
 L0003607         0   0.15232E-03  732614.0 4057850.1    62.1     3.40     4.00
3.16     NO                    NO
 L0003608         0   0.15232E-03  732622.5 4057850.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003609         0   0.15232E-03  732631.1 4057851.5    62.1     3.40     4.00
3.16     NO                    NO
 L0003610         0   0.15232E-03  732639.7 4057852.2    62.1     3.40     4.00
3.16     NO                    NO
 L0003611         0   0.15232E-03  732648.3 4057852.8    62.0     3.40     4.00
3.16     NO                    NO
 L0003612         0   0.15232E-03  732656.8 4057853.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003613         0   0.15232E-03  732665.4 4057854.2    62.0     3.40     4.00
3.16     NO                    NO
 L0003614         0   0.15232E-03  732674.0 4057854.9    61.9     3.40     4.00
3.16     NO                    NO
 L0003615         0   0.15232E-03  732682.5 4057855.6    61.9     3.40     4.00
3.16     NO                    NO
 L0003616         0   0.15232E-03  732691.1 4057856.2    61.9     3.40     4.00
3.16     NO                    NO
 L0003617         0   0.15232E-03  732699.7 4057856.9    61.9     3.40     4.00
3.16     NO                    NO
 L0003618         0   0.15232E-03  732708.3 4057857.6    61.9     3.40     4.00
3.16     NO                    NO
 L0003619         0   0.15232E-03  732716.8 4057858.3    61.8     3.40     4.00
3.16     NO                    NO
 L0003620         0   0.15232E-03  732725.4 4057858.9    61.8     3.40     4.00
3.16     NO                    NO
 L0003621         0   0.15232E-03  732734.0 4057859.6    61.8     3.40     4.00
3.16     NO                    NO
 L0003622         0   0.15232E-03  732742.6 4057860.3    61.8     3.40     4.00
3.16     NO                    NO
 L0003623         0   0.15232E-03  732751.1 4057861.0    61.7     3.40     4.00
3.16     NO                    NO
 L0003624         0   0.15232E-03  732759.7 4057861.6    61.7     3.40     4.00
3.16     NO                    NO
 L0003625         0   0.15232E-03  732768.3 4057862.3    61.7     3.40     4.00
3.16     NO                    NO
 L0003626         0   0.15232E-03  732776.9 4057863.0    61.7     3.40     4.00
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3.16   NO   NO
 L0003627   0   0.15232E-03 732785.4 4057863.7   61.7   3.40   4.00
3.16   NO   NO
 L0003628   0   0.15232E-03 732794.0 4057864.4   61.6   3.40   4.00
3.16   NO   NO
 L0003629   0   0.15232E-03 732802.6 4057865.0   61.6   3.40   4.00
3.16   NO   NO
 L0003630   0   0.15232E-03 732811.1 4057865.7   61.6   3.40   4.00
3.16   NO   NO
 L0003631   0   0.15232E-03 732819.7 4057866.4   61.5   3.40   4.00
3.16   NO   NO
 L0003632   0   0.15232E-03 732828.3 4057867.1   61.5   3.40   4.00
3.16   NO   NO
 L0003633   0   0.15232E-03 732836.9 4057867.7   61.5   3.40   4.00
3.16   NO   NO
 L0003634   0   0.15232E-03 732845.4 4057868.4   61.5   3.40   4.00
3.16   NO   NO
 L0003635   0   0.15232E-03 732854.0 4057869.1   61.5   3.40   4.00
3.16   NO   NO
 L0003636   0   0.15232E-03 732858.8 4057873.2   61.4   3.40   4.00
3.16   NO   NO
 L0003637   0   0.15232E-03 732858.5 4057881.8   61.4   3.40   4.00
3.16   NO   NO
 L0003638   0   0.15232E-03 732858.3 4057890.4   61.4   3.40   4.00
3.16   NO   NO
 L0003639   0   0.15232E-03 732858.0 4057899.0   61.4   3.40   4.00
3.16   NO   NO
 L0003640   0   0.15232E-03 732857.8 4057907.6   61.4   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0003641   0   0.15232E-03 732857.5 4057916.2   61.4   3.40   4.00

```
3.16     NO                    NO
 L0003642         0   0.15232E-03  732857.2 4057924.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003643         0   0.15232E-03  732857.0 4057933.3    61.4     3.40     4.00
3.16     NO                    NO
 L0003644         0   0.15232E-03  732856.7 4057941.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003645         0   0.15232E-03  732856.5 4057950.5    61.4     3.40     4.00
3.16     NO                    NO
 L0003646         0   0.15232E-03  732856.2 4057959.1    61.4     3.40     4.00
3.16     NO                    NO
 L0003647         0   0.15232E-03  732855.9 4057967.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003648         0   0.15232E-03  732855.7 4057976.3    61.4     3.40     4.00
3.16     NO                    NO
 L0003649         0   0.15232E-03  732855.4 4057984.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003650         0   0.15232E-03  732855.2 4057993.5    61.4     3.40     4.00
3.16     NO                    NO
 L0003651         0   0.15232E-03  732854.9 4058002.1    61.4     3.40     4.00
3.16     NO                    NO
 L0003652         0   0.15232E-03  732854.6 4058010.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003653         0   0.15232E-03  732854.4 4058019.3    61.4     3.40     4.00
3.16     NO                    NO
 L0003654         0   0.15232E-03  732854.1 4058027.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003655         0   0.15232E-03  732853.9 4058036.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003656         0   0.15232E-03  732853.6 4058045.1    61.3     3.40     4.00
3.16     NO                    NO
 L0003657         0   0.15232E-03  732853.3 4058053.7    61.3     3.40     4.00
3.16     NO                    NO
 L0003658         0   0.15232E-03  732853.1 4058062.3    61.3     3.40     4.00
3.16     NO                    NO
 L0003659         0   0.15232E-03  732852.8 4058070.9    61.3     3.40     4.00
3.16     NO                    NO
 L0003660         0   0.15232E-03  732852.6 4058079.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003661         0   0.15232E-03  732852.3 4058088.1    61.3     3.40     4.00
3.16     NO                    NO
 L0003662         0   0.15232E-03  732852.0 4058096.7    61.3     3.40     4.00
3.16     NO                    NO
 L0003663         0   0.15232E-03  732851.8 4058105.3    61.3     3.40     4.00
3.16     NO                    NO
 L0003664         0   0.15232E-03  732851.5 4058113.9    61.3     3.40     4.00
3.16     NO                    NO
 L0003665         0   0.15232E-03  732851.3 4058122.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003666         0   0.15232E-03  732851.0 4058131.1    61.3     3.40     4.00
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L0003667 0 0.15232E-03 732850.8 4058139.7 61.3 3.40 4.00
3.16 NO NO
L0003668 0 0.15232E-03 732850.5 4058148.2 61.3 3.40 4.00
3.16 NO NO
L0003669 0 0.15232E-03 732850.2 4058156.8 61.3 3.40 4.00
3.16 NO NO
L0003670 0 0.15232E-03 732850.0 4058165.4 61.3 3.40 4.00
3.16 NO NO
L0003671 0 0.15232E-03 732849.7 4058174.0 61.3 3.40 4.00
3.16 NO NO
L0003672 0 0.15232E-03 732849.5 4058182.6 61.3 3.40 4.00
3.16 NO NO
L0003673 0 0.15232E-03 732849.2 4058191.2 61.3 3.40 4.00
3.16 NO NO
L0003674 0 0.15232E-03 732848.9 4058199.8 61.3 3.40 4.00
3.16 NO NO
L0003675 0 0.15232E-03 732848.7 4058208.4 61.3 3.40 4.00
3.16 NO NO
L0003676 0 0.15232E-03 732848.4 4058217.0 61.3 3.40 4.00
3.16 NO NO
L0003677 0 0.15232E-03 732848.2 4058225.6 61.3 3.40 4.00
3.16 NO NO
L0003678 0 0.15232E-03 732847.9 4058234.2 61.3 3.40 4.00
3.16 NO NO
L0003679 0 0.15232E-03 732847.6 4058242.8 61.2 3.40 4.00
3.16 NO NO
L0003680 0 0.15232E-03 732847.4 4058251.4 61.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0003681	0	0.15232E-03	732847.1	4058260.0	61.2	3.40	4.00			

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3.16     NO                    NO
 L0003682         0   0.15232E-03  732846.9 4058268.6    61.2     3.40     4.00
3.16     NO                    NO
 L0003683         0   0.15232E-03  732846.6 4058277.2    61.2     3.40     4.00
3.16     NO                    NO
 L0003684         0   0.15232E-03  732846.3 4058285.8    61.2     3.40     4.00
3.16     NO                    NO
 L0003685         0   0.15232E-03  732846.1 4058294.4    61.2     3.40     4.00
3.16     NO                    NO
 L0003686         0   0.15232E-03  732845.8 4058303.0    61.2     3.40     4.00
3.16     NO                    NO
 L0003687         0   0.15232E-03  732845.6 4058311.6    61.2     3.40     4.00
3.16     NO                    NO
 L0003688         0   0.15232E-03  732845.3 4058320.2    61.2     3.40     4.00
3.16     NO                    NO
 L0003689         0   0.15232E-03  732845.0 4058328.8    61.2     3.40     4.00
3.16     NO                    NO
 L0003690         0   0.15232E-03  732844.8 4058337.4    61.2     3.40     4.00
3.16     NO                    NO
 L0003691         0   0.15232E-03  732844.5 4058346.0    61.2     3.40     4.00
3.16     NO                    NO
 L0003692         0   0.15232E-03  732844.3 4058354.6    61.2     3.40     4.00
3.16     NO                    NO
 L0003693         0   0.15232E-03  732844.0 4058363.1    61.2     3.40     4.00
3.16     NO                    NO
 L0003694         0   0.15232E-03  732843.7 4058371.7    61.2     3.40     4.00
3.16     NO                    NO
 L0003695         0   0.15232E-03  732843.5 4058380.3    61.2     3.40     4.00
3.16     NO                    NO
 L0003696         0   0.15232E-03  732843.2 4058388.9    61.2     3.40     4.00
3.16     NO                    NO
 L0003697         0   0.15232E-03  732843.0 4058397.5    61.2     3.40     4.00
3.16     NO                    NO
 L0003698         0   0.15232E-03  732842.7 4058406.1    61.2     3.40     4.00
3.16     NO                    NO
 L0003699         0   0.15232E-03  732842.5 4058414.7    61.2     3.40     4.00
3.16     NO                    NO
 L0003700         0   0.15232E-03  732842.2 4058423.3    61.2     3.40     4.00
3.16     NO                    NO
 L0003701         0   0.15232E-03  732841.9 4058431.9    61.2     3.40     4.00
3.16     NO                    NO
 L0003702         0   0.15232E-03  732841.7 4058440.5    61.2     3.40     4.00
3.16     NO                    NO
 L0003703         0   0.15232E-03  732841.4 4058449.1    61.1     3.40     4.00
3.16     NO                    NO
 L0003704         0   0.15232E-03  732841.2 4058457.7    61.1     3.40     4.00
3.16     NO                    NO
 L0003705         0   0.15232E-03  732840.9 4058466.3    61.1     3.40     4.00
3.16     NO                    NO
 L0003706         0   0.15232E-03  732840.6 4058474.9    61.1     3.40     4.00
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3.16     NO                     NO
 L0003707         0   0.15232E-03  732840.4 4058483.5    61.1     3.40     4.00
3.16     NO                     NO
 L0003708         0   0.15232E-03  732840.1 4058492.1    61.1     3.40     4.00
3.16     NO                     NO
 L0003709         0   0.15232E-03  732839.9 4058500.7    61.1     3.40     4.00
3.16     NO                     NO
 L0003710         0   0.15232E-03  732839.6 4058509.3    61.1     3.40     4.00
3.16     NO                     NO
 L0003711         0   0.15232E-03  732839.3 4058517.9    61.1     3.40     4.00
3.16     NO                     NO
 L0003712         0   0.15232E-03  732839.1 4058526.5    61.1     3.40     4.00
3.16     NO                     NO
 L0003713         0   0.15232E-03  732838.8 4058535.1    61.1     3.40     4.00
3.16     NO                     NO
 L0003714         0   0.15232E-03  732838.6 4058543.7    61.1     3.40     4.00
3.16     NO                     NO
 L0003715         0   0.15232E-03  732838.3 4058552.3    61.1     3.40     4.00
3.16     NO                     NO
 L0003716         0   0.15232E-03  732838.0 4058560.9    61.1     3.40     4.00
3.16     NO                     NO
 L0003717         0   0.15232E-03  732837.8 4058569.5    61.1     3.40     4.00
3.16     NO                     NO
 L0003718         0   0.15232E-03  732837.5 4058578.1    61.1     3.40     4.00
3.16     NO                     NO
 L0003719         0   0.15232E-03  732837.3 4058586.6    61.1     3.40     4.00
3.16     NO                     NO
 L0003720         0   0.15232E-03  732837.0 4058595.2    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0003721         0   0.15232E-03  732836.7 4058603.8    61.1     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0003723         0   0.15232E-03  732836.2 4058621.0    61.1     3.40     4.00
3.16     NO                    NO
 L0003724         0   0.15232E-03  732836.0 4058629.6    61.1     3.40     4.00
3.16     NO                    NO
 L0003725         0   0.15232E-03  732835.7 4058638.2    61.1     3.40     4.00
3.16     NO                    NO
 L0003726         0   0.15232E-03  732835.4 4058646.8    61.0     3.40     4.00
3.16     NO                    NO
 L0003727         0   0.15232E-03  732835.2 4058655.4    61.0     3.40     4.00
3.16     NO                    NO
 L0003728         0   0.15232E-03  732834.9 4058664.0    61.0     3.40     4.00
3.16     NO                    NO
 L0003729         0   0.15232E-03  732834.7 4058672.6    61.0     3.40     4.00
3.16     NO                    NO
 L0003730         0   0.15232E-03  732834.4 4058681.2    61.0     3.40     4.00
3.16     NO                    NO
 L0003731         0   0.15232E-03  732834.2 4058689.8    61.0     3.40     4.00
3.16     NO                    NO
 L0003732         0   0.15232E-03  732833.9 4058698.4    61.0     3.40     4.00
3.16     NO                    NO
 L0003733         0   0.15232E-03  732833.6 4058707.0    61.0     3.40     4.00
3.16     NO                    NO
 L0003734         0   0.15232E-03  732833.4 4058715.6    61.0     3.40     4.00
3.16     NO                    NO
 L0003735         0   0.15232E-03  732833.1 4058724.2    61.0     3.40     4.00
3.16     NO                    NO
 L0003736         0   0.15232E-03  732832.9 4058732.8    61.0     3.40     4.00
3.16     NO                    NO
 L0003737         0   0.15232E-03  732832.6 4058741.4    61.0     3.40     4.00
3.16     NO                    NO
 L0003738         0   0.15232E-03  732832.3 4058750.0    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003740         0   0.15232E-03  732831.8 4058767.2    61.0     3.40     4.00
3.16     NO                    NO
 L0003741         0   0.15232E-03  732831.6 4058775.8    61.0     3.40     4.00
3.16     NO                    NO
 L0003742         0   0.15232E-03  732831.3 4058784.4    61.0     3.40     4.00
3.16     NO                    NO
 L0003743         0   0.15232E-03  732831.0 4058793.0    61.0     3.40     4.00
3.16     NO                    NO
 L0003744         0   0.15232E-03  732830.8 4058801.5    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0003749   0   0.15232E-03 732829.5 4058844.5   60.9   3.40   4.00
3.16   NO   NO
 L0003750   0   0.15232E-03 732829.2 4058853.1   60.9   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0003753   0   0.15232E-03 732828.4 4058878.9   60.9   3.40   4.00
3.16   NO   NO
 L0003754   0   0.15232E-03 732828.2 4058887.5   60.9   3.40   4.00
3.16   NO   NO
 L0003755   0   0.15232E-03 732827.9 4058896.1   60.9   3.40   4.00
3.16   NO   NO
 L0003756   0   0.15232E-03 732827.7 4058904.7   60.9   3.40   4.00
3.16   NO   NO
 L0003757   0   0.15232E-03 732827.4 4058913.3   60.9   3.40   4.00
3.16   NO   NO
 L0003758   0   0.15232E-03 732827.1 4058921.9   60.9   3.40   4.00
3.16   NO   NO
 L0003759   0   0.15232E-03 732826.9 4058930.5   60.9   3.40   4.00
3.16   NO   NO
 L0003760   0   0.15232E-03 732826.6 4058939.1   60.9   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0003761   0   0.15232E-03 732826.4 4058947.7   60.8   3.40   4.00

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3.16     NO                    NO
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3.16     NO                    NO
 L0003763         0   0.15232E-03  732825.9 4058964.9    60.8     3.40     4.00
3.16     NO                    NO
 L0003764         0   0.15232E-03  732825.6 4058973.5    60.8     3.40     4.00
3.16     NO                    NO
 L0003765         0   0.15232E-03  732825.3 4058982.1    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003767         0   0.15232E-03  732824.8 4058999.3    60.8     3.40     4.00
3.16     NO                    NO
 L0003768         0   0.15232E-03  732824.6 4059007.9    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003770         0   0.15232E-03  732824.0 4059025.0    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003773         0   0.15232E-03  732823.3 4059050.8    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003775         0   0.15232E-03  732822.7 4059068.0    60.7     3.40     4.00
3.16     NO                    NO
 L0003776         0   0.15232E-03  732822.5 4059076.6    60.7     3.40     4.00
3.16     NO                    NO
 L0003777         0   0.15232E-03  732822.2 4059085.2    60.7     3.40     4.00
3.16     NO                    NO
 L0003778         0   0.15232E-03  732822.0 4059093.8    60.7     3.40     4.00
3.16     NO                    NO
 L0003779         0   0.15232E-03  732821.7 4059102.4    60.7     3.40     4.00
3.16     NO                    NO
 L0003780         0   0.15232E-03  732821.4 4059111.0    60.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003783         0   0.15232E-03  732820.7 4059136.8    60.6     3.40     4.00
3.16     NO                    NO
 L0003784         0   0.15232E-03  732820.4 4059145.4    60.6     3.40     4.00
3.16     NO                    NO
 L0003785         0   0.15232E-03  732820.1 4059154.0    60.6     3.40     4.00
3.16     NO                    NO
 L0003786         0   0.15232E-03  732819.9 4059162.6    60.6     3.40     4.00
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3.16     NO                     NO
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3.16     NO                     NO
 L0003788         0   0.15232E-03  732819.4 4059179.8    60.6     3.40     4.00
3.16     NO                     NO
 L0003789         0   0.15232E-03  732819.1 4059188.4    60.6     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003791         0   0.15232E-03  732818.6 4059205.6    60.6     3.40     4.00
3.16     NO                     NO
 L0003792         0   0.15232E-03  732818.3 4059214.2    60.6     3.40     4.00
3.16     NO                     NO
 L0003793         0   0.15232E-03  732818.1 4059222.8    60.6     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003795         0   0.15232E-03  732817.6 4059239.9    60.5     3.40     4.00
3.16     NO                     NO
 L0003796         0   0.15232E-03  732817.3 4059248.5    60.5     3.40     4.00
3.16     NO                     NO
 L0003797         0   0.15232E-03  732817.0 4059257.1    60.5     3.40     4.00
3.16     NO                     NO
 L0003798         0   0.15232E-03  732816.8 4059265.7    60.5     3.40     4.00
3.16     NO                     NO
 L0003799         0   0.15232E-03  732816.5 4059274.3    60.5     3.40     4.00
3.16     NO                     NO
 L0003800         0   0.15232E-03  732816.3 4059282.9    60.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  97
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0003801         0   0.15232E-03  732816.0 4059291.5    60.5     3.40     4.00
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3.16     NO                    NO
 L0003802         0   0.15232E-03  732815.7 4059300.1    60.5     3.40     4.00
3.16     NO                    NO
 L0003803         0   0.15232E-03  732815.5 4059308.7    60.5     3.40     4.00
3.16     NO                    NO
 L0003804         0   0.15232E-03  732815.2 4059317.3    60.5     3.40     4.00
3.16     NO                    NO
 L0003805         0   0.15232E-03  732815.0 4059325.9    60.4     3.40     4.00
3.16     NO                    NO
 L0003806         0   0.15232E-03  732814.7 4059334.5    60.4     3.40     4.00
3.16     NO                    NO
 L0003807         0   0.15232E-03  732814.4 4059343.1    60.4     3.40     4.00
3.16     NO                    NO
 L0003808         0   0.15232E-03  732814.2 4059351.7    60.4     3.40     4.00
3.16     NO                    NO
 L0003809         0   0.15232E-03  732813.9 4059360.3    60.4     3.40     4.00
3.16     NO                    NO
 L0003810         0   0.15232E-03  732813.7 4059368.9    60.4     3.40     4.00
3.16     NO                    NO
 L0003811         0   0.15232E-03  732813.4 4059377.5    60.4     3.40     4.00
3.16     NO                    NO
 L0003812         0   0.15232E-03  732813.1 4059386.1    60.4     3.40     4.00
3.16     NO                    NO
 L0003813         0   0.15232E-03  732812.9 4059394.7    60.4     3.40     4.00
3.16     NO                    NO
 L0003814         0   0.15232E-03  732812.6 4059403.3    60.4     3.40     4.00
3.16     NO                    NO
 L0003815         0   0.15232E-03  732812.4 4059411.9    60.3     3.40     4.00
3.16     NO                    NO
 L0003816         0   0.15232E-03  732812.1 4059420.5    60.3     3.40     4.00
3.16     NO                    NO
 L0003817         0   0.15232E-03  732811.8 4059429.1    60.3     3.40     4.00
3.16     NO                    NO
 L0003818         0   0.15232E-03  732811.6 4059437.7    60.3     3.40     4.00
3.16     NO                    NO
 L0003819         0   0.15232E-03  732811.3 4059446.3    60.3     3.40     4.00
3.16     NO                    NO
 L0003820         0   0.15232E-03  732811.1 4059454.9    60.3     3.40     4.00
3.16     NO                    NO
 L0003821         0   0.15232E-03  732810.8 4059463.4    60.3     3.40     4.00
3.16     NO                    NO
 L0003822         0   0.15232E-03  732810.6 4059472.0    60.3     3.40     4.00
3.16     NO                    NO
 L0003823         0   0.15232E-03  732810.3 4059480.6    60.3     3.40     4.00
3.16     NO                    NO
 L0003824         0   0.15232E-03  732810.0 4059489.2    60.3     3.40     4.00
3.16     NO                    NO
 L0003825         0   0.15232E-03  732809.8 4059497.8    60.3     3.40     4.00
3.16     NO                    NO
 L0003826         0   0.15232E-03  732809.5 4059506.4    60.3     3.40     4.00
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3.16     NO                     NO
 L0003827         0   0.15232E-03  732809.3 4059515.0    60.3     3.40     4.00
3.16     NO                     NO
 L0003828         0   0.15232E-03  732809.0 4059523.6    60.3     3.40     4.00
3.16     NO                     NO
 L0003829         0   0.15232E-03  732808.7 4059532.2    60.3     3.40     4.00
3.16     NO                     NO
 L0003830         0   0.15232E-03  732808.5 4059540.8    60.3     3.40     4.00
3.16     NO                     NO
 L0003831         0   0.15232E-03  732808.2 4059549.4    60.3     3.40     4.00
3.16     NO                     NO
 L0003832         0   0.15232E-03  732808.0 4059558.0    60.3     3.40     4.00
3.16     NO                     NO
 L0003833         0   0.15232E-03  732807.7 4059566.6    60.3     3.40     4.00
3.16     NO                     NO
 L0003834         0   0.15232E-03  732807.4 4059575.2    60.3     3.40     4.00
3.16     NO                     NO
 L0003835         0   0.15232E-03  732807.2 4059583.8    60.3     3.40     4.00
3.16     NO                     NO
 L0003836         0   0.15232E-03  732806.9 4059592.4    60.3     3.40     4.00
3.16     NO                     NO
 L0003837         0   0.15232E-03  732806.7 4059601.0    60.3     3.40     4.00
3.16     NO                     NO
 L0003838         0   0.15232E-03  732806.4 4059609.6    60.3     3.40     4.00
3.16     NO                     NO
 L0003839         0   0.15232E-03  732806.1 4059618.2    60.3     3.40     4.00
3.16     NO                     NO
 L0003840         0   0.15232E-03  732805.9 4059626.8    60.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0003841         0   0.15232E-03  732805.6 4059635.4    60.3     3.40     4.00
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3.16     NO                    NO
 L0003842         0   0.15232E-03  732805.4 4059644.0    60.3     3.40     4.00
3.16     NO                    NO
 L0003843         0   0.15232E-03  732805.1 4059652.6    60.4     3.40     4.00
3.16     NO                    NO
 L0003844         0   0.15232E-03  732804.8 4059661.2    60.4     3.40     4.00
3.16     NO                    NO
 L0003845         0   0.15232E-03  732804.6 4059669.8    60.4     3.40     4.00
3.16     NO                    NO
 L0003846         0   0.15232E-03  732804.3 4059678.3    60.4     3.40     4.00
3.16     NO                    NO
 L0003847         0   0.15232E-03  732804.1 4059686.9    60.4     3.40     4.00
3.16     NO                    NO
 L0003848         0   0.15232E-03  732803.8 4059695.5    60.4     3.40     4.00
3.16     NO                    NO
 L0003849         0   0.15232E-03  732803.5 4059704.1    60.4     3.40     4.00
3.16     NO                    NO
 L0003850         0   0.15232E-03  732803.3 4059712.7    60.4     3.40     4.00
3.16     NO                    NO
 L0003851         0   0.15232E-03  732803.0 4059721.3    60.4     3.40     4.00
3.16     NO                    NO
 L0003852         0   0.15232E-03  732802.8 4059729.9    60.4     3.40     4.00
3.16     NO                    NO
 L0003853         0   0.15232E-03  732802.5 4059738.5    60.4     3.40     4.00
3.16     NO                    NO
 L0003854         0   0.15232E-03  732802.2 4059747.1    60.4     3.40     4.00
3.16     NO                    NO
 L0003855         0   0.15232E-03  732802.0 4059755.7    60.4     3.40     4.00
3.16     NO                    NO
 L0003856         0   0.15232E-03  732801.7 4059764.3    60.4     3.40     4.00
3.16     NO                    NO
 L0003857         0   0.15232E-03  732801.5 4059772.9    60.4     3.40     4.00
3.16     NO                    NO
 L0003858         0   0.15232E-03  732801.2 4059781.5    60.4     3.40     4.00
3.16     NO                    NO
 L0003859         0   0.15232E-03  732801.0 4059790.1    60.4     3.40     4.00
3.16     NO                    NO
 L0003860         0   0.15232E-03  732800.7 4059798.7    60.4     3.40     4.00
3.16     NO                    NO
 L0003861         0   0.15232E-03  732800.4 4059807.3    60.4     3.40     4.00
3.16     NO                    NO
 L0003862         0   0.15232E-03  732800.2 4059815.9    60.4     3.40     4.00
3.16     NO                    NO
 L0003863         0   0.15232E-03  732799.9 4059824.5    60.3     3.40     4.00
3.16     NO                    NO
 L0003864         0   0.15232E-03  732799.7 4059833.1    60.3     3.40     4.00
3.16     NO                    NO
 L0003865         0   0.15232E-03  732799.4 4059841.7    60.3     3.40     4.00
3.16     NO                    NO
 L0003866         0   0.15232E-03  732799.1 4059850.3    60.3     3.40     4.00
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3.16     NO                     NO
 L0003867         0   0.15232E-03  732798.9 4059858.9    60.3     3.40     4.00
3.16     NO                     NO
 L0003868         0   0.15232E-03  732798.6 4059867.5    60.3     3.40     4.00
3.16     NO                     NO
 L0003869         0   0.15232E-03  732798.4 4059876.1    60.3     3.40     4.00
3.16     NO                     NO
 L0003870         0   0.15232E-03  732793.4 4059879.8    60.3     3.40     4.00
3.16     NO                     NO
 L0003871         0   0.15232E-03  732784.8 4059879.8    60.4     3.40     4.00
3.16     NO                     NO
 L0003872         0   0.15232E-03  732776.2 4059879.8    60.4     3.40     4.00
3.16     NO                     NO
 L0003873         0   0.15232E-03  732767.6 4059879.8    60.4     3.40     4.00
3.16     NO                     NO
 L0003874         0   0.15232E-03  732759.0 4059879.8    60.4     3.40     4.00
3.16     NO                     NO
 L0003875         0   0.15232E-03  732750.4 4059879.8    60.5     3.40     4.00
3.16     NO                     NO
 L0003876         0   0.15232E-03  732741.8 4059879.8    60.5     3.40     4.00
3.16     NO                     NO
 L0003877         0   0.15232E-03  732733.2 4059879.8    60.5     3.40     4.00
3.16     NO                     NO
 L0003878         0   0.15232E-03  732724.6 4059879.8    60.5     3.40     4.00
3.16     NO                     NO
 L0003879         0   0.15232E-03  732716.0 4059879.8    60.5     3.40     4.00
3.16     NO                     NO
 L0003880         0   0.15232E-03  732707.4 4059879.8    60.6     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0003881         0   0.15232E-03  732698.8 4059879.8    60.6     3.40     4.00
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3.16     NO                    NO
 L0003882         0   0.15232E-03  732690.2 4059879.8    60.6     3.40     4.00
3.16     NO                    NO
 L0003883         0   0.15232E-03  732681.6 4059879.8    60.7     3.40     4.00
3.16     NO                    NO
 L0003884         0   0.15232E-03  732673.0 4059879.8    60.7     3.40     4.00
3.16     NO                    NO
 L0003885         0   0.15232E-03  732664.4 4059879.8    60.7     3.40     4.00
3.16     NO                    NO
 L0003886         0   0.15232E-03  732655.8 4059879.8    60.7     3.40     4.00
3.16     NO                    NO
 L0003887         0   0.15232E-03  732647.2 4059879.8    60.7     3.40     4.00
3.16     NO                    NO
 L0003888         0   0.15232E-03  732638.6 4059879.8    60.7     3.40     4.00
3.16     NO                    NO
 L0003889         0   0.15232E-03  732630.0 4059879.8    60.8     3.40     4.00
3.16     NO                    NO
 L0003890         0   0.15232E-03  732621.4 4059879.8    60.8     3.40     4.00
3.16     NO                    NO
 L0003891         0   0.15232E-03  732612.8 4059879.8    60.8     3.40     4.00
3.16     NO                    NO
 L0003892         0   0.15232E-03  732604.2 4059879.8    60.8     3.40     4.00
3.16     NO                    NO
 L0003893         0   0.15232E-03  732595.6 4059879.8    60.8     3.40     4.00
3.16     NO                    NO
 L0003894         0   0.15232E-03  732587.0 4059879.8    60.9     3.40     4.00
3.16     NO                    NO
 L0003895         0   0.15232E-03  732578.4 4059879.8    60.9     3.40     4.00
3.16     NO                    NO
 L0003896         0   0.15232E-03  732569.8 4059879.8    60.9     3.40     4.00
3.16     NO                    NO
 L0003897         0   0.15232E-03  732561.2 4059879.8    60.9     3.40     4.00
3.16     NO                    NO
 L0003898         0   0.15232E-03  732552.6 4059879.8    61.0     3.40     4.00
3.16     NO                    NO
 L0003899         0   0.15232E-03  732544.0 4059879.8    61.0     3.40     4.00
3.16     NO                    NO
 L0003900         0   0.15232E-03  732535.4 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
 L0003901         0   0.15232E-03  732526.8 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
 L0003902         0   0.15232E-03  732518.2 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
 L0003903         0   0.15232E-03  732509.6 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
 L0003904         0   0.15232E-03  732501.0 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
 L0003905         0   0.15232E-03  732492.4 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
 L0003906         0   0.15232E-03  732483.8 4059879.8    61.2     3.40     4.00
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3.16     NO                     NO
 L0003907         0   0.15232E-03  732475.2 4059879.8    61.2     3.40     4.00
3.16     NO                     NO
 L0003908         0   0.15232E-03  732466.6 4059879.8    61.2     3.40     4.00
3.16     NO                     NO
 L0003909         0   0.15232E-03  732458.0 4059879.8    61.2     3.40     4.00
3.16     NO                     NO
 L0003910         0   0.15232E-03  732449.4 4059879.8    61.3     3.40     4.00
3.16     NO                     NO
 L0003911         0   0.15232E-03  732440.8 4059879.8    61.3     3.40     4.00
3.16     NO                     NO
 L0003912         0   0.15232E-03  732432.2 4059879.8    61.3     3.40     4.00
3.16     NO                     NO
 L0003913         0   0.15232E-03  732423.6 4059879.8    61.3     3.40     4.00
3.16     NO                     NO
 L0003914         0   0.15232E-03  732415.0 4059879.8    61.3     3.40     4.00
3.16     NO                     NO
 L0003915         0   0.15232E-03  732406.4 4059879.8    61.4     3.40     4.00
3.16     NO                     NO
 L0003916         0   0.15232E-03  732397.8 4059879.8    61.4     3.40     4.00
3.16     NO                     NO
 L0003917         0   0.15232E-03  732389.2 4059879.8    61.4     3.40     4.00
3.16     NO                     NO
 L0003918         0   0.15232E-03  732380.6 4059879.8    61.4     3.40     4.00
3.16     NO                     NO
 L0003919         0   0.15232E-03  732372.0 4059879.8    61.4     3.40     4.00
3.16     NO                     NO
 L0003920         0   0.15232E-03  732363.4 4059879.8    61.4     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0003921	0	0.15232E-03	732354.8	4059879.8	61.5	3.40	4.00			

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3.16     NO                    NO
 L0003922         0   0.15232E-03  732346.2 4059879.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003923         0   0.15232E-03  732337.6 4059879.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003924         0   0.15232E-03  732329.0 4059879.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003925         0   0.15232E-03  732320.4 4059879.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003926         0   0.15232E-03  732311.8 4059879.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003927         0   0.15232E-03  732303.2 4059879.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003928         0   0.15232E-03  732294.6 4059879.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003929         0   0.15232E-03  732286.0 4059879.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003930         0   0.15232E-03  732277.4 4059879.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003931         0   0.15232E-03  732268.8 4059879.8    61.7     3.40     4.00
3.16     NO                    NO
 L0003932         0   0.15232E-03  732260.2 4059879.8    61.7     3.40     4.00
3.16     NO                    NO
 L0003933         0   0.15232E-03  732251.6 4059879.8    61.7     3.40     4.00
3.16     NO                    NO
 L0003934         0   0.15232E-03  732243.0 4059879.8    61.7     3.40     4.00
3.16     NO                    NO
 L0003935         0   0.15232E-03  732234.4 4059879.8    61.8     3.40     4.00
3.16     NO                    NO
 L0003936         0   0.15232E-03  732225.8 4059879.8    61.8     3.40     4.00
3.16     NO                    NO
 L0003937         0   0.15232E-03  732217.2 4059879.8    61.8     3.40     4.00
3.16     NO                    NO
 L0003938         0   0.15232E-03  732208.6 4059879.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003939         0   0.15232E-03  732200.0 4059879.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003940         0   0.15232E-03  732191.4 4059879.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003941         0   0.15232E-03  732182.8 4059879.8    62.0     3.40     4.00
3.16     NO                    NO
 L0003942         0   0.15232E-03  732174.2 4059879.8    62.0     3.40     4.00
3.16     NO                    NO
 L0003943         0   0.15232E-03  732165.6 4059879.8    62.0     3.40     4.00
3.16     NO                    NO
 L0003944         0   0.15232E-03  732157.0 4059879.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003945         0   0.15232E-03  732148.4 4059879.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003946         0   0.15232E-03  732139.8 4059879.8    62.1     3.40     4.00
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3.16   NO   NO
 L0003947   0   0.15232E-03 732131.2 4059879.8   62.1   3.40   4.00
3.16   NO   NO
 L0003948   0   0.15232E-03 732122.6 4059879.8   62.2   3.40   4.00
3.16   NO   NO
 L0003949   0   0.15232E-03 732114.0 4059879.8   62.2   3.40   4.00
3.16   NO   NO
 L0003950   0   0.15232E-03 732105.4 4059879.8   62.2   3.40   4.00
3.16   NO   NO
 L0003951   0   0.15232E-03 732096.8 4059879.8   62.3   3.40   4.00
3.16   NO   NO
 L0003952   0   0.15232E-03 732088.2 4059879.8   62.3   3.40   4.00
3.16   NO   NO
 L0003953   0   0.15232E-03 732079.6 4059879.8   62.3   3.40   4.00
3.16   NO   NO
 L0003954   0   0.15232E-03 732071.0 4059879.8   62.4   3.40   4.00
3.16   NO   NO
 L0003955   0   0.15232E-03 732062.4 4059879.8   62.4   3.40   4.00
3.16   NO   NO
 L0003956   0   0.15232E-03 732053.8 4059879.8   62.4   3.40   4.00
3.16   NO   NO
 L0003957   0   0.15232E-03 732045.2 4059879.8   62.5   3.40   4.00
3.16   NO   NO
 L0003958   0   0.15232E-03 732036.6 4059879.8   62.5   3.40   4.00
3.16   NO   NO
 L0003959   0   0.15232E-03 732028.0 4059879.8   62.5   3.40   4.00
3.16   NO   NO
 L0003960   0   0.15232E-03 732019.4 4059879.8   62.6   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0003961   0   0.15232E-03 732010.8 4059879.8   62.6   3.40   4.00

3.16 NO NO
L0003962 0 0.15232E-03 732002.2 4059879.8 62.6 3.40 4.00
3.16 NO NO
L0003963 0 0.15232E-03 731993.6 4059879.8 62.7 3.40 4.00
3.16 NO NO
L0003964 0 0.15232E-03 731985.0 4059879.8 62.7 3.40 4.00
3.16 NO NO
L0003965 0 0.15232E-03 731976.4 4059879.8 62.8 3.40 4.00
3.16 NO NO
L0003966 0 0.15232E-03 731967.8 4059879.8 62.8 3.40 4.00
3.16 NO NO
L0003967 0 0.15232E-03 731959.2 4059879.8 62.8 3.40 4.00
3.16 NO NO
L0003968 0 0.15232E-03 731950.6 4059879.8 62.8 3.40 4.00
3.16 NO NO
L0003969 0 0.15232E-03 731942.0 4059879.8 62.8 3.40 4.00
3.16 NO NO
L0003970 0 0.15232E-03 731933.4 4059879.8 62.9 3.40 4.00
3.16 NO NO
L0003971 0 0.15232E-03 731924.8 4059879.8 62.9 3.40 4.00
3.16 NO NO
L0003972 0 0.15232E-03 731916.2 4059879.8 62.9 3.40 4.00
3.16 NO NO
L0003973 0 0.15232E-03 731907.6 4059879.8 63.0 3.40 4.00
3.16 NO NO
L0003974 0 0.15232E-03 731899.0 4059879.8 63.0 3.40 4.00
3.16 NO NO
L0003975 0 0.15232E-03 731890.4 4059879.8 63.0 3.40 4.00
3.16 NO NO
L0003976 0 0.15232E-03 731881.8 4059879.8 63.1 3.40 4.00
3.16 NO NO
L0003977 0 0.15232E-03 731873.2 4059879.8 63.1 3.40 4.00
3.16 NO NO
L0003978 0 0.15232E-03 731864.6 4059879.8 63.2 3.40 4.00
3.16 NO NO
L0003979 0 0.15232E-03 731862.6 4059873.3 63.2 3.40 4.00
3.16 NO NO
L0003980 0 0.15232E-03 731862.8 4059864.7 63.2 3.40 4.00
3.16 NO NO
L0003981 0 0.15232E-03 731863.0 4059856.1 63.2 3.40 4.00
3.16 NO NO
L0003982 0 0.15232E-03 731863.2 4059847.5 63.2 3.40 4.00
3.16 NO NO
L0003983 0 0.15232E-03 731863.4 4059838.9 63.2 3.40 4.00
3.16 NO NO
L0003984 0 0.15232E-03 731863.6 4059830.4 63.2 3.40 4.00
3.16 NO NO
L0003985 0 0.15232E-03 731863.8 4059821.8 63.2 3.40 4.00
3.16 NO NO
L0003986 0 0.15232E-03 731864.0 4059813.2 63.2 3.40 4.00

3.16 NO NO
L0003987 0 0.15232E-03 731864.2 4059804.6 63.2 3.40 4.00
3.16 NO NO
L0003988 0 0.15232E-03 731864.4 4059796.0 63.2 3.40 4.00
3.16 NO NO
L0003989 0 0.15232E-03 731864.6 4059787.4 63.2 3.40 4.00
3.16 NO NO
L0003990 0 0.15232E-03 731864.8 4059778.8 63.1 3.40 4.00
3.16 NO NO
L0003991 0 0.15232E-03 731865.0 4059770.2 63.1 3.40 4.00
3.16 NO NO
L0003992 0 0.15232E-03 731865.2 4059761.6 63.1 3.40 4.00
3.16 NO NO
L0003993 0 0.15232E-03 731865.4 4059753.0 63.1 3.40 4.00
3.16 NO NO
L0003994 0 0.15232E-03 731865.6 4059744.4 63.1 3.40 4.00
3.16 NO NO
L0003995 0 0.15232E-03 731865.8 4059735.8 63.1 3.40 4.00
3.16 NO NO
L0003996 0 0.15232E-03 731866.0 4059727.2 63.1 3.40 4.00
3.16 NO NO
L0003997 0 0.15232E-03 731866.2 4059718.6 63.1 3.40 4.00
3.16 NO NO
L0003998 0 0.15232E-03 731866.4 4059710.0 63.1 3.40 4.00
3.16 NO NO
L0003999 0 0.15232E-03 731866.6 4059701.4 63.1 3.40 4.00
3.16 NO NO
L0004000 0 0.15232E-03 731866.8 4059692.8 63.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0004001	0	0.15232E-03	731867.0	4059684.2	63.1	3.40	4.00				

```
3.16     NO                    NO
 L0004002         0   0.15232E-03  731867.2 4059675.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004003         0   0.15232E-03  731867.4 4059667.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004004         0   0.15232E-03  731867.6 4059658.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004005         0   0.15232E-03  731867.8 4059649.8    63.1     3.40     4.00
3.16     NO                    NO
 L0004006         0   0.15232E-03  731868.0 4059641.2    63.1     3.40     4.00
3.16     NO                    NO
 L0004007         0   0.15232E-03  731868.2 4059632.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004008         0   0.15232E-03  731868.4 4059624.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004009         0   0.15232E-03  731868.6 4059615.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004010         0   0.15232E-03  731868.8 4059606.8    63.1     3.40     4.00
3.16     NO                    NO
 L0004011         0   0.15232E-03  731869.0 4059598.2    63.1     3.40     4.00
3.16     NO                    NO
 L0004012         0   0.15232E-03  731869.2 4059589.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004013         0   0.15232E-03  731869.4 4059581.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004014         0   0.15232E-03  731869.6 4059572.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004015         0   0.15232E-03  731869.8 4059563.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004016         0   0.15232E-03  731870.0 4059555.2    63.2     3.40     4.00
3.16     NO                    NO
 L0004017         0   0.15232E-03  731870.2 4059546.6    63.2     3.40     4.00
3.16     NO                    NO
 L0004018         0   0.15232E-03  731870.4 4059538.0    63.2     3.40     4.00
3.16     NO                    NO
 L0004019         0   0.15232E-03  731870.6 4059529.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004020         0   0.15232E-03  731870.8 4059520.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004021         0   0.15232E-03  731871.0 4059512.2    63.2     3.40     4.00
3.16     NO                    NO
 L0004022         0   0.15232E-03  731874.6 4059507.3    63.2     3.40     4.00
3.16     NO                    NO
 L0004023         0   0.15232E-03  731883.2 4059507.5    63.1     3.40     4.00
3.16     NO                    NO
 L0004024         0   0.15232E-03  731891.8 4059507.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004025         0   0.15232E-03  731900.4 4059507.8    63.0     3.40     4.00
3.16     NO                    NO
 L0004026         0   0.15232E-03  731909.0 4059508.0    63.0     3.40     4.00
```

3.16 NO NO
L0004027 0 0.15232E-03 731917.6 4059508.2 63.0 3.40 4.00
3.16 NO NO
L0004028 0 0.15232E-03 731926.2 4059508.4 62.9 3.40 4.00
3.16 NO NO
L0004029 0 0.15232E-03 731934.8 4059508.6 62.9 3.40 4.00
3.16 NO NO
L0004030 0 0.15232E-03 731943.4 4059508.8 62.9 3.40 4.00
3.16 NO NO
L0004031 0 0.15232E-03 731952.0 4059509.0 62.8 3.40 4.00
3.16 NO NO
L0004032 0 0.15232E-03 731960.6 4059509.2 62.8 3.40 4.00
3.16 NO NO
L0004033 0 0.15232E-03 731969.2 4059509.4 62.8 3.40 4.00
3.16 NO NO
L0004034 0 0.15232E-03 731977.8 4059509.6 62.7 3.40 4.00
3.16 NO NO
L0004035 0 0.15232E-03 731986.4 4059509.8 62.7 3.40 4.00
3.16 NO NO
L0004036 0 0.15232E-03 731995.0 4059510.0 62.7 3.40 4.00
3.16 NO NO
L0004037 0 0.15232E-03 732003.6 4059510.2 62.6 3.40 4.00
3.16 NO NO
L0004038 0 0.15232E-03 732012.2 4059510.4 62.6 3.40 4.00
3.16 NO NO
L0004039 0 0.15232E-03 732020.8 4059510.5 62.6 3.40 4.00
3.16 NO NO
L0004040 0 0.15232E-03 732029.4 4059510.7 62.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0004041	0	0.15232E-03	732038.0	4059510.9	62.5	3.40	4.00			

```
3.16     NO                    NO
 L0004042         0   0.15232E-03  732046.6 4059511.1    62.4     3.40     4.00
3.16     NO                    NO
 L0004043         0   0.15232E-03  732055.2 4059511.3    62.4     3.40     4.00
3.16     NO                    NO
 L0004044         0   0.15232E-03  732063.8 4059511.5    62.4     3.40     4.00
3.16     NO                    NO
 L0004045         0   0.15232E-03  732072.4 4059511.7    62.4     3.40     4.00
3.16     NO                    NO
 L0004046         0   0.15232E-03  732081.0 4059511.9    62.3     3.40     4.00
3.16     NO                    NO
 L0004047         0   0.15232E-03  732089.6 4059512.1    62.3     3.40     4.00
3.16     NO                    NO
 L0004048         0   0.15232E-03  732098.2 4059512.3    62.2     3.40     4.00
3.16     NO                    NO
 L0004049         0   0.15232E-03  732106.8 4059512.5    62.2     3.40     4.00
3.16     NO                    NO
 L0004050         0   0.15232E-03  732115.4 4059512.7    62.2     3.40     4.00
3.16     NO                    NO
 L0004051         0   0.15232E-03  732124.0 4059512.9    62.1     3.40     4.00
3.16     NO                    NO
 L0004052         0   0.15232E-03  732132.6 4059513.1    62.1     3.40     4.00
3.16     NO                    NO
 L0004053         0   0.15232E-03  732141.2 4059513.3    62.1     3.40     4.00
3.16     NO                    NO
 L0004054         0   0.15232E-03  732149.8 4059513.4    62.0     3.40     4.00
3.16     NO                    NO
 L0004055         0   0.15232E-03  732158.4 4059513.6    62.0     3.40     4.00
3.16     NO                    NO
 L0004056         0   0.15232E-03  732167.0 4059513.8    61.9     3.40     4.00
3.16     NO                    NO
 L0004057         0   0.15232E-03  732175.5 4059514.0    61.9     3.40     4.00
3.16     NO                    NO
 L0004058         0   0.15232E-03  732184.1 4059514.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004059         0   0.15232E-03  732192.7 4059514.4    61.8     3.40     4.00
3.16     NO                    NO
 L0004060         0   0.15232E-03  732201.3 4059514.6    61.8     3.40     4.00
3.16     NO                    NO
 L0004061         0   0.15232E-03  732209.9 4059514.8    61.8     3.40     4.00
3.16     NO                    NO
 L0004062         0   0.15232E-03  732218.5 4059515.0    61.8     3.40     4.00
3.16     NO                    NO
 L0004063         0   0.15232E-03  732227.1 4059515.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004064         0   0.15232E-03  732235.7 4059515.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004065         0   0.15232E-03  732244.3 4059515.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004066         0   0.15232E-03  732252.9 4059515.8    61.6     3.40     4.00
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3.16   NO   NO
 L0004067   0   0.15232E-03 732261.5 4059516.0   61.6   3.40   4.00
3.16   NO   NO
 L0004068   0   0.15232E-03 732270.1 4059516.2   61.6   3.40   4.00
3.16   NO   NO
 L0004069   0   0.15232E-03 732278.7 4059516.3   61.6   3.40   4.00
3.16   NO   NO
 L0004070   0   0.15232E-03 732287.3 4059516.5   61.6   3.40   4.00
3.16   NO   NO
 L0004071   0   0.15232E-03 732295.9 4059516.7   61.6   3.40   4.00
3.16   NO   NO
 L0004072   0   0.15232E-03 732304.5 4059516.9   61.5   3.40   4.00
3.16   NO   NO
 L0004073   0   0.15232E-03 732313.1 4059517.1   61.5   3.40   4.00
3.16   NO   NO
 L0004074   0   0.15232E-03 732321.7 4059517.3   61.5   3.40   4.00
3.16   NO   NO
 L0004075   0   0.15232E-03 732330.3 4059517.5   61.5   3.40   4.00
3.16   NO   NO
 L0004076   0   0.15232E-03 732338.9 4059517.7   61.5   3.40   4.00
3.16   NO   NO
 L0004077   0   0.15232E-03 732347.5 4059517.9   61.5   3.40   4.00
3.16   NO   NO
 L0004078   0   0.15232E-03 732356.1 4059518.1   61.4   3.40   4.00
3.16   NO   NO
 L0004079   0   0.15232E-03 732364.7 4059518.3   61.4   3.40   4.00
3.16   NO   NO
 L0004080   0   0.15232E-03 732373.3 4059518.5   61.4   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0004081   0   0.15232E-03 732381.9 4059518.7   61.4   3.40   4.00

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3.16     NO                    NO
 L0004082         0   0.15232E-03  732390.5 4059518.9    61.4     3.40     4.00
3.16     NO                    NO
 L0004083         0   0.15232E-03  732399.1 4059519.0    61.3     3.40     4.00
3.16     NO                    NO
 L0004084         0   0.15232E-03  732407.7 4059519.2    61.3     3.40     4.00
3.16     NO                    NO
 L0004085         0   0.15232E-03  732416.3 4059519.4    61.3     3.40     4.00
3.16     NO                    NO
 L0004086         0   0.15232E-03  732424.9 4059519.6    61.3     3.40     4.00
3.16     NO                    NO
 L0004087         0   0.15232E-03  732433.5 4059519.8    61.3     3.40     4.00
3.16     NO                    NO
 L0004088         0   0.15232E-03  732442.1 4059520.0    61.3     3.40     4.00
3.16     NO                    NO
 L0004089         0   0.15232E-03  732450.7 4059520.2    61.2     3.40     4.00
3.16     NO                    NO
 L0004090         0   0.15232E-03  732459.3 4059520.4    61.2     3.40     4.00
3.16     NO                    NO
 L0004091         0   0.15232E-03  732467.9 4059520.6    61.2     3.40     4.00
3.16     NO                    NO
 L0004092         0   0.15232E-03  732476.5 4059520.8    61.2     3.40     4.00
3.16     NO                    NO
 L0004093         0   0.15232E-03  732485.1 4059521.0    61.2     3.40     4.00
3.16     NO                    NO
 L0004094         0   0.15232E-03  732493.7 4059521.2    61.2     3.40     4.00
3.16     NO                    NO
 L0004095         0   0.15232E-03  732502.3 4059521.4    61.1     3.40     4.00
3.16     NO                    NO
 L0004096         0   0.15232E-03  732510.9 4059521.6    61.1     3.40     4.00
3.16     NO                    NO
 L0004097         0   0.15232E-03  732519.5 4059521.8    61.1     3.40     4.00
3.16     NO                    NO
 L0004098         0   0.15232E-03  732528.1 4059521.9    61.1     3.40     4.00
3.16     NO                    NO
 L0004099         0   0.15232E-03  732536.7 4059522.1    61.1     3.40     4.00
3.16     NO                    NO
 L0004100         0   0.15232E-03  732545.3 4059522.3    61.1     3.40     4.00
3.16     NO                    NO
 L0004101         0   0.15232E-03  732553.9 4059522.5    61.0     3.40     4.00
3.16     NO                    NO
 L0004102         0   0.15232E-03  732562.5 4059522.7    61.0     3.40     4.00
3.16     NO                    NO
 L0004103         0   0.15232E-03  732571.0 4059522.9    60.9     3.40     4.00
3.16     NO                    NO
 L0004104         0   0.15232E-03  732579.6 4059523.1    60.9     3.40     4.00
3.16     NO                    NO
 L0004105         0   0.15232E-03  732588.2 4059523.3    60.9     3.40     4.00
3.16     NO                    NO
 L0004106         0   0.15232E-03  732596.8 4059523.5    60.9     3.40     4.00
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3.16 NO NO
L0004107 0 0.15232E-03 732605.4 4059523.7 60.9 3.40 4.00
3.16 NO NO
L0004108 0 0.15232E-03 732614.0 4059523.9 60.9 3.40 4.00
3.16 NO NO
L0004109 0 0.15232E-03 732622.6 4059524.1 60.8 3.40 4.00
3.16 NO NO
L0004110 0 0.15232E-03 732631.2 4059524.3 60.8 3.40 4.00
3.16 NO NO
L0004111 0 0.15232E-03 732639.8 4059524.5 60.8 3.40 4.00
3.16 NO NO
L0004112 0 0.15232E-03 732642.3 4059530.7 60.8 3.40 4.00
3.16 NO NO
L0004113 0 0.15232E-03 732642.3 4059539.3 60.8 3.40 4.00
3.16 NO NO
L0004114 0 0.15232E-03 732642.3 4059547.9 60.8 3.40 4.00
3.16 NO NO
L0004115 0 0.15232E-03 732642.3 4059556.5 60.8 3.40 4.00
3.16 NO NO
L0004116 0 0.15232E-03 732642.3 4059565.1 60.8 3.40 4.00
3.16 NO NO
L0004117 0 0.15232E-03 732642.3 4059573.7 60.8 3.40 4.00
3.16 NO NO
L0004118 0 0.15232E-03 732642.3 4059582.3 60.8 3.40 4.00
3.16 NO NO
L0004119 0 0.15232E-03 732642.3 4059590.9 60.8 3.40 4.00
3.16 NO NO
L0004120 0 0.15232E-03 732642.3 4059599.5 60.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0004121	0	0.15232E-03	732642.3	4059608.1	60.8	3.40	4.00			

```
3.16     NO                    NO
 L0004122         0   0.15232E-03  732642.3 4059616.7    60.8     3.40     4.00
3.16     NO                    NO
 L0004123         0   0.15232E-03  732642.3 4059625.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004124         0   0.15232E-03  732642.3 4059633.9    60.8     3.40     4.00
3.16     NO                    NO
 L0004125         0   0.15232E-03  732642.3 4059642.5    60.8     3.40     4.00
3.16     NO                    NO
 L0004126         0   0.15232E-03  732642.3 4059651.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004127         0   0.15232E-03  732642.3 4059659.7    60.8     3.40     4.00
3.16     NO                    NO
 L0004128         0   0.15232E-03  732642.3 4059668.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004129         0   0.15232E-03  732642.3 4059676.9    60.8     3.40     4.00
3.16     NO                    NO
 L0004130         0   0.15232E-03  732642.3 4059685.5    60.8     3.40     4.00
3.16     NO                    NO
 L0004131         0   0.15232E-03  732642.3 4059694.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004132         0   0.15232E-03  732642.3 4059702.7    60.8     3.40     4.00
3.16     NO                    NO
 L0004133         0   0.15232E-03  732642.3 4059711.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004134         0   0.15232E-03  732642.3 4059719.9    60.8     3.40     4.00
3.16     NO                    NO
 L0004135         0   0.15232E-03  732642.3 4059728.5    60.8     3.40     4.00
3.16     NO                    NO
 L0004136         0   0.15232E-03  732642.3 4059737.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004137         0   0.15232E-03  732637.7 4059741.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004138         0   0.15232E-03  732629.1 4059741.0    60.8     3.40     4.00
3.16     NO                    NO
 L0004139         0   0.15232E-03  732620.6 4059740.8    60.8     3.40     4.00
3.16     NO                    NO
 L0004140         0   0.15232E-03  732612.0 4059740.7    60.9     3.40     4.00
3.16     NO                    NO
 L0004141         0   0.15232E-03  732603.4 4059740.6    60.9     3.40     4.00
3.16     NO                    NO
 L0004142         0   0.15232E-03  732594.8 4059740.5    60.9     3.40     4.00
3.16     NO                    NO
 L0004143         0   0.15232E-03  732586.2 4059740.4    60.9     3.40     4.00
3.16     NO                    NO
 L0004144         0   0.15232E-03  732577.6 4059740.3    60.9     3.40     4.00
3.16     NO                    NO
 L0004145         0   0.15232E-03  732569.0 4059740.2    60.9     3.40     4.00
3.16     NO                    NO
 L0004146         0   0.15232E-03  732560.4 4059740.0    61.0     3.40     4.00
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3.16     NO                     NO
 L0004147         0   0.15232E-03  732551.8 4059739.9    61.0     3.40     4.00
3.16     NO                     NO
 L0004148         0   0.15232E-03  732543.2 4059739.8    61.0     3.40     4.00
3.16     NO                     NO
 L0004149         0   0.15232E-03  732534.6 4059739.7    61.0     3.40     4.00
3.16     NO                     NO
 L0004150         0   0.15232E-03  732526.0 4059739.6    61.0     3.40     4.00
3.16     NO                     NO
 L0004151         0   0.15232E-03  732517.4 4059739.5    61.0     3.40     4.00
3.16     NO                     NO
 L0004152         0   0.15232E-03  732508.8 4059739.3    61.1     3.40     4.00
3.16     NO                     NO
 L0004153         0   0.15232E-03  732500.2 4059739.2    61.1     3.40     4.00
3.16     NO                     NO
 L0004154         0   0.15232E-03  732491.6 4059739.1    61.1     3.40     4.00
3.16     NO                     NO
 L0004155         0   0.15232E-03  732483.0 4059739.0    61.2     3.40     4.00
3.16     NO                     NO
 L0004156         0   0.15232E-03  732474.4 4059738.9    61.2     3.40     4.00
3.16     NO                     NO
 L0004157         0   0.15232E-03  732465.8 4059738.8    61.2     3.40     4.00
3.16     NO                     NO
 L0004158         0   0.15232E-03  732457.2 4059738.6    61.2     3.40     4.00
3.16     NO                     NO
 L0004159         0   0.15232E-03  732448.6 4059738.5    61.2     3.40     4.00
3.16     NO                     NO
 L0004160         0   0.15232E-03  732440.0 4059738.4    61.3     3.40     4.00
3.16     NO                     NO
```


*** VOLUME SOURCE DATA ***

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               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0004161         0   0.15232E-03  732431.4 4059738.3    61.3     3.40     4.00
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3.16     NO                    NO
 L0004162         0   0.15232E-03  732422.8 4059738.2    61.3     3.40     4.00
3.16     NO                    NO
 L0004163         0   0.15232E-03  732414.2 4059738.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004164         0   0.15232E-03  732405.6 4059737.9    61.3     3.40     4.00
3.16     NO                    NO
 L0004165         0   0.15232E-03  732397.0 4059737.8    61.3     3.40     4.00
3.16     NO                    NO
 L0004166         0   0.15232E-03  732388.4 4059737.7    61.4     3.40     4.00
3.16     NO                    NO
 L0004167         0   0.15232E-03  732379.8 4059737.6    61.4     3.40     4.00
3.16     NO                    NO
 L0004168         0   0.15232E-03  732371.2 4059737.5    61.4     3.40     4.00
3.16     NO                    NO
 L0004169         0   0.15232E-03  732362.6 4059737.4    61.4     3.40     4.00
3.16     NO                    NO
 L0004170         0   0.15232E-03  732354.0 4059737.2    61.4     3.40     4.00
3.16     NO                    NO
 L0004171         0   0.15232E-03  732345.4 4059737.1    61.4     3.40     4.00
3.16     NO                    NO
 L0004172         0   0.15232E-03  732336.8 4059737.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004173         0   0.15232E-03  732328.2 4059736.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004174         0   0.15232E-03  732319.6 4059736.8    61.5     3.40     4.00
3.16     NO                    NO
 L0004175         0   0.15232E-03  732311.0 4059736.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004176         0   0.15232E-03  732302.4 4059736.5    61.5     3.40     4.00
3.16     NO                    NO
 L0004177         0   0.15232E-03  732293.8 4059736.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004178         0   0.15232E-03  732285.2 4059736.3    61.6     3.40     4.00
3.16     NO                    NO
 L0004179         0   0.15232E-03  732276.6 4059736.2    61.6     3.40     4.00
3.16     NO                    NO
 L0004180         0   0.15232E-03  732268.0 4059736.1    61.6     3.40     4.00
3.16     NO                    NO
 L0004181         0   0.15232E-03  732259.4 4059736.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004182         0   0.15232E-03  732250.8 4059735.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004183         0   0.15232E-03  732242.2 4059735.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004184         0   0.15232E-03  732233.6 4059735.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004185         0   0.15232E-03  732225.0 4059735.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004186         0   0.15232E-03  732216.4 4059735.4    61.8     3.40     4.00
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3.16 NO NO
L0004187 0 0.15232E-03 732207.8 4059735.3 61.8 3.40 4.00
3.16 NO NO
L0004188 0 0.15232E-03 732199.2 4059735.2 61.8 3.40 4.00
3.16 NO NO
L0004189 0 0.15232E-03 732190.6 4059735.0 61.9 3.40 4.00
3.16 NO NO
L0004190 0 0.15232E-03 732182.0 4059734.9 61.9 3.40 4.00
3.16 NO NO
L0004191 0 0.15232E-03 732173.4 4059734.8 61.9 3.40 4.00
3.16 NO NO
L0004192 0 0.15232E-03 732164.8 4059734.7 62.0 3.40 4.00
3.16 NO NO
L0004193 0 0.15232E-03 732156.2 4059734.6 62.0 3.40 4.00
3.16 NO NO
L0004194 0 0.15232E-03 732147.6 4059734.5 62.0 3.40 4.00
3.16 NO NO
L0004195 0 0.15232E-03 732139.0 4059734.3 62.1 3.40 4.00
3.16 NO NO
L0004196 0 0.15232E-03 732130.4 4059734.2 62.1 3.40 4.00
3.16 NO NO
L0004197 0 0.15232E-03 732121.8 4059734.1 62.1 3.40 4.00
3.16 NO NO
L0004198 0 0.15232E-03 732113.2 4059734.0 62.2 3.40 4.00
3.16 NO NO
L0004199 0 0.15232E-03 732104.6 4059733.9 62.2 3.40 4.00
3.16 NO NO
L0004200 0 0.15232E-03 732096.0 4059733.8 62.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0004201	0	0.15232E-03	732087.4	4059733.6	62.3	3.40	4.00				

```
3.16     NO                    NO
 L0004202         0   0.15232E-03  732078.8 4059733.5    62.3     3.40     4.00
3.16     NO                    NO
 L0004203         0   0.15232E-03  732070.2 4059733.4    62.3     3.40     4.00
3.16     NO                    NO
 L0004204         0   0.15232E-03  732061.6 4059733.3    62.4     3.40     4.00
3.16     NO                    NO
 L0004205         0   0.15232E-03  732053.0 4059733.2    62.4     3.40     4.00
3.16     NO                    NO
 L0004206         0   0.15232E-03  732044.4 4059733.1    62.4     3.40     4.00
3.16     NO                    NO
 L0004207         0   0.15232E-03  732035.8 4059732.9    62.5     3.40     4.00
3.16     NO                    NO
 L0004208         0   0.15232E-03  732027.2 4059732.8    62.5     3.40     4.00
3.16     NO                    NO
 L0004209         0   0.15232E-03  732018.6 4059732.7    62.5     3.40     4.00
3.16     NO                    NO
 L0004210         0   0.15232E-03  732010.0 4059732.6    62.6     3.40     4.00
3.16     NO                    NO
 L0004211         0   0.15232E-03  732001.4 4059732.5    62.6     3.40     4.00
3.16     NO                    NO
 L0004212         0   0.15232E-03  732001.1 4059724.2    62.6     3.40     4.00
3.16     NO                    NO
 L0004213         0   0.15232E-03  732001.1 4059715.6    62.6     3.40     4.00
3.16     NO                    NO
 L0004214         0   0.15232E-03  732001.1 4059707.0    62.6     3.40     4.00
3.16     NO                    NO
 L0004215         0   0.15232E-03  732001.1 4059698.4    62.6     3.40     4.00
3.16     NO                    NO
 L0004216         0   0.15232E-03  732001.1 4059689.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004217         0   0.15232E-03  732001.1 4059681.2    62.6     3.40     4.00
3.16     NO                    NO
 L0004218         0   0.15232E-03  732001.1 4059672.6    62.6     3.40     4.00
3.16     NO                    NO
 L0004219         0   0.15232E-03  732001.1 4059664.0    62.6     3.40     4.00
3.16     NO                    NO
 L0004220         0   0.15232E-03  732001.1 4059655.4    62.6     3.40     4.00
3.16     NO                    NO
 L0004221         0   0.15232E-03  732001.1 4059646.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004222         0   0.15232E-03  732001.1 4059638.2    62.6     3.40     4.00
3.16     NO                    NO
 L0004223         0   0.15232E-03  732008.6 4059637.0    62.6     3.40     4.00
3.16     NO                    NO
 L0004224         0   0.15232E-03  732017.2 4059636.9    62.6     3.40     4.00
3.16     NO                    NO
 L0004225         0   0.15232E-03  732025.8 4059636.7    62.5     3.40     4.00
3.16     NO                    NO
 L0004226         0   0.15232E-03  732034.4 4059636.6    62.5     3.40     4.00
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3.16     NO                     NO
 L0004227         0   0.15232E-03  732043.0 4059636.4    62.5     3.40     4.00
3.16     NO                     NO
 L0004228         0   0.15232E-03  732051.6 4059636.3    62.4     3.40     4.00
3.16     NO                     NO
 L0004229         0   0.15232E-03  732060.2 4059636.1    62.4     3.40     4.00
3.16     NO                     NO
 L0004230         0   0.15232E-03  732068.8 4059636.0    62.3     3.40     4.00
3.16     NO                     NO
 L0004231         0   0.15232E-03  732077.4 4059635.8    62.3     3.40     4.00
3.16     NO                     NO
 L0004232         0   0.15232E-03  732086.0 4059635.7    62.3     3.40     4.00
3.16     NO                     NO
 L0004233         0   0.15232E-03  732094.6 4059635.5    62.3     3.40     4.00
3.16     NO                     NO
 L0004234         0   0.15232E-03  732103.2 4059635.4    62.2     3.40     4.00
3.16     NO                     NO
 L0004235         0   0.15232E-03  732111.8 4059635.3    62.2     3.40     4.00
3.16     NO                     NO
 L0004236         0   0.15232E-03  732120.4 4059635.1    62.1     3.40     4.00
3.16     NO                     NO
 L0004237         0   0.15232E-03  732129.0 4059635.0    62.1     3.40     4.00
3.16     NO                     NO
 L0004238         0   0.15232E-03  732137.6 4059634.8    62.0     3.40     4.00
3.16     NO                     NO
 L0004239         0   0.15232E-03  732146.2 4059634.7    62.0     3.40     4.00
3.16     NO                     NO
 L0004240         0   0.15232E-03  732154.8 4059634.5    61.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 108
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0004241         0   0.15232E-03  732163.4 4059634.4    61.9     3.40     4.00
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3.16     NO                    NO
 L0004242         0   0.15232E-03  732172.0 4059634.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004243         0   0.15232E-03  732180.6 4059634.1    61.8     3.40     4.00
3.16     NO                    NO
 L0004244         0   0.15232E-03  732189.2 4059633.9    61.8     3.40     4.00
3.16     NO                    NO
 L0004245         0   0.15232E-03  732197.8 4059633.8    61.8     3.40     4.00
3.16     NO                    NO
 L0004246         0   0.15232E-03  732206.4 4059633.6    61.8     3.40     4.00
3.16     NO                    NO
 L0004247         0   0.15232E-03  732215.0 4059633.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004248         0   0.15232E-03  732223.6 4059633.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004249         0   0.15232E-03  732232.2 4059633.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004250         0   0.15232E-03  732240.8 4059633.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004251         0   0.15232E-03  732249.4 4059632.9    61.6     3.40     4.00
3.16     NO                    NO
 L0004252         0   0.15232E-03  732258.0 4059632.7    61.6     3.40     4.00
3.16     NO                    NO
 L0004253         0   0.15232E-03  732266.6 4059632.6    61.6     3.40     4.00
3.16     NO                    NO
 L0004254         0   0.15232E-03  732275.2 4059632.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004255         0   0.15232E-03  732283.8 4059632.3    61.6     3.40     4.00
3.16     NO                    NO
 L0004256         0   0.15232E-03  732292.3 4059632.1    61.6     3.40     4.00
3.16     NO                    NO
 L0004257         0   0.15232E-03  732300.9 4059632.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004258         0   0.15232E-03  732309.5 4059631.8    61.5     3.40     4.00
3.16     NO                    NO
 L0004259         0   0.15232E-03  732318.1 4059631.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004260         0   0.15232E-03  732326.7 4059631.5    61.5     3.40     4.00
3.16     NO                    NO
 L0004261         0   0.15232E-03  732335.3 4059631.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004262         0   0.15232E-03  732343.9 4059631.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004263         0   0.15232E-03  732352.5 4059631.1    61.4     3.40     4.00
3.16     NO                    NO
 L0004264         0   0.15232E-03  732361.1 4059631.0    61.4     3.40     4.00
3.16     NO                    NO
 L0004265         0   0.15232E-03  732369.7 4059630.8    61.4     3.40     4.00
3.16     NO                    NO
 L0004266         0   0.15232E-03  732378.3 4059630.7    61.4     3.40     4.00
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3.16 NO NO
L0004267 0 0.15232E-03 732386.9 4059630.5 61.4 3.40 4.00
3.16 NO NO
L0004268 0 0.15232E-03 732395.5 4059630.4 61.3 3.40 4.00
3.16 NO NO
L0004269 0 0.15232E-03 732404.1 4059630.2 61.3 3.40 4.00
3.16 NO NO
L0004270 0 0.15232E-03 732412.7 4059630.1 61.3 3.40 4.00
3.16 NO NO
L0004271 0 0.15232E-03 732421.3 4059629.9 61.3 3.40 4.00
3.16 NO NO
L0004272 0 0.15232E-03 732429.9 4059629.8 61.3 3.40 4.00
3.16 NO NO
L0004273 0 0.15232E-03 732438.5 4059629.6 61.3 3.40 4.00
3.16 NO NO
L0004274 0 0.15232E-03 732447.1 4059629.5 61.2 3.40 4.00
3.16 NO NO
L0004275 0 0.15232E-03 732455.7 4059629.3 61.2 3.40 4.00
3.16 NO NO
L0004276 0 0.15232E-03 732464.3 4059629.2 61.2 3.40 4.00
3.16 NO NO
L0004277 0 0.15232E-03 732472.9 4059629.0 61.2 3.40 4.00
3.16 NO NO
L0004278 0 0.15232E-03 732481.5 4059628.9 61.2 3.40 4.00
3.16 NO NO
L0004279 0 0.15232E-03 732490.1 4059628.7 61.2 3.40 4.00
3.16 NO NO
L0004280 0 0.15232E-03 732498.7 4059628.6 61.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0004281	0	0.15232E-03	732651.1	4059355.6	60.8	3.40	4.00			

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3.16     NO                    NO
 L0004282         0   0.15232E-03  732651.4 4059347.0    60.8     3.40     4.00
3.16     NO                    NO
 L0004283         0   0.15232E-03  732651.8 4059338.4    60.8     3.40     4.00
3.16     NO                    NO
 L0004284         0   0.15232E-03  732652.1 4059329.8    60.9     3.40     4.00
3.16     NO                    NO
 L0004285         0   0.15232E-03  732652.4 4059321.2    60.9     3.40     4.00
3.16     NO                    NO
 L0004286         0   0.15232E-03  732652.8 4059312.6    60.9     3.40     4.00
3.16     NO                    NO
 L0004287         0   0.15232E-03  732653.1 4059304.0    60.9     3.40     4.00
3.16     NO                    NO
 L0004288         0   0.15232E-03  732653.4 4059295.4    60.9     3.40     4.00
3.16     NO                    NO
 L0004289         0   0.15232E-03  732653.8 4059286.8    60.9     3.40     4.00
3.16     NO                    NO
 L0004290         0   0.15232E-03  732654.1 4059278.2    60.9     3.40     4.00
3.16     NO                    NO
 L0004291         0   0.15232E-03  732654.4 4059269.6    60.9     3.40     4.00
3.16     NO                    NO
 L0004292         0   0.15232E-03  732654.7 4059261.0    60.9     3.40     4.00
3.16     NO                    NO
 L0004293         0   0.15232E-03  732655.1 4059252.5    60.9     3.40     4.00
3.16     NO                    NO
 L0004294         0   0.15232E-03  732655.4 4059243.9    60.9     3.40     4.00
3.16     NO                    NO
 L0004295         0   0.15232E-03  732655.7 4059235.3    61.0     3.40     4.00
3.16     NO                    NO
 L0004296         0   0.15232E-03  732656.1 4059226.7    61.0     3.40     4.00
3.16     NO                    NO
 L0004297         0   0.15232E-03  732656.4 4059218.1    61.0     3.40     4.00
3.16     NO                    NO
 L0004298         0   0.15232E-03  732656.7 4059209.5    61.0     3.40     4.00
3.16     NO                    NO
 L0004299         0   0.15232E-03  732657.1 4059200.9    61.0     3.40     4.00
3.16     NO                    NO
 L0004300         0   0.15232E-03  732657.4 4059192.3    61.0     3.40     4.00
3.16     NO                    NO
 L0004301         0   0.15232E-03  732657.7 4059183.7    61.0     3.40     4.00
3.16     NO                    NO
 L0004302         0   0.15232E-03  732658.0 4059175.1    61.0     3.40     4.00
3.16     NO                    NO
 L0004303         0   0.15232E-03  732658.4 4059166.5    61.0     3.40     4.00
3.16     NO                    NO
 L0004304         0   0.15232E-03  732658.7 4059157.9    61.0     3.40     4.00
3.16     NO                    NO
 L0004305         0   0.15232E-03  732659.0 4059149.3    61.0     3.40     4.00
3.16     NO                    NO
 L0004306         0   0.15232E-03  732659.4 4059140.7    61.0     3.40     4.00
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3.16 NO NO
L0004307 0 0.15232E-03 732659.7 4059132.1 61.0 3.40 4.00
3.16 NO NO
L0004308 0 0.15232E-03 732660.0 4059123.6 61.1 3.40 4.00
3.16 NO NO
L0004309 0 0.15232E-03 732660.4 4059115.0 61.1 3.40 4.00
3.16 NO NO
L0004310 0 0.15232E-03 732660.7 4059106.4 61.1 3.40 4.00
3.16 NO NO
L0004311 0 0.15232E-03 732661.0 4059097.8 61.1 3.40 4.00
3.16 NO NO
L0004312 0 0.15232E-03 732661.4 4059089.2 61.1 3.40 4.00
3.16 NO NO
L0004313 0 0.15232E-03 732661.7 4059080.6 61.1 3.40 4.00
3.16 NO NO
L0004314 0 0.15232E-03 732662.0 4059072.0 61.1 3.40 4.00
3.16 NO NO
L0004315 0 0.15232E-03 732662.3 4059063.4 61.1 3.40 4.00
3.16 NO NO
L0004316 0 0.15232E-03 732662.7 4059054.8 61.1 3.40 4.00
3.16 NO NO
L0004317 0 0.15232E-03 732663.0 4059046.2 61.1 3.40 4.00
3.16 NO NO
L0004318 0 0.15232E-03 732663.3 4059037.6 61.2 3.40 4.00
3.16 NO NO
L0004319 0 0.15232E-03 732663.7 4059029.0 61.2 3.40 4.00
3.16 NO NO
L0004320 0 0.15232E-03 732664.0 4059020.4 61.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0004321	0	0.15232E-03	732664.3	4059011.8	61.2	3.40	4.00			

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3.16     NO                    NO
 L0004322         0   0.15232E-03  732664.7 4059003.2    61.2     3.40     4.00
3.16     NO                    NO
 L0004323         0   0.15232E-03  732665.0 4058994.6    61.2     3.40     4.00
3.16     NO                    NO
 L0004324         0   0.15232E-03  732665.3 4058986.1    61.2     3.40     4.00
3.16     NO                    NO
 L0004325         0   0.15232E-03  732665.6 4058977.5    61.2     3.40     4.00
3.16     NO                    NO
 L0004326         0   0.15232E-03  732666.0 4058968.9    61.2     3.40     4.00
3.16     NO                    NO
 L0004327         0   0.15232E-03  732666.3 4058960.3    61.2     3.40     4.00
3.16     NO                    NO
 L0004328         0   0.15232E-03  732666.6 4058951.7    61.2     3.40     4.00
3.16     NO                    NO
 L0004329         0   0.15232E-03  732667.0 4058943.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004330         0   0.15232E-03  732667.3 4058934.5    61.3     3.40     4.00
3.16     NO                    NO
 L0004331         0   0.15232E-03  732667.6 4058925.9    61.3     3.40     4.00
3.16     NO                    NO
 L0004332         0   0.15232E-03  732668.0 4058917.3    61.3     3.40     4.00
3.16     NO                    NO
 L0004333         0   0.15232E-03  732668.3 4058908.7    61.3     3.40     4.00
3.16     NO                    NO
 L0004334         0   0.15232E-03  732668.6 4058900.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004335         0   0.15232E-03  732669.0 4058891.5    61.3     3.40     4.00
3.16     NO                    NO
 L0004336         0   0.15232E-03  732669.3 4058882.9    61.3     3.40     4.00
3.16     NO                    NO
 L0004337         0   0.15232E-03  732669.6 4058874.3    61.3     3.40     4.00
3.16     NO                    NO
 L0004338         0   0.15232E-03  732669.9 4058865.7    61.3     3.40     4.00
3.16     NO                    NO
 L0004339         0   0.15232E-03  732670.3 4058857.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004340         0   0.15232E-03  732670.6 4058848.6    61.3     3.40     4.00
3.16     NO                    NO
 L0004341         0   0.15232E-03  732670.9 4058840.0    61.4     3.40     4.00
3.16     NO                    NO
 L0004342         0   0.15232E-03  732671.3 4058831.4    61.4     3.40     4.00
3.16     NO                    NO
 L0004343         0   0.15232E-03  732671.6 4058822.8    61.4     3.40     4.00
3.16     NO                    NO
 L0004344         0   0.15232E-03  732671.9 4058814.2    61.4     3.40     4.00
3.16     NO                    NO
 L0004345         0   0.15232E-03  732672.3 4058805.6    61.4     3.40     4.00
3.16     NO                    NO
 L0004346         0   0.15232E-03  732672.6 4058797.0    61.4     3.40     4.00
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3.16     NO                     NO
 L0004347         0   0.15232E-03  732672.9 4058788.4    61.4     3.40     4.00
3.16     NO                     NO
 L0004348         0   0.15232E-03  732673.3 4058779.8    61.4     3.40     4.00
3.16     NO                     NO
 L0004349         0   0.15232E-03  732673.6 4058771.2    61.4     3.40     4.00
3.16     NO                     NO
 L0004350         0   0.15232E-03  732673.9 4058762.6    61.4     3.40     4.00
3.16     NO                     NO
 L0004351         0   0.15232E-03  732674.2 4058754.0    61.4     3.40     4.00
3.16     NO                     NO
 L0004352         0   0.15232E-03  732674.6 4058745.4    61.4     3.40     4.00
3.16     NO                     NO
 L0004353         0   0.15232E-03  732674.9 4058736.8    61.4     3.40     4.00
3.16     NO                     NO
 L0004354         0   0.15232E-03  732675.2 4058728.2    61.4     3.40     4.00
3.16     NO                     NO
 L0004355         0   0.15232E-03  732675.6 4058719.6    61.4     3.40     4.00
3.16     NO                     NO
 L0004356         0   0.15232E-03  732675.9 4058711.1    61.4     3.40     4.00
3.16     NO                     NO
 L0004357         0   0.15232E-03  732676.2 4058702.5    61.4     3.40     4.00
3.16     NO                     NO
 L0004358         0   0.15232E-03  732676.6 4058693.9    61.4     3.40     4.00
3.16     NO                     NO
 L0004359         0   0.15232E-03  732676.9 4058685.3    61.4     3.40     4.00
3.16     NO                     NO
 L0004360         0   0.15232E-03  732677.2 4058676.7    61.4     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0004361         0   0.15232E-03  732677.5 4058668.1    61.4     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0004363         0   0.15232E-03  732678.2 4058650.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004364         0   0.15232E-03  732678.5 4058642.3    61.5     3.40     4.00
3.16     NO                    NO
 L0004365         0   0.15232E-03  732678.9 4058633.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004366         0   0.15232E-03  732679.2 4058625.1    61.5     3.40     4.00
3.16     NO                    NO
 L0004367         0   0.15232E-03  732679.5 4058616.5    61.5     3.40     4.00
3.16     NO                    NO
 L0004368         0   0.15232E-03  732679.9 4058607.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004369         0   0.15232E-03  732680.2 4058599.3    61.5     3.40     4.00
3.16     NO                    NO
 L0004370         0   0.15232E-03  732680.5 4058590.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004371         0   0.15232E-03  732680.9 4058582.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004372         0   0.15232E-03  732681.2 4058573.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004373         0   0.15232E-03  732681.5 4058565.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004374         0   0.15232E-03  732681.8 4058556.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004375         0   0.15232E-03  732682.2 4058547.8    61.5     3.40     4.00
3.16     NO                    NO
 L0004376         0   0.15232E-03  732682.5 4058539.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004377         0   0.15232E-03  732682.8 4058530.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004378         0   0.15232E-03  732683.2 4058522.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004379         0   0.15232E-03  732683.5 4058513.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004380         0   0.15232E-03  732683.8 4058504.8    61.5     3.40     4.00
3.16     NO                    NO
 L0004381         0   0.15232E-03  732684.2 4058496.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004382         0   0.15232E-03  732684.5 4058487.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004383         0   0.15232E-03  732684.8 4058479.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004384         0   0.15232E-03  732685.2 4058470.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004385         0   0.15232E-03  732685.5 4058461.8    61.6     3.40     4.00
3.16     NO                    NO
 L0004386         0   0.15232E-03  732685.8 4058453.2    61.6     3.40     4.00
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3.16     NO                     NO
 L0004387         0   0.15232E-03  732686.1 4058444.7    61.6     3.40     4.00
3.16     NO                     NO
 L0004388         0   0.15232E-03  732686.5 4058436.1    61.6     3.40     4.00
3.16     NO                     NO
 L0004389         0   0.15232E-03  732686.8 4058427.5    61.6     3.40     4.00
3.16     NO                     NO
 L0004390         0   0.15232E-03  732687.1 4058418.9    61.6     3.40     4.00
3.16     NO                     NO
 L0004391         0   0.15232E-03  732687.5 4058410.3    61.6     3.40     4.00
3.16     NO                     NO
 L0004392         0   0.15232E-03  732687.8 4058401.7    61.6     3.40     4.00
3.16     NO                     NO
 L0004393         0   0.15232E-03  732688.1 4058393.1    61.6     3.40     4.00
3.16     NO                     NO
 L0004394         0   0.15232E-03  732688.5 4058384.5    61.6     3.40     4.00
3.16     NO                     NO
 L0004395         0   0.15232E-03  732688.8 4058375.9    61.6     3.40     4.00
3.16     NO                     NO
 L0004396         0   0.15232E-03  732689.1 4058367.3    61.6     3.40     4.00
3.16     NO                     NO
 L0004397         0   0.15232E-03  732689.4 4058358.7    61.6     3.40     4.00
3.16     NO                     NO
 L0004398         0   0.15232E-03  732689.8 4058350.1    61.6     3.40     4.00
3.16     NO                     NO
 L0004399         0   0.15232E-03  732690.1 4058341.5    61.6     3.40     4.00
3.16     NO                     NO
 L0004400         0   0.15232E-03  732690.4 4058332.9    61.6     3.40     4.00
3.16     NO                     NO
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0004401         0   0.15232E-03  732690.8 4058324.3    61.6     3.40     4.00
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3.16     NO                    NO
 L0004402         0   0.15232E-03  732691.1 4058315.7    61.6     3.40     4.00
3.16     NO                    NO
 L0004403         0   0.15232E-03  732691.4 4058307.2    61.6     3.40     4.00
3.16     NO                    NO
 L0004404         0   0.15232E-03  732691.8 4058298.6    61.6     3.40     4.00
3.16     NO                    NO
 L0004405         0   0.15232E-03  732692.1 4058290.0    61.6     3.40     4.00
3.16     NO                    NO
 L0004406         0   0.15232E-03  732692.4 4058281.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004407         0   0.15232E-03  732692.8 4058272.8    61.6     3.40     4.00
3.16     NO                    NO
 L0004408         0   0.15232E-03  732693.1 4058264.2    61.6     3.40     4.00
3.16     NO                    NO
 L0004409         0   0.15232E-03  732693.4 4058255.6    61.6     3.40     4.00
3.16     NO                    NO
 L0004410         0   0.15232E-03  732693.7 4058247.0    61.6     3.40     4.00
3.16     NO                    NO
 L0004411         0   0.15232E-03  732694.1 4058238.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004412         0   0.15232E-03  732694.4 4058229.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004413         0   0.15232E-03  732694.7 4058221.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004414         0   0.15232E-03  732695.1 4058212.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004415         0   0.15232E-03  732695.4 4058204.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004416         0   0.15232E-03  732695.7 4058195.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004417         0   0.15232E-03  732696.1 4058186.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004418         0   0.15232E-03  732696.4 4058178.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004419         0   0.15232E-03  732696.7 4058169.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004420         0   0.15232E-03  732697.0 4058161.1    61.7     3.40     4.00
3.16     NO                    NO
 L0004421         0   0.15232E-03  732697.4 4058152.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004422         0   0.15232E-03  732697.7 4058143.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004423         0   0.15232E-03  732698.0 4058135.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004424         0   0.15232E-03  732698.4 4058126.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004425         0   0.15232E-03  732698.7 4058118.1    61.7     3.40     4.00
3.16     NO                    NO
 L0004426         0   0.15232E-03  732699.0 4058109.5    61.7     3.40     4.00
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3.16 NO NO
L0004427 0 0.15232E-03 732699.4 4058100.9 61.7 3.40 4.00
3.16 NO NO
L0004428 0 0.15232E-03 732699.7 4058092.3 61.7 3.40 4.00
3.16 NO NO
L0004429 0 0.15232E-03 732700.0 4058083.7 61.7 3.40 4.00
3.16 NO NO
L0004430 0 0.15232E-03 732700.4 4058075.1 61.7 3.40 4.00
3.16 NO NO
L0004431 0 0.15232E-03 732700.7 4058066.5 61.8 3.40 4.00
3.16 NO NO
L0004432 0 0.15232E-03 732701.0 4058057.9 61.8 3.40 4.00
3.16 NO NO
L0004433 0 0.15232E-03 732701.3 4058049.3 61.8 3.40 4.00
3.16 NO NO
L0004434 0 0.15232E-03 732701.7 4058040.8 61.8 3.40 4.00
3.16 NO NO
L0004435 0 0.15232E-03 732702.0 4058032.2 61.8 3.40 4.00
3.16 NO NO
L0004436 0 0.15232E-03 732702.3 4058023.6 61.8 3.40 4.00
3.16 NO NO
L0004437 0 0.15232E-03 732702.7 4058015.0 61.8 3.40 4.00
3.16 NO NO
L0004438 0 0.15232E-03 732859.1 4056704.1 61.7 3.40 4.00
3.16 NO NO
L0004439 0 0.15232E-03 732859.5 4056695.5 61.7 3.40 4.00
3.16 NO NO
L0004440 0 0.15232E-03 732859.8 4056686.9 61.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0004441	0	0.15232E-03	732860.2	4056678.3	61.7	3.40	4.00			

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3.16     NO                    NO
 L0004442         0   0.15232E-03  732860.6 4056669.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004443         0   0.15232E-03  732861.0 4056661.1    61.7     3.40     4.00
3.16     NO                    NO
 L0004444         0   0.15232E-03  732861.3 4056652.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004445         0   0.15232E-03  732861.7 4056643.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004446         0   0.15232E-03  732862.1 4056635.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004447         0   0.15232E-03  732862.5 4056626.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004448         0   0.15232E-03  732862.8 4056618.1    61.7     3.40     4.00
3.16     NO                    NO
 L0004449         0   0.15232E-03  732863.2 4056609.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004450         0   0.15232E-03  732863.6 4056601.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004451         0   0.15232E-03  732863.9 4056592.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004452         0   0.15232E-03  732864.3 4056583.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004453         0   0.15232E-03  732864.7 4056575.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004454         0   0.15232E-03  732865.1 4056566.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004455         0   0.15232E-03  732865.4 4056558.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004456         0   0.15232E-03  732865.8 4056549.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004457         0   0.15232E-03  732866.2 4056540.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004458         0   0.15232E-03  732866.6 4056532.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004459         0   0.15232E-03  732866.9 4056523.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004460         0   0.15232E-03  732867.3 4056515.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004461         0   0.15232E-03  732867.7 4056506.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004462         0   0.15232E-03  732868.1 4056497.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004463         0   0.15232E-03  732868.4 4056489.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004464         0   0.15232E-03  732868.8 4056480.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004465         0   0.15232E-03  732869.2 4056472.1    61.6     3.40     4.00
3.16     NO                    NO
 L0004466         0   0.15232E-03  732869.6 4056463.5    61.6     3.40     4.00
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3.16 NO NO
L0004467 0 0.15232E-03 732869.9 4056454.9 61.6 3.40 4.00
3.16 NO NO
L0004468 0 0.15232E-03 732870.3 4056446.3 61.6 3.40 4.00
3.16 NO NO
L0004469 0 0.15232E-03 732870.7 4056437.7 61.6 3.40 4.00
3.16 NO NO
L0004470 0 0.15232E-03 732871.0 4056429.1 61.6 3.40 4.00
3.16 NO NO
L0004471 0 0.15232E-03 732871.4 4056420.5 61.6 3.40 4.00
3.16 NO NO
L0004472 0 0.15232E-03 732871.8 4056411.9 61.6 3.40 4.00
3.16 NO NO
L0004473 0 0.15232E-03 732872.2 4056403.3 61.6 3.40 4.00
3.16 NO NO
L0004474 0 0.15232E-03 732872.5 4056394.8 61.6 3.40 4.00
3.16 NO NO
L0004475 0 0.15232E-03 732872.9 4056386.2 61.6 3.40 4.00
3.16 NO NO
L0004476 0 0.15232E-03 732873.3 4056377.6 61.6 3.40 4.00
3.16 NO NO
L0004477 0 0.15232E-03 732873.7 4056369.0 61.6 3.40 4.00
3.16 NO NO
L0004478 0 0.15232E-03 732874.0 4056360.4 61.6 3.40 4.00
3.16 NO NO
L0004479 0 0.15232E-03 732874.4 4056351.8 61.6 3.40 4.00
3.16 NO NO
L0004480 0 0.15232E-03 732874.8 4056343.2 61.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0004481	0	0.15232E-03	732875.2	4056334.6	61.6	3.40	4.00				

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3.16     NO                    NO
 L0004482         0   0.15232E-03  732875.5 4056326.0    61.6     3.40     4.00
3.16     NO                    NO
 L0004483         0   0.15232E-03  732875.9 4056317.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004484         0   0.15232E-03  732875.3 4056309.7    61.6     3.40     4.00
3.16     NO                    NO
 L0004485         0   0.15232E-03  732866.7 4056309.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004486         0   0.15232E-03  732858.1 4056308.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004487         0   0.15232E-03  732849.5 4056308.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004488         0   0.15232E-03  732841.0 4056307.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004489         0   0.15232E-03  732832.4 4056307.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004490         0   0.15232E-03  732823.8 4056306.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004491         0   0.15232E-03  732815.2 4056306.4    61.8     3.40     4.00
3.16     NO                    NO
 L0004492         0   0.15232E-03  732806.6 4056306.0    61.8     3.40     4.00
3.16     NO                    NO
 L0004493         0   0.15232E-03  732798.0 4056305.5    61.8     3.40     4.00
3.16     NO                    NO
 L0004494         0   0.15232E-03  732789.4 4056305.0    61.8     3.40     4.00
3.16     NO                    NO
 L0004495         0   0.15232E-03  732780.8 4056304.6    61.8     3.40     4.00
3.16     NO                    NO
 L0004496         0   0.15232E-03  732772.3 4056304.1    61.9     3.40     4.00
3.16     NO                    NO
 L0004497         0   0.15232E-03  732763.7 4056303.6    61.9     3.40     4.00
3.16     NO                    NO
 L0004498         0   0.15232E-03  732755.1 4056303.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004499         0   0.15232E-03  732746.5 4056302.7    61.9     3.40     4.00
3.16     NO                    NO
 L0004500         0   0.15232E-03  732737.9 4056302.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004501         0   0.15232E-03  732729.3 4056301.8    61.9     3.40     4.00
3.16     NO                    NO
 L0004502         0   0.15232E-03  732720.7 4056301.3    62.0     3.40     4.00
3.16     NO                    NO
 L0004503         0   0.15232E-03  732712.1 4056300.8    62.0     3.40     4.00
3.16     NO                    NO
 L0004504         0   0.15232E-03  732703.6 4056300.4    62.0     3.40     4.00
3.16     NO                    NO
 L0004505         0   0.15232E-03  732695.0 4056299.9    62.0     3.40     4.00
3.16     NO                    NO
 L0004506         0   0.15232E-03  732686.4 4056299.4    62.1     3.40     4.00
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3.16     NO                     NO
 L0004507         0   0.15232E-03  732677.8 4056299.0    62.1     3.40     4.00
3.16     NO                     NO
 L0004508         0   0.15232E-03  732669.2 4056298.5    62.1     3.40     4.00
3.16     NO                     NO
 L0004509         0   0.15232E-03  732660.6 4056298.0    62.1     3.40     4.00
3.16     NO                     NO
 L0004510         0   0.15232E-03  732652.0 4056297.6    62.1     3.40     4.00
3.16     NO                     NO
 L0004511         0   0.15232E-03  732643.4 4056297.1    62.2     3.40     4.00
3.16     NO                     NO
 L0004512         0   0.15232E-03  732634.9 4056296.6    62.2     3.40     4.00
3.16     NO                     NO
 L0004513         0   0.15232E-03  732626.3 4056296.2    62.2     3.40     4.00
3.16     NO                     NO
 L0004514         0   0.15232E-03  732617.7 4056295.7    62.2     3.40     4.00
3.16     NO                     NO
 L0004515         0   0.15232E-03  732609.1 4056295.2    62.2     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0004517         0   0.15232E-03  732591.9 4056294.3    62.3     3.40     4.00
3.16     NO                     NO
 L0004518         0   0.15232E-03  732583.3 4056293.8    62.3     3.40     4.00
3.16     NO                     NO
 L0004519         0   0.15232E-03  732574.8 4056293.4    62.3     3.40     4.00
3.16     NO                     NO
 L0004520         0   0.15232E-03  732566.2 4056292.9    62.4     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0004521         0   0.15232E-03  732557.6 4056292.4    62.4     3.40     4.00
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3.16     NO                    NO
 L0004522         0   0.15232E-03  732549.0 4056292.0    62.4     3.40     4.00
3.16     NO                    NO
 L0004523         0   0.15232E-03  732540.4 4056291.5    62.4     3.40     4.00
3.16     NO                    NO
 L0004524         0   0.15232E-03  732531.8 4056291.0    62.4     3.40     4.00
3.16     NO                    NO
 L0004525         0   0.15232E-03  732523.2 4056290.6    62.4     3.40     4.00
3.16     NO                    NO
 L0004526         0   0.15232E-03  732514.6 4056290.1    62.5     3.40     4.00
3.16     NO                    NO
 L0004527         0   0.15232E-03  732506.1 4056289.6    62.5     3.40     4.00
3.16     NO                    NO
 L0004528         0   0.15232E-03  732497.5 4056289.2    62.5     3.40     4.00
3.16     NO                    NO
 L0004529         0   0.15232E-03  732488.9 4056288.7    62.5     3.40     4.00
3.16     NO                    NO
 L0004530         0   0.15232E-03  732480.3 4056288.2    62.5     3.40     4.00
3.16     NO                    NO
 L0004531         0   0.15232E-03  732471.7 4056287.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004532         0   0.15232E-03  732463.1 4056287.3    62.6     3.40     4.00
3.16     NO                    NO
 L0004533         0   0.15232E-03  732454.5 4056286.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004534         0   0.15232E-03  732445.9 4056286.4    62.6     3.40     4.00
3.16     NO                    NO
 L0004535         0   0.15232E-03  732437.4 4056285.9    62.7     3.40     4.00
3.16     NO                    NO
 L0004536         0   0.15232E-03  732428.8 4056285.4    62.7     3.40     4.00
3.16     NO                    NO
 L0004537         0   0.15232E-03  732420.2 4056285.0    62.7     3.40     4.00
3.16     NO                    NO
 L0004538         0   0.15232E-03  732411.6 4056284.5    62.7     3.40     4.00
3.16     NO                    NO
 L0004539         0   0.15232E-03  732403.0 4056284.0    62.7     3.40     4.00
3.16     NO                    NO
 L0004540         0   0.15232E-03  732394.4 4056283.6    62.8     3.40     4.00
3.16     NO                    NO
 L0004541         0   0.15232E-03  732385.8 4056283.1    62.8     3.40     4.00
3.16     NO                    NO
 L0004542         0   0.15232E-03  732377.2 4056282.6    62.8     3.40     4.00
3.16     NO                    NO
 L0004543         0   0.15232E-03  732368.7 4056282.2    62.8     3.40     4.00
3.16     NO                    NO
 L0004544         0   0.15232E-03  732360.1 4056281.7    62.8     3.40     4.00
3.16     NO                    NO
 L0004545         0   0.15232E-03  732351.5 4056281.2    62.8     3.40     4.00
3.16     NO                    NO
 L0004546         0   0.15232E-03  732342.9 4056280.8    62.9     3.40     4.00
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3.16     NO                     NO
 L0004547         0   0.15232E-03  732334.3 4056280.3    62.9     3.40     4.00
3.16     NO                     NO
 L0004548         0   0.15232E-03  732325.7 4056279.8    62.9     3.40     4.00
3.16     NO                     NO
 L0004549         0   0.15232E-03  732317.1 4056279.4    62.9     3.40     4.00
3.16     NO                     NO
 L0004550         0   0.15232E-03  732308.5 4056278.9    63.0     3.40     4.00
3.16     NO                     NO
 L0004551         0   0.15232E-03  732300.0 4056278.4    63.0     3.40     4.00
3.16     NO                     NO
 L0004552         0   0.15232E-03  732291.4 4056278.0    63.0     3.40     4.00
3.16     NO                     NO
 L0004553         0   0.15232E-03  732282.8 4056277.5    63.0     3.40     4.00
3.16     NO                     NO
 L0004554         0   0.15232E-03  732274.2 4056277.0    63.0     3.40     4.00
3.16     NO                     NO
 L0004555         0   0.15232E-03  732265.6 4056276.6    63.0     3.40     4.00
3.16     NO                     NO
 L0004556         0   0.15232E-03  732257.0 4056276.1    63.1     3.40     4.00
3.16     NO                     NO
 L0004557         0   0.15232E-03  732248.4 4056275.6    63.1     3.40     4.00
3.16     NO                     NO
 L0004558         0   0.15232E-03  732239.8 4056275.2    63.1     3.40     4.00
3.16     NO                     NO
 L0004559         0   0.15232E-03  732231.3 4056274.7    63.1     3.40     4.00
3.16     NO                     NO
 L0004560         0   0.15232E-03  732222.7 4056274.2    63.1     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

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               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0004561         0   0.15232E-03  732214.1 4056273.8    63.2     3.40     4.00
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3.16     NO                    NO
 L0004562         0   0.15232E-03  732205.5 4056273.3    63.2     3.40     4.00
3.16     NO                    NO
 L0004563         0   0.15232E-03  732196.9 4056272.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004564         0   0.15232E-03  732188.3 4056272.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004565         0   0.15232E-03  732179.7 4056271.9    63.2     3.40     4.00
3.16     NO                    NO
 L0004566         0   0.15232E-03  732171.1 4056271.4    63.3     3.40     4.00
3.16     NO                    NO
 L0004567         0   0.15232E-03  732162.6 4056271.0    63.3     3.40     4.00
3.16     NO                    NO
 L0004568         0   0.15232E-03  732154.0 4056270.5    63.3     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004570         0   0.15232E-03  732136.8 4056269.6    63.3     3.40     4.00
3.16     NO                    NO
 L0004571         0   0.15232E-03  732128.2 4056269.1    63.3     3.40     4.00
3.16     NO                    NO
 L0004572         0   0.15232E-03  732119.6 4056268.6    63.4     3.40     4.00
3.16     NO                    NO
 L0004573         0   0.15232E-03  732111.0 4056268.2    63.4     3.40     4.00
3.16     NO                    NO
 L0004574         0   0.15232E-03  732102.4 4056267.7    63.4     3.40     4.00
3.16     NO                    NO
 L0004575         0   0.15232E-03  732093.9 4056267.2    63.4     3.40     4.00
3.16     NO                    NO
 L0004576         0   0.15232E-03  732085.3 4056266.8    63.4     3.40     4.00
3.16     NO                    NO
 L0004577         0   0.15232E-03  732079.1 4056264.1    63.4     3.40     4.00
3.16     NO                    NO
 L0004578         0   0.15232E-03  732079.3 4056255.5    63.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004580         0   0.15232E-03  732079.8 4056238.3    63.4     3.40     4.00
3.16     NO                    NO
 L0004581         0   0.15232E-03  732080.0 4056229.7    63.4     3.40     4.00
3.16     NO                    NO
 L0004582         0   0.15232E-03  732080.2 4056221.1    63.4     3.40     4.00
3.16     NO                    NO
 L0004583         0   0.15232E-03  732080.5 4056212.5    63.4     3.40     4.00
3.16     NO                    NO
 L0004584         0   0.15232E-03  732080.7 4056203.9    63.4     3.40     4.00
3.16     NO                    NO
 L0004585         0   0.15232E-03  732080.9 4056195.3    63.4     3.40     4.00
3.16     NO                    NO
 L0004586         0   0.15232E-03  732081.2 4056186.7    63.4     3.40     4.00
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3.16     NO                     NO
 L0004587         0   0.15232E-03  732081.4 4056178.1    63.3     3.40     4.00
3.16     NO                     NO
 L0004588         0   0.15232E-03  732081.6 4056169.5    63.3     3.40     4.00
3.16     NO                     NO
 L0004589         0   0.15232E-03  732081.8 4056160.9    63.3     3.40     4.00
3.16     NO                     NO
 L0004590         0   0.15232E-03  732082.1 4056152.3    63.3     3.40     4.00
3.16     NO                     NO
 L0004591         0   0.15232E-03  732082.3 4056143.7    63.3     3.40     4.00
3.16     NO                     NO
 L0004592         0   0.15232E-03  732082.5 4056135.1    63.3     3.40     4.00
3.16     NO                     NO
 L0004593         0   0.15232E-03  732082.8 4056126.5    63.3     3.40     4.00
3.16     NO                     NO
 L0004594         0   0.15232E-03  732083.0 4056117.9    63.3     3.40     4.00
3.16     NO                     NO
 L0004595         0   0.15232E-03  732083.2 4056109.3    63.3     3.40     4.00
3.16     NO                     NO
 L0004596         0   0.15232E-03  732083.4 4056100.7    63.3     3.40     4.00
3.16     NO                     NO
 L0004597         0   0.15232E-03  732083.7 4056092.1    63.3     3.40     4.00
3.16     NO                     NO
 L0004598         0   0.15232E-03  732083.9 4056083.5    63.3     3.40     4.00
3.16     NO                     NO
 L0004599         0   0.15232E-03  732084.1 4056074.9    63.3     3.40     4.00
3.16     NO                     NO
 L0004600         0   0.15232E-03  732084.4 4056066.3    63.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0004601         0   0.15232E-03  732084.6 4056057.7    63.2     3.40     4.00
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3.16     NO                    NO
 L0004602         0   0.15232E-03  732084.8 4056049.1    63.2     3.40     4.00
3.16     NO                    NO
 L0004603         0   0.15232E-03  732085.0 4056040.6    63.2     3.40     4.00
3.16     NO                    NO
 L0004604         0   0.15232E-03  732085.3 4056032.0    63.2     3.40     4.00
3.16     NO                    NO
 L0004605         0   0.15232E-03  732085.5 4056023.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004606         0   0.15232E-03  732085.7 4056014.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004607         0   0.15232E-03  732086.0 4056006.2    63.2     3.40     4.00
3.16     NO                    NO
 L0004608         0   0.15232E-03  732086.2 4055997.6    63.2     3.40     4.00
3.16     NO                    NO
 L0004609         0   0.15232E-03  732086.4 4055989.0    63.2     3.40     4.00
3.16     NO                    NO
 L0004610         0   0.15232E-03  732086.6 4055980.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004611         0   0.15232E-03  732086.9 4055971.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004612         0   0.15232E-03  732087.1 4055963.2    63.2     3.40     4.00
3.16     NO                    NO
 L0004613         0   0.15232E-03  732087.3 4055954.6    63.2     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004615         0   0.15232E-03  732087.8 4055937.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004616         0   0.15232E-03  732088.0 4055928.8    63.1     3.40     4.00
3.16     NO                    NO
 L0004617         0   0.15232E-03  732088.2 4055920.2    63.1     3.40     4.00
3.16     NO                    NO
 L0004618         0   0.15232E-03  732088.5 4055911.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004619         0   0.15232E-03  732088.7 4055903.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004620         0   0.15232E-03  732088.9 4055894.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004621         0   0.15232E-03  732089.1 4055885.8    63.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004623         0   0.15232E-03  732089.6 4055868.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004624         0   0.15232E-03  732089.8 4055860.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004625         0   0.15232E-03  732090.1 4055851.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004626         0   0.15232E-03  732090.3 4055842.8    63.1     3.40     4.00
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0004630   0   0.15232E-03 732091.2 4055808.4   63.0   3.40   4.00
3.16   NO   NO
 L0004631   0   0.15232E-03 732091.4 4055799.8   63.0   3.40   4.00
3.16   NO   NO
 L0004632   0   0.15232E-03 732091.7 4055791.2   63.0   3.40   4.00
3.16   NO   NO
 L0004633   0   0.15232E-03 732091.9 4055782.6   63.0   3.40   4.00
3.16   NO   NO
 L0004634   0   0.15232E-03 732092.1 4055774.0   63.0   3.40   4.00
3.16   NO   NO
 L0004635   0   0.15232E-03 732092.3 4055765.4   63.0   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0004638   0   0.15232E-03 732093.0 4055739.7   63.0   3.40   4.00
3.16   NO   NO
 L0004639   0   0.15232E-03 732093.3 4055731.1   63.0   3.40   4.00
3.16   NO   NO
 L0004640   0   0.15232E-03 732093.5 4055722.5   62.9   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0004641   0   0.15232E-03 732093.7 4055713.9   62.9   3.40   4.00

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3.16     NO                    NO
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3.16     NO                    NO
 L0004643         0   0.15232E-03  732094.2 4055696.7    62.9     3.40     4.00
3.16     NO                    NO
 L0004644         0   0.15232E-03  732094.4 4055688.1    62.9     3.40     4.00
3.16     NO                    NO
 L0004645         0   0.15232E-03  732094.6 4055679.5    62.9     3.40     4.00
3.16     NO                    NO
 L0004646         0   0.15232E-03  732094.9 4055670.9    62.9     3.40     4.00
3.16     NO                    NO
 L0004647         0   0.15232E-03  732095.1 4055662.3    62.9     3.40     4.00
3.16     NO                    NO
 L0004648         0   0.15232E-03  732095.3 4055653.7    62.9     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0004652         0   0.15232E-03  732096.2 4055619.3    62.9     3.40     4.00
3.16     NO                    NO
 L0004653         0   0.15232E-03  732096.5 4055610.7    62.9     3.40     4.00
3.16     NO                    NO
 L0004654         0   0.15232E-03  732096.7 4055602.1    62.9     3.40     4.00
3.16     NO                    NO
 L0004655         0   0.15232E-03  732096.9 4055593.5    62.9     3.40     4.00
3.16     NO                    NO
 L0004656         0   0.15232E-03  732097.1 4055584.9    62.9     3.40     4.00
3.16     NO                    NO
 L0004657         0   0.15232E-03  732097.4 4055576.3    62.8     3.40     4.00
3.16     NO                    NO
 L0004658         0   0.15232E-03  732097.6 4055567.7    62.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004660         0   0.15232E-03  732098.1 4055550.5    62.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004662         0   0.15232E-03  732098.5 4055533.3    62.8     3.40     4.00
3.16     NO                    NO
 L0004663         0   0.15232E-03  732098.7 4055524.7    62.8     3.40     4.00
3.16     NO                    NO
 L0004664         0   0.15232E-03  732099.0 4055516.1    62.8     3.40     4.00
3.16     NO                    NO
 L0004665         0   0.15232E-03  732099.2 4055507.5    62.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0004670         0   0.15232E-03  732100.3 4055464.6    62.8     3.40     4.00
3.16     NO                     NO
 L0004671         0   0.15232E-03  732100.6 4055456.0    62.8     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0004673         0   0.15232E-03  732101.0 4055438.8    62.8     3.40     4.00
3.16     NO                     NO
 L0004674         0   0.15232E-03  732101.2 4055430.2    62.8     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0004676         0   0.15232E-03  732101.7 4055413.0    62.7     3.40     4.00
3.16     NO                     NO
 L0004677         0   0.15232E-03  732101.9 4055404.4    62.7     3.40     4.00
3.16     NO                     NO
 L0004678         0   0.15232E-03  732102.2 4055395.8    62.7     3.40     4.00
3.16     NO                     NO
 L0004679         0   0.15232E-03  732102.4 4055387.2    62.7     3.40     4.00
3.16     NO                     NO
 L0004680         0   0.15232E-03  732102.6 4055378.6    62.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0004681         0   0.15232E-03  732102.8 4055370.0    62.7     3.40     4.00
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3.16     NO                    NO
 L0004682         0   0.15232E-03  732103.1 4055361.4    62.7     3.40     4.00
3.16     NO                    NO
 L0004683         0   0.15232E-03  732103.3 4055352.8    62.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004685         0   0.15232E-03  732103.8 4055335.6    62.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004687         0   0.15232E-03  732104.2 4055318.4    62.7     3.40     4.00
3.16     NO                    NO
 L0004688         0   0.15232E-03  732104.4 4055309.8    62.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0004691         0   0.15232E-03  732108.3 4055287.3    62.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0004694         0   0.15232E-03  732134.1 4055287.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004695         0   0.15232E-03  732142.7 4055288.0    62.6     3.40     4.00
3.16     NO                    NO
 L0004696         0   0.15232E-03  732151.3 4055288.2    62.6     3.40     4.00
3.16     NO                    NO
 L0004697         0   0.15232E-03  732159.9 4055288.3    62.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0004702         0   0.15232E-03  732202.9 4055289.2    62.5     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0004711   0   0.15232E-03 732280.3 4055290.7   62.3   3.40   4.00
3.16   NO   NO
 L0004712   0   0.15232E-03 732288.9 4055290.9   62.3   3.40   4.00
3.16   NO   NO
 L0004713   0   0.15232E-03 732297.5 4055291.0   62.3   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0004715   0   0.15232E-03 732314.7 4055291.4   62.3   3.40   4.00
3.16   NO   NO
 L0004716   0   0.15232E-03 732323.3 4055291.5   62.3   3.40   4.00
3.16   NO   NO
 L0004717   0   0.15232E-03 732331.9 4055291.7   62.3   3.40   4.00
3.16   NO   NO
 L0004718   0   0.15232E-03 732340.5 4055291.9   62.2   3.40   4.00
3.16   NO   NO
 L0004719   0   0.15232E-03 732349.1 4055292.0   62.2   3.40   4.00
3.16   NO   NO
 L0004720   0   0.15232E-03 732357.7 4055292.2   62.2   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0004721   0   0.15232E-03 732366.2 4055292.4   62.2   3.40   4.00

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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0004729         0   0.15232E-03  732435.0 4055293.7    62.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0004739         0   0.15232E-03  732521.0 4055295.4    61.9     3.40     4.00
3.16     NO                    NO
 L0004740         0   0.15232E-03  732529.6 4055295.5    61.9     3.40     4.00
3.16     NO                    NO
 L0004741         0   0.15232E-03  732538.2 4055295.7    61.8     3.40     4.00
3.16     NO                    NO
 L0004742         0   0.15232E-03  732546.8 4055295.9    61.8     3.40     4.00
3.16     NO                    NO
 L0004743         0   0.15232E-03  732555.4 4055296.1    61.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004745         0   0.15232E-03  732572.6 4055296.4    61.8     3.40     4.00
3.16     NO                    NO
 L0004746         0   0.15232E-03  732581.2 4055296.6    61.8     3.40     4.00
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
L0004753 0 0.15232E-03 732641.4 4055297.7 61.7 3.40 4.00
3.16 NO NO
L0004754 0 0.15232E-03 732650.0 4055297.9 61.7 3.40 4.00
3.16 NO NO
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3.16 NO NO
L0004756 0 0.15232E-03 732667.2 4055298.2 61.6 3.40 4.00
3.16 NO NO
L0004757 0 0.15232E-03 732675.8 4055298.4 61.6 3.40 4.00
3.16 NO NO
L0004758 0 0.15232E-03 732684.4 4055298.6 61.6 3.40 4.00
3.16 NO NO
L0004759 0 0.15232E-03 732693.0 4055298.7 61.6 3.40 4.00
3.16 NO NO
L0004760 0 0.15232E-03 732701.6 4055298.9 61.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0004761	0	0.15232E-03	732710.2	4055299.1	61.6	3.40	4.00			

```
3.16     NO                    NO
 L0004762         0   0.15232E-03  732718.8 4055299.2    61.6     3.40     4.00
3.16     NO                    NO
 L0004763         0   0.15232E-03  732727.4 4055299.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004764         0   0.15232E-03  732736.0 4055299.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004765         0   0.15232E-03  732744.6 4055299.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004766         0   0.15232E-03  732753.2 4055299.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004767         0   0.15232E-03  732761.8 4055300.1    61.5     3.40     4.00
3.16     NO                    NO
 L0004768         0   0.15232E-03  732770.4 4055300.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004769         0   0.15232E-03  732779.0 4055300.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004770         0   0.15232E-03  732787.6 4055300.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004771         0   0.15232E-03  732796.2 4055300.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004772         0   0.15232E-03  732804.8 4055300.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004773         0   0.15232E-03  732813.4 4055301.1    61.4     3.40     4.00
3.16     NO                    NO
 L0004774         0   0.15232E-03  732822.0 4055301.2    61.4     3.40     4.00
3.16     NO                    NO
 L0004775         0   0.15232E-03  732830.6 4055301.4    61.4     3.40     4.00
3.16     NO                    NO
 L0004776         0   0.15232E-03  732839.2 4055301.6    61.4     3.40     4.00
3.16     NO                    NO
 L0004777         0   0.15232E-03  732847.8 4055301.7    61.4     3.40     4.00
3.16     NO                    NO
 L0004778         0   0.15232E-03  732856.4 4055301.9    61.4     3.40     4.00
3.16     NO                    NO
 L0004779         0   0.15232E-03  732865.0 4055302.1    61.4     3.40     4.00
3.16     NO                    NO
 L0004780         0   0.15232E-03  732873.6 4055302.2    61.4     3.40     4.00
3.16     NO                    NO
 L0004781         0   0.15232E-03  732882.2 4055302.4    61.3     3.40     4.00
3.16     NO                    NO
 L0004782         0   0.15232E-03  732890.8 4055302.6    61.3     3.40     4.00
3.16     NO                    NO
 L0004783         0   0.15232E-03  732899.3 4055302.8    61.3     3.40     4.00
3.16     NO                    NO
 L0004784         0   0.15232E-03  732907.9 4055302.9    61.3     3.40     4.00
3.16     NO                    NO
 L0004785         0   0.15232E-03  732916.5 4055303.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004786         0   0.15232E-03  732925.1 4055303.3    61.3     3.40     4.00
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3.16     NO                     NO
 L0004787         0   0.15232E-03  732933.7 4055303.4    61.3     3.40     4.00
3.16     NO                     NO
 L0004788         0   0.15232E-03  732942.3 4055303.6    61.3     3.40     4.00
3.16     NO                     NO
 L0004789         0   0.15232E-03  732950.9 4055303.8    61.2     3.40     4.00
3.16     NO                     NO
 L0004790         0   0.15232E-03  732959.5 4055303.9    61.2     3.40     4.00
3.16     NO                     NO
 L0004791         0   0.15232E-03  732968.1 4055304.1    61.2     3.40     4.00
3.16     NO                     NO
 L0004792         0   0.15232E-03  732976.7 4055304.3    61.2     3.40     4.00
3.16     NO                     NO
 L0004793         0   0.15232E-03  732985.3 4055304.4    61.2     3.40     4.00
3.16     NO                     NO
 L0004794         0   0.15232E-03  732993.9 4055304.6    61.2     3.40     4.00
3.16     NO                     NO
 L0004795         0   0.15232E-03  733002.5 4055304.8    61.2     3.40     4.00
3.16     NO                     NO
 L0004796         0   0.15232E-03  733011.1 4055304.9    61.1     3.40     4.00
3.16     NO                     NO
 L0004797         0   0.15232E-03  733019.7 4055305.1    61.1     3.40     4.00
3.16     NO                     NO
 L0004798         0   0.15232E-03  733028.3 4055305.3    61.1     3.40     4.00
3.16     NO                     NO
 L0004799         0   0.15232E-03  733036.9 4055305.4    61.1     3.40     4.00
3.16     NO                     NO
 L0004800         0   0.15232E-03  733045.5 4055305.6    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0004801         0   0.15232E-03  733054.1 4055305.8    61.1     3.40     4.00
```

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3.16     NO                    NO
 L0004802         0   0.15232E-03  733062.7 4055305.9    61.1     3.40     4.00
3.16     NO                    NO
 L0004803         0   0.15232E-03  733071.3 4055306.1    61.1     3.40     4.00
3.16     NO                    NO
 L0004804         0   0.15232E-03  733079.9 4055306.3    61.0     3.40     4.00
3.16     NO                    NO
 L0004805         0   0.15232E-03  733088.5 4055306.4    61.0     3.40     4.00
3.16     NO                    NO
 L0004806         0   0.15232E-03  733097.1 4055306.6    61.0     3.40     4.00
3.16     NO                    NO
 L0004807         0   0.15232E-03  733105.7 4055306.8    61.0     3.40     4.00
3.16     NO                    NO
 L0004808         0   0.15232E-03  733114.3 4055306.9    61.0     3.40     4.00
3.16     NO                    NO
 L0004809         0   0.15232E-03  733122.9 4055307.1    61.0     3.40     4.00
3.16     NO                    NO
 L0004810         0   0.15232E-03  733131.5 4055307.3    60.9     3.40     4.00
3.16     NO                    NO
 L0004811         0   0.15232E-03  733140.1 4055307.4    60.9     3.40     4.00
3.16     NO                    NO
 L0004812         0   0.15232E-03  733148.7 4055307.6    60.9     3.40     4.00
3.16     NO                    NO
 L0004813         0   0.15232E-03  733157.3 4055307.8    60.9     3.40     4.00
3.16     NO                    NO
 L0004814         0   0.15232E-03  733165.9 4055307.9    60.9     3.40     4.00
3.16     NO                    NO
 L0004815         0   0.15232E-03  733174.5 4055308.1    60.9     3.40     4.00
3.16     NO                    NO
 L0004816         0   0.15232E-03  733183.1 4055308.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004817         0   0.15232E-03  733191.7 4055308.4    60.8     3.40     4.00
3.16     NO                    NO
 L0004818         0   0.15232E-03  733200.3 4055308.6    60.8     3.40     4.00
3.16     NO                    NO
 L0004819         0   0.15232E-03  733208.9 4055308.8    60.8     3.40     4.00
3.16     NO                    NO
 L0004820         0   0.15232E-03  733217.5 4055308.9    60.8     3.40     4.00
3.16     NO                    NO
 L0004821         0   0.15232E-03  733226.1 4055309.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004822         0   0.15232E-03  733234.7 4055309.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004823         0   0.15232E-03  733243.3 4055309.5    60.8     3.40     4.00
3.16     NO                    NO
 L0004824         0   0.15232E-03  733251.9 4055309.6    60.8     3.40     4.00
3.16     NO                    NO
 L0004825         0   0.15232E-03  733260.5 4055309.8    60.7     3.40     4.00
3.16     NO                    NO
 L0004826         0   0.15232E-03  733269.1 4055310.0    60.7     3.40     4.00
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3.16   NO   NO
 L0004827   0   0.15232E-03 733277.7 4055310.1   60.7   3.40   4.00
3.16   NO   NO
 L0004828   0   0.15232E-03 733286.3 4055310.3   60.7   3.40   4.00
3.16   NO   NO
 L0004829   0   0.15232E-03 733294.9 4055310.5   60.7   3.40   4.00
3.16   NO   NO
 L0004830   0   0.15232E-03 733303.5 4055310.6   60.6   3.40   4.00
3.16   NO   NO
 L0004831   0   0.15232E-03 733312.1 4055310.8   60.6   3.40   4.00
3.16   NO   NO
 L0004832   0   0.15232E-03 733320.7 4055311.0   60.6   3.40   4.00
3.16   NO   NO
 L0004833   0   0.15232E-03 733329.3 4055311.1   60.6   3.40   4.00
3.16   NO   NO
 L0004834   0   0.15232E-03 733337.9 4055311.3   60.6   3.40   4.00
3.16   NO   NO
 L0004835   0   0.15232E-03 733346.5 4055311.5   60.6   3.40   4.00
3.16   NO   NO
 L0004836   0   0.15232E-03 733355.1 4055311.6   60.5   3.40   4.00
3.16   NO   NO
 L0004837   0   0.15232E-03 733363.7 4055311.8   60.5   3.40   4.00
3.16   NO   NO
 L0004838   0   0.15232E-03 733372.3 4055312.0   60.5   3.40   4.00
3.16   NO   NO
 L0004839   0   0.15232E-03 733380.9 4055312.1   60.5   3.40   4.00
3.16   NO   NO
 L0004840   0   0.15232E-03 733389.5 4055312.3   60.5   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0004841   0   0.15232E-03 733398.1 4055312.5   60.5   3.40   4.00

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3.16     NO                    NO
 L0004842         0   0.15232E-03  733406.7 4055312.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004843         0   0.15232E-03  733415.3 4055312.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004844         0   0.15232E-03  733423.8 4055313.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004845         0   0.15232E-03  733432.4 4055313.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004846         0   0.15232E-03  733439.4 4055314.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004847         0   0.15232E-03  733439.1 4055323.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004848         0   0.15232E-03  733438.8 4055332.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004849         0   0.15232E-03  733438.5 4055340.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004850         0   0.15232E-03  733438.1 4055349.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004851         0   0.15232E-03  733437.8 4055357.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004852         0   0.15232E-03  733437.5 4055366.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004853         0   0.15232E-03  733437.2 4055375.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004854         0   0.15232E-03  733436.9 4055383.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004855         0   0.15232E-03  733436.6 4055392.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004856         0   0.15232E-03  733436.2 4055400.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004857         0   0.15232E-03  733435.9 4055409.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004858         0   0.15232E-03  733435.6 4055418.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004859         0   0.15232E-03  733435.3 4055426.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004860         0   0.15232E-03  733435.0 4055435.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004861         0   0.15232E-03  733434.7 4055443.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004862         0   0.15232E-03  733434.3 4055452.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004863         0   0.15232E-03  733434.0 4055461.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004864         0   0.15232E-03  733433.7 4055469.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004865         0   0.15232E-03  733433.4 4055478.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004866         0   0.15232E-03  733433.1 4055486.7    60.4     3.40     4.00
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3.16     NO                     NO
 L0004867         0   0.15232E-03  733432.8 4055495.3    60.4     3.40     4.00
3.16     NO                     NO
 L0004868         0   0.15232E-03  733432.4 4055503.9    60.4     3.40     4.00
3.16     NO                     NO
 L0004869         0   0.15232E-03  733432.1 4055512.5    60.4     3.40     4.00
3.16     NO                     NO
 L0004870         0   0.15232E-03  733431.8 4055521.1    60.4     3.40     4.00
3.16     NO                     NO
 L0004871         0   0.15232E-03  733431.5 4055529.7    60.4     3.40     4.00
3.16     NO                     NO
 L0004872         0   0.15232E-03  733431.2 4055538.3    60.4     3.40     4.00
3.16     NO                     NO
 L0004873         0   0.15232E-03  733430.9 4055546.9    60.4     3.40     4.00
3.16     NO                     NO
 L0004874         0   0.15232E-03  733430.5 4055555.5    60.4     3.40     4.00
3.16     NO                     NO
 L0004875         0   0.15232E-03  733430.2 4055564.1    60.5     3.40     4.00
3.16     NO                     NO
 L0004876         0   0.15232E-03  733429.9 4055572.7    60.5     3.40     4.00
3.16     NO                     NO
 L0004877         0   0.15232E-03  733429.6 4055581.3    60.5     3.40     4.00
3.16     NO                     NO
 L0004878         0   0.15232E-03  733429.3 4055589.9    60.5     3.40     4.00
3.16     NO                     NO
 L0004879         0   0.15232E-03  733429.0 4055598.5    60.5     3.40     4.00
3.16     NO                     NO
 L0004880         0   0.15232E-03  733428.7 4055607.1    60.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0004881         0   0.15232E-03  733428.3 4055615.6    60.5     3.40     4.00
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3.16     NO                    NO
 L0004882         0   0.15232E-03  733428.0 4055624.2    60.5     3.40     4.00
3.16     NO                    NO
 L0004883         0   0.15232E-03  733427.7 4055632.8    60.5     3.40     4.00
3.16     NO                    NO
 L0004884         0   0.15232E-03  733427.4 4055641.4    60.5     3.40     4.00
3.16     NO                    NO
 L0004885         0   0.15232E-03  733427.1 4055650.0    60.5     3.40     4.00
3.16     NO                    NO
 L0004886         0   0.15232E-03  733426.8 4055658.6    60.5     3.40     4.00
3.16     NO                    NO
 L0004887         0   0.15232E-03  733426.4 4055667.2    60.5     3.40     4.00
3.16     NO                    NO
 L0004888         0   0.15232E-03  733426.1 4055675.8    60.5     3.40     4.00
3.16     NO                    NO
 L0004889         0   0.15232E-03  733425.8 4055684.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004890         0   0.15232E-03  733425.5 4055693.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004891         0   0.15232E-03  733425.2 4055701.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004892         0   0.15232E-03  733424.9 4055710.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004893         0   0.15232E-03  733424.5 4055718.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004894         0   0.15232E-03  733424.2 4055727.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004895         0   0.15232E-03  733423.9 4055736.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004896         0   0.15232E-03  733423.6 4055744.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004897         0   0.15232E-03  733423.3 4055753.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004898         0   0.15232E-03  733423.0 4055761.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004899         0   0.15232E-03  733422.6 4055770.3    60.4     3.40     4.00
3.16     NO                    NO
 L0004900         0   0.15232E-03  733422.3 4055778.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004901         0   0.15232E-03  733422.0 4055787.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004902         0   0.15232E-03  733421.7 4055796.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004903         0   0.15232E-03  733421.4 4055804.7    60.4     3.40     4.00
3.16     NO                    NO
 L0004904         0   0.15232E-03  733421.1 4055813.3    60.4     3.40     4.00
3.16     NO                    NO
 L0004905         0   0.15232E-03  733420.7 4055821.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004906         0   0.15232E-03  733420.4 4055830.5    60.4     3.40     4.00
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3.16 NO NO
L0004907 0 0.15232E-03 733420.1 4055839.1 60.4 3.40 4.00
3.16 NO NO
L0004908 0 0.15232E-03 733419.8 4055847.7 60.4 3.40 4.00
3.16 NO NO
L0004909 0 0.15232E-03 733419.5 4055856.3 60.4 3.40 4.00
3.16 NO NO
L0004910 0 0.15232E-03 733419.2 4055864.9 60.4 3.40 4.00
3.16 NO NO
L0004911 0 0.15232E-03 733418.8 4055873.5 60.4 3.40 4.00
3.16 NO NO
L0004912 0 0.15232E-03 733418.5 4055882.1 60.4 3.40 4.00
3.16 NO NO
L0004913 0 0.15232E-03 733418.2 4055890.7 60.4 3.40 4.00
3.16 NO NO
L0004914 0 0.15232E-03 733417.9 4055899.3 60.4 3.40 4.00
3.16 NO NO
L0004915 0 0.15232E-03 733417.6 4055907.9 60.4 3.40 4.00
3.16 NO NO
L0004916 0 0.15232E-03 733417.3 4055916.4 60.4 3.40 4.00
3.16 NO NO
L0004917 0 0.15232E-03 733416.9 4055925.0 60.4 3.40 4.00
3.16 NO NO
L0004918 0 0.15232E-03 733416.6 4055933.6 60.4 3.40 4.00
3.16 NO NO
L0004919 0 0.15232E-03 733416.3 4055942.2 60.4 3.40 4.00
3.16 NO NO
L0004920 0 0.15232E-03 733416.0 4055950.8 60.4 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0004921	0	0.15232E-03	733415.7	4055959.4	60.4	3.40	4.00				

```
3.16     NO                    NO
 L0004922         0   0.15232E-03  733415.4 4055968.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004923         0   0.15232E-03  733415.0 4055976.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004924         0   0.15232E-03  733414.7 4055985.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004925         0   0.15232E-03  733414.4 4055993.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004926         0   0.15232E-03  733414.1 4056002.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004927         0   0.15232E-03  733413.8 4056011.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004928         0   0.15232E-03  733413.5 4056019.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004929         0   0.15232E-03  733413.2 4056028.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004930         0   0.15232E-03  733412.8 4056036.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004931         0   0.15232E-03  733412.5 4056045.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004932         0   0.15232E-03  733412.2 4056054.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004933         0   0.15232E-03  733411.9 4056062.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004934         0   0.15232E-03  733411.6 4056071.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004935         0   0.15232E-03  733411.3 4056079.7    60.4     3.40     4.00
3.16     NO                    NO
 L0004936         0   0.15232E-03  733410.9 4056088.3    60.4     3.40     4.00
3.16     NO                    NO
 L0004937         0   0.15232E-03  733410.6 4056096.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004938         0   0.15232E-03  733410.3 4056105.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004939         0   0.15232E-03  733410.0 4056114.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004940         0   0.15232E-03  733409.7 4056122.7    60.4     3.40     4.00
3.16     NO                    NO
 L0004941         0   0.15232E-03  733409.4 4056131.3    60.4     3.40     4.00
3.16     NO                    NO
 L0004942         0   0.15232E-03  733409.0 4056139.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004943         0   0.15232E-03  733408.7 4056148.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004944         0   0.15232E-03  733408.4 4056157.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004945         0   0.15232E-03  733408.1 4056165.7    60.4     3.40     4.00
3.16     NO                    NO
 L0004946         0   0.15232E-03  733407.8 4056174.3    60.4     3.40     4.00
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3.16 NO NO
L0004947 0 0.15232E-03 733407.5 4056182.9 60.4 3.40 4.00
3.16 NO NO
L0004948 0 0.15232E-03 733407.1 4056191.5 60.4 3.40 4.00
3.16 NO NO
L0004949 0 0.15232E-03 733406.8 4056200.1 60.4 3.40 4.00
3.16 NO NO
L0004950 0 0.15232E-03 733406.5 4056208.6 60.4 3.40 4.00
3.16 NO NO
L0004951 0 0.15232E-03 733406.2 4056217.2 60.4 3.40 4.00
3.16 NO NO
L0004952 0 0.15232E-03 733405.9 4056225.8 60.4 3.40 4.00
3.16 NO NO
L0004953 0 0.15232E-03 733405.6 4056234.4 60.4 3.40 4.00
3.16 NO NO
L0004954 0 0.15232E-03 733405.2 4056243.0 60.4 3.40 4.00
3.16 NO NO
L0004955 0 0.15232E-03 733404.9 4056251.6 60.4 3.40 4.00
3.16 NO NO
L0004956 0 0.15232E-03 733404.6 4056260.2 60.4 3.40 4.00
3.16 NO NO
L0004957 0 0.15232E-03 733404.3 4056268.8 60.4 3.40 4.00
3.16 NO NO
L0004958 0 0.15232E-03 733404.0 4056277.4 60.4 3.40 4.00
3.16 NO NO
L0004959 0 0.15232E-03 733403.7 4056286.0 60.4 3.40 4.00
3.16 NO NO
L0004960 0 0.15232E-03 733403.3 4056294.6 60.4 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0004961	0	0.15232E-03	733403.0	4056303.2	60.4	3.40	4.00			

3.16 NO NO
L0004962 0 0.15232E-03 733402.7 4056311.8 60.4 3.40 4.00
3.16 NO NO
L0004963 0 0.15232E-03 733402.4 4056320.4 60.4 3.40 4.00
3.16 NO NO
L0004964 0 0.15232E-03 733402.1 4056329.0 60.4 3.40 4.00
3.16 NO NO
L0004965 0 0.15232E-03 733401.8 4056337.6 60.4 3.40 4.00
3.16 NO NO
L0004966 0 0.15232E-03 733401.4 4056346.2 60.4 3.40 4.00
3.16 NO NO
L0004967 0 0.15232E-03 733401.1 4056354.7 60.4 3.40 4.00
3.16 NO NO
L0004968 0 0.15232E-03 733400.8 4056363.3 60.4 3.40 4.00
3.16 NO NO
L0004969 0 0.15232E-03 733400.5 4056371.9 60.4 3.40 4.00
3.16 NO NO
L0004970 0 0.15232E-03 733400.2 4056380.5 60.4 3.40 4.00
3.16 NO NO
L0004971 0 0.15232E-03 733399.9 4056389.1 60.4 3.40 4.00
3.16 NO NO
L0004972 0 0.15232E-03 733399.5 4056397.7 60.4 3.40 4.00
3.16 NO NO
L0004973 0 0.15232E-03 733399.2 4056406.3 60.4 3.40 4.00
3.16 NO NO
L0004974 0 0.15232E-03 733398.9 4056414.9 60.4 3.40 4.00
3.16 NO NO
L0004975 0 0.15232E-03 733398.6 4056423.5 60.4 3.40 4.00
3.16 NO NO
L0004976 0 0.15232E-03 733398.3 4056432.1 60.5 3.40 4.00
3.16 NO NO
L0004977 0 0.15232E-03 733398.0 4056440.7 60.5 3.40 4.00
3.16 NO NO
L0004978 0 0.15232E-03 733397.6 4056449.3 60.5 3.40 4.00
3.16 NO NO
L0004979 0 0.15232E-03 733397.3 4056457.9 60.5 3.40 4.00
3.16 NO NO
L0004980 0 0.15232E-03 733397.0 4056466.5 60.5 3.40 4.00
3.16 NO NO
L0004981 0 0.15232E-03 733396.7 4056475.1 60.5 3.40 4.00
3.16 NO NO
L0004982 0 0.15232E-03 733396.4 4056483.7 60.5 3.40 4.00
3.16 NO NO
L0004983 0 0.15232E-03 733396.1 4056492.3 60.5 3.40 4.00
3.16 NO NO
L0004984 0 0.15232E-03 733395.8 4056500.8 60.5 3.40 4.00
3.16 NO NO
L0004985 0 0.15232E-03 733395.4 4056509.4 60.5 3.40 4.00
3.16 NO NO
L0004986 0 0.15232E-03 733395.1 4056518.0 60.5 3.40 4.00

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3.16     NO                     NO
 L0004987         0   0.15232E-03  733394.8 4056526.6    60.5     3.40     4.00
3.16     NO                     NO
 L0004988         0   0.15232E-03  733394.5 4056535.2    60.5     3.40     4.00
3.16     NO                     NO
 L0004989         0   0.15232E-03  733394.2 4056543.8    60.5     3.40     4.00
3.16     NO                     NO
 L0004990         0   0.15232E-03  733393.9 4056552.4    60.5     3.40     4.00
3.16     NO                     NO
 L0004991         0   0.15232E-03  733393.5 4056561.0    60.5     3.40     4.00
3.16     NO                     NO
 L0004992         0   0.15232E-03  733393.2 4056569.6    60.5     3.40     4.00
3.16     NO                     NO
 L0004993         0   0.15232E-03  733392.9 4056578.2    60.5     3.40     4.00
3.16     NO                     NO
 L0004994         0   0.15232E-03  733392.6 4056586.8    60.5     3.40     4.00
3.16     NO                     NO
 L0004995         0   0.15232E-03  733392.3 4056595.4    60.5     3.40     4.00
3.16     NO                     NO
 L0004996         0   0.15232E-03  733392.0 4056604.0    60.5     3.40     4.00
3.16     NO                     NO
 L0004997         0   0.15232E-03  733391.6 4056612.6    60.5     3.40     4.00
3.16     NO                     NO
 L0004998         0   0.15232E-03  733391.3 4056621.2    60.5     3.40     4.00
3.16     NO                     NO
 L0004999         0   0.15232E-03  733391.0 4056629.8    60.5     3.40     4.00
3.16     NO                     NO
 L0005000         0   0.15232E-03  733390.7 4056638.4    60.5     3.40     4.00
3.16     NO                     NO
```


*** VOLUME SOURCE DATA ***

```
               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005001         0   0.15232E-03  733390.4 4056647.0    60.5     3.40     4.00
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3.16     NO                    NO
 L0005002         0   0.15232E-03  733390.1 4056655.5    60.5     3.40     4.00
3.16     NO                    NO
 L0005003         0   0.15232E-03  733389.7 4056664.1    60.5     3.40     4.00
3.16     NO                    NO
 L0005004         0   0.15232E-03  733389.4 4056672.7    60.5     3.40     4.00
3.16     NO                    NO
 L0005005         0   0.15232E-03  733389.1 4056681.3    60.5     3.40     4.00
3.16     NO                    NO
 L0005006         0   0.15232E-03  733388.8 4056689.9    60.5     3.40     4.00
3.16     NO                    NO
 L0005007         0   0.15232E-03  733388.5 4056698.5    60.5     3.40     4.00
3.16     NO                    NO
 L0005008         0   0.15232E-03  733388.2 4056707.1    60.5     3.40     4.00
3.16     NO                    NO
 L0005009         0   0.15232E-03  733387.8 4056715.7    60.5     3.40     4.00
3.16     NO                    NO
 L0005010         0   0.15232E-03  733387.5 4056724.3    60.5     3.40     4.00
3.16     NO                    NO
 L0005011         0   0.15232E-03  733380.3 4056725.3    60.5     3.40     4.00
3.16     NO                    NO
 L0005012         0   0.15232E-03  733371.7 4056724.9    60.5     3.40     4.00
3.16     NO                    NO
 L0005013         0   0.15232E-03  733363.1 4056724.6    60.6     3.40     4.00
3.16     NO                    NO
 L0005014         0   0.15232E-03  733354.5 4056724.2    60.6     3.40     4.00
3.16     NO                    NO
 L0005015         0   0.15232E-03  733345.9 4056723.8    60.6     3.40     4.00
3.16     NO                    NO
 L0005016         0   0.15232E-03  733337.3 4056723.4    60.6     3.40     4.00
3.16     NO                    NO
 L0005017         0   0.15232E-03  733328.7 4056723.0    60.6     3.40     4.00
3.16     NO                    NO
 L0005018         0   0.15232E-03  733320.1 4056722.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005019         0   0.15232E-03  733311.5 4056722.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005020         0   0.15232E-03  733303.0 4056721.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005021         0   0.15232E-03  733294.4 4056721.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005022         0   0.15232E-03  733285.8 4056721.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005023         0   0.15232E-03  733277.2 4056720.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005024         0   0.15232E-03  733268.6 4056720.2    60.8     3.40     4.00
3.16     NO                    NO
 L0005025         0   0.15232E-03  733260.0 4056719.8    60.8     3.40     4.00
3.16     NO                    NO
 L0005026         0   0.15232E-03  733251.4 4056719.4    60.8     3.40     4.00
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3.16 NO NO
L0005027 0 0.15232E-03 733242.8 4056719.0 60.8 3.40 4.00
3.16 NO NO
L0005028 0 0.15232E-03 733234.2 4056718.6 60.8 3.40 4.00
3.16 NO NO
L0005029 0 0.15232E-03 733225.6 4056718.2 60.8 3.40 4.00
3.16 NO NO
L0005030 0 0.15232E-03 733217.0 4056717.8 60.9 3.40 4.00
3.16 NO NO
L0005031 0 0.15232E-03 733208.5 4056717.4 60.9 3.40 4.00
3.16 NO NO
L0005032 0 0.15232E-03 733199.9 4056717.0 60.9 3.40 4.00
3.16 NO NO
L0005033 0 0.15232E-03 733191.3 4056716.6 60.9 3.40 4.00
3.16 NO NO
L0005034 0 0.15232E-03 733182.7 4056716.2 60.9 3.40 4.00
3.16 NO NO
L0005035 0 0.15232E-03 733174.1 4056715.8 61.0 3.40 4.00
3.16 NO NO
L0005036 0 0.15232E-03 733165.5 4056715.4 61.0 3.40 4.00
3.16 NO NO
L0005037 0 0.15232E-03 733156.9 4056715.0 61.0 3.40 4.00
3.16 NO NO
L0005038 0 0.15232E-03 733148.3 4056714.6 61.1 3.40 4.00
3.16 NO NO
L0005039 0 0.15232E-03 733139.7 4056714.2 61.1 3.40 4.00
3.16 NO NO
L0005040 0 0.15232E-03 733131.1 4056713.8 61.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005041	0	0.15232E-03	733122.5	4056713.4	61.1	3.40	4.00			

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3.16     NO                    NO
 L0005042         0   0.15232E-03  733114.0 4056713.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005043         0   0.15232E-03  733105.4 4056712.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005044         0   0.15232E-03  733096.8 4056712.2    61.2     3.40     4.00
3.16     NO                    NO
 L0005045         0   0.15232E-03  733088.2 4056711.8    61.2     3.40     4.00
3.16     NO                    NO
 L0005046         0   0.15232E-03  733079.6 4056711.4    61.2     3.40     4.00
3.16     NO                    NO
 L0005047         0   0.15232E-03  733071.0 4056711.0    61.2     3.40     4.00
3.16     NO                    NO
 L0005048         0   0.15232E-03  733062.4 4056710.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005049         0   0.15232E-03  733053.8 4056710.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005050         0   0.15232E-03  733045.2 4056709.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005051         0   0.15232E-03  733036.6 4056709.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005052         0   0.15232E-03  733028.1 4056709.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005053         0   0.15232E-03  733019.5 4056708.6    61.4     3.40     4.00
3.16     NO                    NO
 L0005054         0   0.15232E-03  733015.1 4056704.3    61.4     3.40     4.00
3.16     NO                    NO
 L0005055         0   0.15232E-03  733015.5 4056695.8    61.4     3.40     4.00
3.16     NO                    NO
 L0005056         0   0.15232E-03  733015.9 4056687.2    61.4     3.40     4.00
3.16     NO                    NO
 L0005057         0   0.15232E-03  733016.3 4056678.6    61.4     3.40     4.00
3.16     NO                    NO
 L0005058         0   0.15232E-03  733016.7 4056670.0    61.4     3.40     4.00
3.16     NO                    NO
 L0005059         0   0.15232E-03  733017.1 4056661.4    61.4     3.40     4.00
3.16     NO                    NO
 L0005060         0   0.15232E-03  733017.6 4056652.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005061         0   0.15232E-03  733018.0 4056644.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005062         0   0.15232E-03  733018.4 4056635.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005063         0   0.15232E-03  733018.8 4056627.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005064         0   0.15232E-03  733019.2 4056618.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005065         0   0.15232E-03  733019.6 4056609.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005066         0   0.15232E-03  733020.1 4056601.3    61.3     3.40     4.00
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3.16 NO NO
L0005067 0 0.15232E-03 733020.5 4056592.7 61.3 3.40 4.00
3.16 NO NO
L0005068 0 0.15232E-03 733020.9 4056584.1 61.3 3.40 4.00
3.16 NO NO
L0005069 0 0.15232E-03 733021.3 4056575.5 61.3 3.40 4.00
3.16 NO NO
L0005070 0 0.15232E-03 733021.7 4056566.9 61.3 3.40 4.00
3.16 NO NO
L0005071 0 0.15232E-03 733022.1 4056558.3 61.3 3.40 4.00
3.16 NO NO
L0005072 0 0.15232E-03 733022.6 4056549.7 61.3 3.40 4.00
3.16 NO NO
L0005073 0 0.15232E-03 733023.0 4056541.1 61.3 3.40 4.00
3.16 NO NO
L0005074 0 0.15232E-03 733023.4 4056532.5 61.3 3.40 4.00
3.16 NO NO
L0005075 0 0.15232E-03 733023.8 4056524.0 61.3 3.40 4.00
3.16 NO NO
L0005076 0 0.15232E-03 733024.2 4056515.4 61.3 3.40 4.00
3.16 NO NO
L0005077 0 0.15232E-03 733024.6 4056506.8 61.3 3.40 4.00
3.16 NO NO
L0005078 0 0.15232E-03 733025.0 4056498.2 61.3 3.40 4.00
3.16 NO NO
L0005079 0 0.15232E-03 733025.5 4056489.6 61.3 3.40 4.00
3.16 NO NO
L0005080 0 0.15232E-03 733025.9 4056481.0 61.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0005081	0	0.15232E-03	733026.3	4056472.4	61.3	3.40	4.00				

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3.16     NO                    NO
 L0005082         0   0.15232E-03  733026.7 4056463.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005083         0   0.15232E-03  733027.1 4056455.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005084         0   0.15232E-03  733027.5 4056446.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005085         0   0.15232E-03  733028.0 4056438.1    61.3     3.40     4.00
3.16     NO                    NO
 L0005086         0   0.15232E-03  733028.4 4056429.5    61.3     3.40     4.00
3.16     NO                    NO
 L0005087         0   0.15232E-03  733028.8 4056420.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005088         0   0.15232E-03  733029.2 4056412.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005089         0   0.15232E-03  733029.6 4056403.7    61.3     3.40     4.00
3.16     NO                    NO
 L0005090         0   0.15232E-03  733030.0 4056395.1    61.3     3.40     4.00
3.16     NO                    NO
 L0005091         0   0.15232E-03  733030.4 4056386.5    61.3     3.40     4.00
3.16     NO                    NO
 L0005092         0   0.15232E-03  733030.9 4056377.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005093         0   0.15232E-03  733031.3 4056369.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005094         0   0.15232E-03  733031.7 4056360.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005095         0   0.15232E-03  733032.1 4056352.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005096         0   0.15232E-03  733032.5 4056343.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005097         0   0.15232E-03  733032.9 4056335.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005098         0   0.15232E-03  733033.4 4056326.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005099         0   0.15232E-03  733033.8 4056317.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005100         0   0.15232E-03  733034.2 4056309.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005101         0   0.15232E-03  733034.6 4056300.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005102         0   0.15232E-03  733035.0 4056292.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005103         0   0.15232E-03  733035.4 4056283.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005104         0   0.15232E-03  733035.9 4056274.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005105         0   0.15232E-03  733036.3 4056266.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005106         0   0.15232E-03  733036.7 4056257.7    61.3     3.40     4.00
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3.16     NO                     NO
 L0005107         0   0.15232E-03  733037.1 4056249.1    61.3     3.40     4.00
3.16     NO                     NO
 L0005108         0   0.15232E-03  733037.5 4056240.5    61.3     3.40     4.00
3.16     NO                     NO
 L0005109         0   0.15232E-03  733037.9 4056231.9    61.3     3.40     4.00
3.16     NO                     NO
 L0005110         0   0.15232E-03  733038.3 4056223.3    61.3     3.40     4.00
3.16     NO                     NO
 L0005111         0   0.15232E-03  733038.8 4056214.7    61.3     3.40     4.00
3.16     NO                     NO
 L0005112         0   0.15232E-03  733039.2 4056206.1    61.3     3.40     4.00
3.16     NO                     NO
 L0005113         0   0.15232E-03  733039.6 4056197.5    61.3     3.40     4.00
3.16     NO                     NO
 L0005114         0   0.15232E-03  733040.0 4056189.0    61.3     3.40     4.00
3.16     NO                     NO
 L0005115         0   0.15232E-03  733040.4 4056180.4    61.3     3.40     4.00
3.16     NO                     NO
 L0005116         0   0.15232E-03  733040.8 4056171.8    61.3     3.40     4.00
3.16     NO                     NO
 L0005117         0   0.15232E-03  733032.9 4056170.7    61.3     3.40     4.00
3.16     NO                     NO
 L0005118         0   0.15232E-03  733024.4 4056170.2    61.3     3.40     4.00
3.16     NO                     NO
 L0005119         0   0.15232E-03  733015.8 4056169.7    61.3     3.40     4.00
3.16     NO                     NO
 L0005120         0   0.15232E-03  733007.2 4056169.3    61.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 130
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005121         0   0.15232E-03  732998.6 4056168.8    61.4     3.40     4.00
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3.16     NO                    NO
 L0005122         0   0.15232E-03  732990.0 4056168.3    61.4     3.40     4.00
3.16     NO                    NO
 L0005123         0   0.15232E-03  732981.4 4056167.9    61.4     3.40     4.00
3.16     NO                    NO
 L0005124         0   0.15232E-03  732972.8 4056167.4    61.4     3.40     4.00
3.16     NO                    NO
 L0005125         0   0.15232E-03  732964.2 4056166.9    61.5     3.40     4.00
3.16     NO                    NO
 L0005126         0   0.15232E-03  732955.7 4056166.4    61.5     3.40     4.00
3.16     NO                    NO
 L0005127         0   0.15232E-03  732947.1 4056166.0    61.5     3.40     4.00
3.16     NO                    NO
 L0005128         0   0.15232E-03  732938.5 4056165.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005129         0   0.15232E-03  732929.9 4056165.0    61.5     3.40     4.00
3.16     NO                    NO
 L0005130         0   0.15232E-03  732921.3 4056164.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005131         0   0.15232E-03  732912.7 4056164.1    61.6     3.40     4.00
3.16     NO                    NO
 L0005132         0   0.15232E-03  732904.1 4056163.6    61.6     3.40     4.00
3.16     NO                    NO
 L0005133         0   0.15232E-03  732895.5 4056163.1    61.6     3.40     4.00
3.16     NO                    NO
 L0005134         0   0.15232E-03  732887.0 4056162.7    61.6     3.40     4.00
3.16     NO                    NO
 L0005135         0   0.15232E-03  732878.4 4056162.2    61.6     3.40     4.00
3.16     NO                    NO
 L0005136         0   0.15232E-03  732869.8 4056161.7    61.7     3.40     4.00
3.16     NO                    NO
 L0005137         0   0.15232E-03  732861.2 4056161.2    61.7     3.40     4.00
3.16     NO                    NO
 L0005138         0   0.15232E-03  732852.6 4056160.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005139         0   0.15232E-03  732844.0 4056160.3    61.7     3.40     4.00
3.16     NO                    NO
 L0005140         0   0.15232E-03  732835.4 4056159.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005141         0   0.15232E-03  732826.8 4056159.4    61.8     3.40     4.00
3.16     NO                    NO
 L0005142         0   0.15232E-03  732818.3 4056158.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005143         0   0.15232E-03  732809.7 4056158.4    61.8     3.40     4.00
3.16     NO                    NO
 L0005144         0   0.15232E-03  732801.1 4056157.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005145         0   0.15232E-03  732792.5 4056157.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005146         0   0.15232E-03  732783.9 4056157.0    61.8     3.40     4.00
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3.16 NO NO
L0005147 0 0.15232E-03 732775.3 4056156.5 61.9 3.40 4.00
3.16 NO NO
L0005148 0 0.15232E-03 732766.7 4056156.1 61.9 3.40 4.00
3.16 NO NO
L0005149 0 0.15232E-03 732758.2 4056155.6 61.9 3.40 4.00
3.16 NO NO
L0005150 0 0.15232E-03 732749.6 4056155.1 61.9 3.40 4.00
3.16 NO NO
L0005151 0 0.15232E-03 732741.0 4056154.6 61.9 3.40 4.00
3.16 NO NO
L0005152 0 0.15232E-03 732732.4 4056154.2 61.9 3.40 4.00
3.16 NO NO
L0005153 0 0.15232E-03 732723.8 4056153.7 62.0 3.40 4.00
3.16 NO NO
L0005154 0 0.15232E-03 732715.2 4056153.2 62.0 3.40 4.00
3.16 NO NO
L0005155 0 0.15232E-03 732706.6 4056152.8 62.0 3.40 4.00
3.16 NO NO
L0005156 0 0.15232E-03 732698.0 4056152.3 62.0 3.40 4.00
3.16 NO NO
L0005157 0 0.15232E-03 732689.5 4056151.8 62.0 3.40 4.00
3.16 NO NO
L0005158 0 0.15232E-03 732680.9 4056151.3 62.0 3.40 4.00
3.16 NO NO
L0005159 0 0.15232E-03 732672.3 4056150.9 62.1 3.40 4.00
3.16 NO NO
L0005160 0 0.15232E-03 732663.7 4056150.4 62.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005161	0	0.15232E-03	732655.1	4056149.9	62.1	3.40	4.00			

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3.16     NO                    NO
 L0005162         0   0.15232E-03  732646.5 4056149.5    62.1     3.40     4.00
3.16     NO                    NO
 L0005163         0   0.15232E-03  732637.9 4056149.0    62.2     3.40     4.00
3.16     NO                    NO
 L0005164         0   0.15232E-03  732629.3 4056148.5    62.2     3.40     4.00
3.16     NO                    NO
 L0005165         0   0.15232E-03  732620.8 4056148.0    62.2     3.40     4.00
3.16     NO                    NO
 L0005166         0   0.15232E-03  732612.2 4056147.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005167         0   0.15232E-03  732603.6 4056147.1    62.2     3.40     4.00
3.16     NO                    NO
 L0005168         0   0.15232E-03  732595.0 4056146.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005169         0   0.15232E-03  732586.4 4056146.1    62.3     3.40     4.00
3.16     NO                    NO
 L0005170         0   0.15232E-03  732577.8 4056145.7    62.3     3.40     4.00
3.16     NO                    NO
 L0005171         0   0.15232E-03  732569.2 4056145.2    62.3     3.40     4.00
3.16     NO                    NO
 L0005172         0   0.15232E-03  732560.6 4056144.7    62.3     3.40     4.00
3.16     NO                    NO
 L0005173         0   0.15232E-03  732552.1 4056144.3    62.3     3.40     4.00
3.16     NO                    NO
 L0005174         0   0.15232E-03  732543.5 4056143.8    62.3     3.40     4.00
3.16     NO                    NO
 L0005175         0   0.15232E-03  732534.9 4056143.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005176         0   0.15232E-03  732526.3 4056142.8    62.4     3.40     4.00
3.16     NO                    NO
 L0005177         0   0.15232E-03  732517.7 4056142.4    62.4     3.40     4.00
3.16     NO                    NO
 L0005178         0   0.15232E-03  732509.1 4056141.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005179         0   0.15232E-03  732500.5 4056141.4    62.4     3.40     4.00
3.16     NO                    NO
 L0005180         0   0.15232E-03  732492.0 4056141.0    62.5     3.40     4.00
3.16     NO                    NO
 L0005181         0   0.15232E-03  732483.4 4056140.5    62.5     3.40     4.00
3.16     NO                    NO
 L0005182         0   0.15232E-03  732474.8 4056140.0    62.5     3.40     4.00
3.16     NO                    NO
 L0005183         0   0.15232E-03  732466.2 4056139.5    62.5     3.40     4.00
3.16     NO                    NO
 L0005184         0   0.15232E-03  732457.6 4056139.1    62.5     3.40     4.00
3.16     NO                    NO
 L0005185         0   0.15232E-03  732449.0 4056138.6    62.6     3.40     4.00
3.16     NO                    NO
 L0005186         0   0.15232E-03  732440.4 4056138.1    62.6     3.40     4.00
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3.16     NO                     NO
 L0005187         0   0.15232E-03  732431.8 4056137.7    62.6     3.40     4.00
3.16     NO                     NO
 L0005188         0   0.15232E-03  732423.3 4056137.2    62.6     3.40     4.00
3.16     NO                     NO
 L0005189         0   0.15232E-03  732414.7 4056136.7    62.6     3.40     4.00
3.16     NO                     NO
 L0005190         0   0.15232E-03  732406.1 4056136.2    62.6     3.40     4.00
3.16     NO                     NO
 L0005191         0   0.15232E-03  732397.5 4056135.8    62.7     3.40     4.00
3.16     NO                     NO
 L0005192         0   0.15232E-03  732388.9 4056135.3    62.7     3.40     4.00
3.16     NO                     NO
 L0005193         0   0.15232E-03  732380.3 4056134.8    62.7     3.40     4.00
3.16     NO                     NO
 L0005194         0   0.15232E-03  732371.7 4056134.4    62.7     3.40     4.00
3.16     NO                     NO
 L0005195         0   0.15232E-03  732363.1 4056133.9    62.7     3.40     4.00
3.16     NO                     NO
 L0005196         0   0.15232E-03  732354.6 4056133.4    62.8     3.40     4.00
3.16     NO                     NO
 L0005197         0   0.15232E-03  732346.0 4056132.9    62.8     3.40     4.00
3.16     NO                     NO
 L0005198         0   0.15232E-03  732337.4 4056132.5    62.8     3.40     4.00
3.16     NO                     NO
 L0005199         0   0.15232E-03  732328.8 4056132.0    62.8     3.40     4.00
3.16     NO                     NO
 L0005200         0   0.15232E-03  732320.2 4056131.5    62.8     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

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               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005201         0   0.15232E-03  732311.6 4056131.0    62.8     3.40     4.00
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3.16     NO                    NO
 L0005202         0   0.15232E-03  732303.0 4056130.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005203         0   0.15232E-03  732294.5 4056130.1    62.9     3.40     4.00
3.16     NO                    NO
 L0005204         0   0.15232E-03  732285.9 4056129.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005205         0   0.15232E-03  732277.3 4056129.2    62.9     3.40     4.00
3.16     NO                    NO
 L0005206         0   0.15232E-03  732268.7 4056128.7    62.9     3.40     4.00
3.16     NO                    NO
 L0005207         0   0.15232E-03  732260.1 4056128.2    63.0     3.40     4.00
3.16     NO                    NO
 L0005208         0   0.15232E-03  732252.4 4056127.0    63.0     3.40     4.00
3.16     NO                    NO
 L0005209         0   0.15232E-03  732252.5 4056118.4    63.0     3.40     4.00
3.16     NO                    NO
 L0005210         0   0.15232E-03  732252.6 4056109.8    63.0     3.40     4.00
3.16     NO                    NO
 L0005211         0   0.15232E-03  732252.7 4056101.2    63.0     3.40     4.00
3.16     NO                    NO
 L0005212         0   0.15232E-03  732252.8 4056092.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005213         0   0.15232E-03  732252.9 4056084.0    62.9     3.40     4.00
3.16     NO                    NO
 L0005214         0   0.15232E-03  732253.0 4056075.4    62.9     3.40     4.00
3.16     NO                    NO
 L0005215         0   0.15232E-03  732253.1 4056066.8    62.9     3.40     4.00
3.16     NO                    NO
 L0005216         0   0.15232E-03  732253.3 4056058.2    62.9     3.40     4.00
3.16     NO                    NO
 L0005217         0   0.15232E-03  732253.4 4056049.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005218         0   0.15232E-03  732253.5 4056041.0    62.9     3.40     4.00
3.16     NO                    NO
 L0005219         0   0.15232E-03  732253.6 4056032.4    62.9     3.40     4.00
3.16     NO                    NO
 L0005220         0   0.15232E-03  732253.7 4056023.8    62.9     3.40     4.00
3.16     NO                    NO
 L0005221         0   0.15232E-03  732253.8 4056015.2    62.9     3.40     4.00
3.16     NO                    NO
 L0005222         0   0.15232E-03  732253.9 4056006.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005223         0   0.15232E-03  732254.1 4055998.0    62.9     3.40     4.00
3.16     NO                    NO
 L0005224         0   0.15232E-03  732254.2 4055989.4    62.9     3.40     4.00
3.16     NO                    NO
 L0005225         0   0.15232E-03  732254.3 4055980.8    62.9     3.40     4.00
3.16     NO                    NO
 L0005226         0   0.15232E-03  732254.4 4055972.2    62.8     3.40     4.00
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3.16 NO NO
L0005227 0 0.15232E-03 732254.5 4055963.6 62.8 3.40 4.00
3.16 NO NO
L0005228 0 0.15232E-03 732254.6 4055955.0 62.8 3.40 4.00
3.16 NO NO
L0005229 0 0.15232E-03 732254.7 4055946.4 62.8 3.40 4.00
3.16 NO NO
L0005230 0 0.15232E-03 732254.8 4055937.8 62.8 3.40 4.00
3.16 NO NO
L0005231 0 0.15232E-03 732255.0 4055929.2 62.8 3.40 4.00
3.16 NO NO
L0005232 0 0.15232E-03 732255.1 4055920.6 62.8 3.40 4.00
3.16 NO NO
L0005233 0 0.15232E-03 732255.2 4055912.0 62.8 3.40 4.00
3.16 NO NO
L0005234 0 0.15232E-03 732255.3 4055903.4 62.8 3.40 4.00
3.16 NO NO
L0005235 0 0.15232E-03 732255.4 4055894.8 62.8 3.40 4.00
3.16 NO NO
L0005236 0 0.15232E-03 732255.5 4055886.2 62.8 3.40 4.00
3.16 NO NO
L0005237 0 0.15232E-03 732255.6 4055877.6 62.8 3.40 4.00
3.16 NO NO
L0005238 0 0.15232E-03 732255.8 4055869.0 62.8 3.40 4.00
3.16 NO NO
L0005239 0 0.15232E-03 732255.9 4055860.4 62.8 3.40 4.00
3.16 NO NO
L0005240 0 0.15232E-03 732256.0 4055851.8 62.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005241	0	0.15232E-03	732256.1	4055843.2	62.7	3.40	4.00			

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3.16     NO                    NO
 L0005242         0   0.15232E-03  732256.2 4055834.6    62.7     3.40     4.00
3.16     NO                    NO
 L0005243         0   0.15232E-03  732256.3 4055826.0    62.7     3.40     4.00
3.16     NO                    NO
 L0005244         0   0.15232E-03  732256.4 4055817.4    62.7     3.40     4.00
3.16     NO                    NO
 L0005245         0   0.15232E-03  732256.5 4055808.8    62.7     3.40     4.00
3.16     NO                    NO
 L0005246         0   0.15232E-03  732256.7 4055800.2    62.7     3.40     4.00
3.16     NO                    NO
 L0005247         0   0.15232E-03  732256.8 4055791.6    62.7     3.40     4.00
3.16     NO                    NO
 L0005248         0   0.15232E-03  732256.9 4055783.0    62.7     3.40     4.00
3.16     NO                    NO
 L0005249         0   0.15232E-03  732257.0 4055774.4    62.7     3.40     4.00
3.16     NO                    NO
 L0005250         0   0.15232E-03  732257.1 4055765.8    62.7     3.40     4.00
3.16     NO                    NO
 L0005251         0   0.15232E-03  732257.2 4055757.2    62.7     3.40     4.00
3.16     NO                    NO
 L0005252         0   0.15232E-03  732257.3 4055748.6    62.7     3.40     4.00
3.16     NO                    NO
 L0005253         0   0.15232E-03  732257.4 4055740.0    62.7     3.40     4.00
3.16     NO                    NO
 L0005254         0   0.15232E-03  732257.6 4055731.4    62.7     3.40     4.00
3.16     NO                    NO
 L0005255         0   0.15232E-03  732257.7 4055722.8    62.7     3.40     4.00
3.16     NO                    NO
 L0005256         0   0.15232E-03  732257.8 4055714.2    62.7     3.40     4.00
3.16     NO                    NO
 L0005257         0   0.15232E-03  732257.9 4055705.6    62.7     3.40     4.00
3.16     NO                    NO
 L0005258         0   0.15232E-03  732258.0 4055697.0    62.6     3.40     4.00
3.16     NO                    NO
 L0005259         0   0.15232E-03  732258.1 4055688.4    62.6     3.40     4.00
3.16     NO                    NO
 L0005260         0   0.15232E-03  732258.2 4055679.8    62.6     3.40     4.00
3.16     NO                    NO
 L0005261         0   0.15232E-03  732258.4 4055671.2    62.6     3.40     4.00
3.16     NO                    NO
 L0005262         0   0.15232E-03  732258.5 4055662.6    62.6     3.40     4.00
3.16     NO                    NO
 L0005263         0   0.15232E-03  732258.6 4055654.0    62.6     3.40     4.00
3.16     NO                    NO
 L0005264         0   0.15232E-03  732258.7 4055645.4    62.6     3.40     4.00
3.16     NO                    NO
 L0005265         0   0.15232E-03  732258.8 4055636.8    62.6     3.40     4.00
3.16     NO                    NO
 L0005266         0   0.15232E-03  732258.9 4055628.2    62.6     3.40     4.00
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3.16 NO NO
L0005267 0 0.15232E-03 732259.0 4055619.6 62.6 3.40 4.00
3.16 NO NO
L0005268 0 0.15232E-03 732259.1 4055611.0 62.6 3.40 4.00
3.16 NO NO
L0005269 0 0.15232E-03 732259.3 4055602.4 62.6 3.40 4.00
3.16 NO NO
L0005270 0 0.15232E-03 732259.4 4055593.8 62.5 3.40 4.00
3.16 NO NO
L0005271 0 0.15232E-03 732259.5 4055585.2 62.5 3.40 4.00
3.16 NO NO
L0005272 0 0.15232E-03 732259.6 4055576.6 62.5 3.40 4.00
3.16 NO NO
L0005273 0 0.15232E-03 732259.7 4055568.0 62.5 3.40 4.00
3.16 NO NO
L0005274 0 0.15232E-03 732259.8 4055559.4 62.5 3.40 4.00
3.16 NO NO
L0005275 0 0.15232E-03 732259.9 4055550.8 62.5 3.40 4.00
3.16 NO NO
L0005276 0 0.15232E-03 732260.1 4055542.2 62.5 3.40 4.00
3.16 NO NO
L0005277 0 0.15232E-03 732260.2 4055533.6 62.5 3.40 4.00
3.16 NO NO
L0005278 0 0.15232E-03 732260.3 4055525.0 62.5 3.40 4.00
3.16 NO NO
L0005279 0 0.15232E-03 732260.4 4055516.4 62.5 3.40 4.00
3.16 NO NO
L0005280 0 0.15232E-03 732260.5 4055507.8 62.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005281	0	0.15232E-03	732260.6	4055499.2	62.5	3.40	4.00			

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3.16     NO                    NO
 L0005282         0   0.15232E-03  732260.7 4055490.6    62.5     3.40     4.00
3.16     NO                    NO
 L0005283         0   0.15232E-03  732260.8 4055482.0    62.5     3.40     4.00
3.16     NO                    NO
 L0005284         0   0.15232E-03  732261.0 4055473.4    62.5     3.40     4.00
3.16     NO                    NO
 L0005285         0   0.15232E-03  732265.4 4055469.3    62.5     3.40     4.00
3.16     NO                    NO
 L0005286         0   0.15232E-03  732274.0 4055469.5    62.5     3.40     4.00
3.16     NO                    NO
 L0005287         0   0.15232E-03  732282.6 4055469.6    62.4     3.40     4.00
3.16     NO                    NO
 L0005288         0   0.15232E-03  732291.2 4055469.8    62.4     3.40     4.00
3.16     NO                    NO
 L0005289         0   0.15232E-03  732299.8 4055469.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005290         0   0.15232E-03  732308.4 4055470.1    62.4     3.40     4.00
3.16     NO                    NO
 L0005291         0   0.15232E-03  732317.0 4055470.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005292         0   0.15232E-03  732325.6 4055470.4    62.4     3.40     4.00
3.16     NO                    NO
 L0005293         0   0.15232E-03  732334.2 4055470.6    62.3     3.40     4.00
3.16     NO                    NO
 L0005294         0   0.15232E-03  732342.8 4055470.7    62.3     3.40     4.00
3.16     NO                    NO
 L0005295         0   0.15232E-03  732351.4 4055470.9    62.3     3.40     4.00
3.16     NO                    NO
 L0005296         0   0.15232E-03  732360.0 4055471.0    62.3     3.40     4.00
3.16     NO                    NO
 L0005297         0   0.15232E-03  732368.6 4055471.2    62.3     3.40     4.00
3.16     NO                    NO
 L0005298         0   0.15232E-03  732377.2 4055471.3    62.3     3.40     4.00
3.16     NO                    NO
 L0005299         0   0.15232E-03  732385.8 4055471.5    62.2     3.40     4.00
3.16     NO                    NO
 L0005300         0   0.15232E-03  732394.4 4055471.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005301         0   0.15232E-03  732403.0 4055471.8    62.2     3.40     4.00
3.16     NO                    NO
 L0005302         0   0.15232E-03  732411.6 4055472.0    62.2     3.40     4.00
3.16     NO                    NO
 L0005303         0   0.15232E-03  732420.2 4055472.1    62.2     3.40     4.00
3.16     NO                    NO
 L0005304         0   0.15232E-03  732428.8 4055472.3    62.1     3.40     4.00
3.16     NO                    NO
 L0005305         0   0.15232E-03  732437.4 4055472.4    62.1     3.40     4.00
3.16     NO                    NO
 L0005306         0   0.15232E-03  732446.0 4055472.6    62.1     3.40     4.00
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3.16 NO NO
L0005307 0 0.15232E-03 732454.6 4055472.7 62.1 3.40 4.00
3.16 NO NO
L0005308 0 0.15232E-03 732463.2 4055472.9 62.1 3.40 4.00
3.16 NO NO
L0005309 0 0.15232E-03 732471.8 4055473.0 62.1 3.40 4.00
3.16 NO NO
L0005310 0 0.15232E-03 732480.4 4055473.2 62.0 3.40 4.00
3.16 NO NO
L0005311 0 0.15232E-03 732489.0 4055473.4 62.0 3.40 4.00
3.16 NO NO
L0005312 0 0.15232E-03 732497.6 4055473.5 62.0 3.40 4.00
3.16 NO NO
L0005313 0 0.15232E-03 732506.2 4055473.7 62.0 3.40 4.00
3.16 NO NO
L0005314 0 0.15232E-03 732514.8 4055473.8 62.0 3.40 4.00
3.16 NO NO
L0005315 0 0.15232E-03 732523.4 4055474.0 62.0 3.40 4.00
3.16 NO NO
L0005316 0 0.15232E-03 732532.0 4055474.1 61.9 3.40 4.00
3.16 NO NO
L0005317 0 0.15232E-03 732540.6 4055474.3 61.9 3.40 4.00
3.16 NO NO
L0005318 0 0.15232E-03 732549.2 4055474.4 61.9 3.40 4.00
3.16 NO NO
L0005319 0 0.15232E-03 732557.8 4055474.6 61.9 3.40 4.00
3.16 NO NO
L0005320 0 0.15232E-03 732566.4 4055474.7 61.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0005321	0	0.15232E-03	732575.0	4055474.9	61.9	3.40	4.00			

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3.16     NO                    NO
 L0005322         0   0.15232E-03  732583.6 4055475.1    61.8     3.40     4.00
3.16     NO                    NO
 L0005323         0   0.15232E-03  732592.2 4055475.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005324         0   0.15232E-03  732600.8 4055475.4    61.8     3.40     4.00
3.16     NO                    NO
 L0005325         0   0.15232E-03  732609.4 4055475.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005326         0   0.15232E-03  732618.0 4055475.7    61.8     3.40     4.00
3.16     NO                    NO
 L0005327         0   0.15232E-03  732626.6 4055475.8    61.8     3.40     4.00
3.16     NO                    NO
 L0005328         0   0.15232E-03  732635.2 4055476.0    61.7     3.40     4.00
3.16     NO                    NO
 L0005329         0   0.15232E-03  732643.8 4055476.1    61.7     3.40     4.00
3.16     NO                    NO
 L0005330         0   0.15232E-03  732652.4 4055476.3    61.7     3.40     4.00
3.16     NO                    NO
 L0005331         0   0.15232E-03  732661.0 4055476.5    61.7     3.40     4.00
3.16     NO                    NO
 L0005332         0   0.15232E-03  732669.6 4055476.6    61.7     3.40     4.00
3.16     NO                    NO
 L0005333         0   0.15232E-03  732678.2 4055476.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005334         0   0.15232E-03  732686.8 4055476.9    61.7     3.40     4.00
3.16     NO                    NO
 L0005335         0   0.15232E-03  732695.4 4055477.1    61.7     3.40     4.00
3.16     NO                    NO
 L0005336         0   0.15232E-03  732704.0 4055477.2    61.6     3.40     4.00
3.16     NO                    NO
 L0005337         0   0.15232E-03  732712.6 4055477.4    61.6     3.40     4.00
3.16     NO                    NO
 L0005338         0   0.15232E-03  732721.2 4055477.5    61.6     3.40     4.00
3.16     NO                    NO
 L0005339         0   0.15232E-03  732729.8 4055477.7    61.6     3.40     4.00
3.16     NO                    NO
 L0005340         0   0.15232E-03  732738.4 4055477.8    61.6     3.40     4.00
3.16     NO                    NO
 L0005341         0   0.15232E-03  732747.0 4055478.0    61.6     3.40     4.00
3.16     NO                    NO
 L0005342         0   0.15232E-03  732755.6 4055478.2    61.5     3.40     4.00
3.16     NO                    NO
 L0005343         0   0.15232E-03  732764.2 4055478.3    61.5     3.40     4.00
3.16     NO                    NO
 L0005344         0   0.15232E-03  732772.8 4055478.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005345         0   0.15232E-03  732781.4 4055478.6    61.5     3.40     4.00
3.16     NO                    NO
 L0005346         0   0.15232E-03  732790.0 4055478.8    61.5     3.40     4.00
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3.16 NO NO
L0005347 0 0.15232E-03 732798.6 4055478.9 61.5 3.40 4.00
3.16 NO NO
L0005348 0 0.15232E-03 732807.1 4055479.1 61.5 3.40 4.00
3.16 NO NO
L0005349 0 0.15232E-03 732815.7 4055479.2 61.5 3.40 4.00
3.16 NO NO
L0005350 0 0.15232E-03 732824.3 4055479.4 61.5 3.40 4.00
3.16 NO NO
L0005351 0 0.15232E-03 732832.9 4055479.5 61.4 3.40 4.00
3.16 NO NO
L0005352 0 0.15232E-03 732841.5 4055479.7 61.4 3.40 4.00
3.16 NO NO
L0005353 0 0.15232E-03 732850.1 4055479.9 61.4 3.40 4.00
3.16 NO NO
L0005354 0 0.15232E-03 732858.7 4055480.0 61.4 3.40 4.00
3.16 NO NO
L0005355 0 0.15232E-03 732867.3 4055480.2 61.4 3.40 4.00
3.16 NO NO
L0005356 0 0.15232E-03 732875.9 4055480.3 61.4 3.40 4.00
3.16 NO NO
L0005357 0 0.15232E-03 732884.5 4055480.5 61.4 3.40 4.00
3.16 NO NO
L0005358 0 0.15232E-03 732893.1 4055480.6 61.4 3.40 4.00
3.16 NO NO
L0005359 0 0.15232E-03 732901.7 4055480.8 61.3 3.40 4.00
3.16 NO NO
L0005360 0 0.15232E-03 732910.3 4055480.9 61.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005361	0	0.15232E-03	732918.9	4055481.1	61.3	3.40	4.00			

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3.16     NO                    NO
 L0005362         0   0.15232E-03  732927.5 4055481.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005363         0   0.15232E-03  732936.1 4055481.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005364         0   0.15232E-03  732944.7 4055481.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005365         0   0.15232E-03  732953.3 4055481.7    61.3     3.40     4.00
3.16     NO                    NO
 L0005366         0   0.15232E-03  732961.9 4055481.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005367         0   0.15232E-03  732970.5 4055482.0    61.2     3.40     4.00
3.16     NO                    NO
 L0005368         0   0.15232E-03  732979.1 4055482.2    61.2     3.40     4.00
3.16     NO                    NO
 L0005369         0   0.15232E-03  732987.7 4055482.3    61.2     3.40     4.00
3.16     NO                    NO
 L0005370         0   0.15232E-03  732996.3 4055482.5    61.2     3.40     4.00
3.16     NO                    NO
 L0005371         0   0.15232E-03  733004.9 4055482.6    61.2     3.40     4.00
3.16     NO                    NO
 L0005372         0   0.15232E-03  733013.5 4055482.8    61.2     3.40     4.00
3.16     NO                    NO
 L0005373         0   0.15232E-03  733022.1 4055483.0    61.2     3.40     4.00
3.16     NO                    NO
 L0005374         0   0.15232E-03  733030.7 4055483.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005375         0   0.15232E-03  733039.3 4055483.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005376         0   0.15232E-03  733047.9 4055483.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005377         0   0.15232E-03  733056.5 4055483.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005378         0   0.15232E-03  733065.1 4055483.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005379         0   0.15232E-03  733073.7 4055483.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005380         0   0.15232E-03  733082.3 4055484.0    61.0     3.40     4.00
3.16     NO                    NO
 L0005381         0   0.15232E-03  733090.9 4055484.2    61.0     3.40     4.00
3.16     NO                    NO
 L0005382         0   0.15232E-03  733099.5 4055484.4    61.0     3.40     4.00
3.16     NO                    NO
 L0005383         0   0.15232E-03  733108.1 4055484.5    61.0     3.40     4.00
3.16     NO                    NO
 L0005384         0   0.15232E-03  733116.7 4055484.7    61.0     3.40     4.00
3.16     NO                    NO
 L0005385         0   0.15232E-03  733125.3 4055484.8    60.9     3.40     4.00
3.16     NO                    NO
 L0005386         0   0.15232E-03  733133.9 4055485.0    60.9     3.40     4.00
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3.16     NO                     NO
 L0005387         0   0.15232E-03  733142.5 4055485.1    60.9     3.40     4.00
3.16     NO                     NO
 L0005388         0   0.15232E-03  733151.1 4055485.3    60.9     3.40     4.00
3.16     NO                     NO
 L0005389         0   0.15232E-03  733159.7 4055485.4    60.9     3.40     4.00
3.16     NO                     NO
 L0005390         0   0.15232E-03  733168.3 4055485.6    60.9     3.40     4.00
3.16     NO                     NO
 L0005391         0   0.15232E-03  733176.9 4055485.7    60.9     3.40     4.00
3.16     NO                     NO
 L0005392         0   0.15232E-03  733185.5 4055485.9    60.9     3.40     4.00
3.16     NO                     NO
 L0005393         0   0.15232E-03  733194.1 4055486.1    60.9     3.40     4.00
3.16     NO                     NO
 L0005394         0   0.15232E-03  733202.7 4055486.2    60.8     3.40     4.00
3.16     NO                     NO
 L0005395         0   0.15232E-03  733211.3 4055486.4    60.8     3.40     4.00
3.16     NO                     NO
 L0005396         0   0.15232E-03  733219.9 4055486.5    60.8     3.40     4.00
3.16     NO                     NO
 L0005397         0   0.15232E-03  733228.5 4055487.1    60.8     3.40     4.00
3.16     NO                     NO
 L0005398         0   0.15232E-03  733237.0 4055488.0    60.8     3.40     4.00
3.16     NO                     NO
 L0005399         0   0.15232E-03  733245.6 4055488.8    60.8     3.40     4.00
3.16     NO                     NO
 L0005400         0   0.15232E-03  733254.1 4055489.7    60.7     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0005401	0	0.15232E-03	733262.7	4055490.6	60.7	3.40	4.00			

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3.16     NO                    NO
 L0005402         0   0.15232E-03  733271.2 4055491.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005403         0   0.15232E-03  733279.8 4055492.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005404         0   0.15232E-03  733288.4 4055493.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005405         0   0.15232E-03  733296.9 4055494.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005406         0   0.15232E-03  733305.5 4055494.8    60.6     3.40     4.00
3.16     NO                    NO
 L0005407         0   0.15232E-03  733309.3 4055499.8    60.6     3.40     4.00
3.16     NO                    NO
 L0005408         0   0.15232E-03  733308.9 4055508.4    60.6     3.40     4.00
3.16     NO                    NO
 L0005409         0   0.15232E-03  733308.5 4055517.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005410         0   0.15232E-03  733308.1 4055525.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005411         0   0.15232E-03  733307.7 4055534.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005412         0   0.15232E-03  733307.2 4055542.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005413         0   0.15232E-03  733306.8 4055551.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005414         0   0.15232E-03  733306.4 4055559.9    60.7     3.40     4.00
3.16     NO                    NO
 L0005415         0   0.15232E-03  733306.0 4055568.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005416         0   0.15232E-03  733305.6 4055577.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005417         0   0.15232E-03  733305.2 4055585.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005418         0   0.15232E-03  733304.8 4055594.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005419         0   0.15232E-03  733304.4 4055602.9    60.7     3.40     4.00
3.16     NO                    NO
 L0005420         0   0.15232E-03  733304.0 4055611.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005421         0   0.15232E-03  733303.6 4055620.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005422         0   0.15232E-03  733303.2 4055628.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005423         0   0.15232E-03  733302.8 4055637.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005424         0   0.15232E-03  733302.4 4055645.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005425         0   0.15232E-03  733302.0 4055654.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005426         0   0.15232E-03  733301.6 4055663.0    60.7     3.40     4.00
```

3.16 NO NO
L0005427 0 0.15232E-03 733301.2 4055671.6 60.7 3.40 4.00
3.16 NO NO
L0005428 0 0.15232E-03 733300.8 4055680.2 60.7 3.40 4.00
3.16 NO NO
L0005429 0 0.15232E-03 733300.3 4055688.8 60.7 3.40 4.00
3.16 NO NO
L0005430 0 0.15232E-03 733299.9 4055697.4 60.7 3.40 4.00
3.16 NO NO
L0005431 0 0.15232E-03 733299.5 4055706.0 60.7 3.40 4.00
3.16 NO NO
L0005432 0 0.15232E-03 733299.1 4055714.6 60.7 3.40 4.00
3.16 NO NO
L0005433 0 0.15232E-03 733298.7 4055723.1 60.6 3.40 4.00
3.16 NO NO
L0005434 0 0.15232E-03 733298.3 4055731.7 60.6 3.40 4.00
3.16 NO NO
L0005435 0 0.15232E-03 733297.9 4055740.3 60.6 3.40 4.00
3.16 NO NO
L0005436 0 0.15232E-03 733297.5 4055748.9 60.7 3.40 4.00
3.16 NO NO
L0005437 0 0.15232E-03 733297.1 4055757.5 60.7 3.40 4.00
3.16 NO NO
L0005438 0 0.15232E-03 733296.7 4055766.1 60.7 3.40 4.00
3.16 NO NO
L0005439 0 0.15232E-03 733296.3 4055774.7 60.7 3.40 4.00
3.16 NO NO
L0005440 0 0.15232E-03 733295.9 4055783.3 60.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005441	0	0.15232E-03	733295.5	4055791.9	60.7	3.40	4.00			

```
3.16     NO                    NO
 L0005442         0   0.15232E-03  733295.1 4055800.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005443         0   0.15232E-03  733294.7 4055809.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005444         0   0.15232E-03  733294.3 4055817.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005445         0   0.15232E-03  733293.9 4055826.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005446         0   0.15232E-03  733293.4 4055834.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005447         0   0.15232E-03  733293.0 4055843.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005448         0   0.15232E-03  733292.6 4055852.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005449         0   0.15232E-03  733292.2 4055860.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005450         0   0.15232E-03  733291.8 4055869.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005451         0   0.15232E-03  733291.4 4055877.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005452         0   0.15232E-03  733291.0 4055886.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005453         0   0.15232E-03  733290.6 4055895.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005454         0   0.15232E-03  733290.2 4055903.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005455         0   0.15232E-03  733289.8 4055912.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005456         0   0.15232E-03  733289.4 4055920.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005457         0   0.15232E-03  733289.0 4055929.3    60.6     3.40     4.00
3.16     NO                    NO
 L0005458         0   0.15232E-03  733288.6 4055937.9    60.6     3.40     4.00
3.16     NO                    NO
 L0005459         0   0.15232E-03  733288.2 4055946.5    60.6     3.40     4.00
3.16     NO                    NO
 L0005460         0   0.15232E-03  733287.8 4055955.1    60.6     3.40     4.00
3.16     NO                    NO
 L0005461         0   0.15232E-03  733287.4 4055963.7    60.6     3.40     4.00
3.16     NO                    NO
 L0005462         0   0.15232E-03  733287.0 4055972.3    60.6     3.40     4.00
3.16     NO                    NO
 L0005463         0   0.15232E-03  733286.5 4055980.9    60.6     3.40     4.00
3.16     NO                    NO
 L0005464         0   0.15232E-03  733286.1 4055989.4    60.6     3.40     4.00
3.16     NO                    NO
 L0005465         0   0.15232E-03  733285.7 4055998.0    60.6     3.40     4.00
3.16     NO                    NO
 L0005466         0   0.15232E-03  733285.3 4056006.6    60.6     3.40     4.00
```

3.16 NO NO
L0005467 0 0.15232E-03 733284.9 4056015.2 60.6 3.40 4.00
3.16 NO NO
L0005468 0 0.15232E-03 733284.5 4056023.8 60.6 3.40 4.00
3.16 NO NO
L0005469 0 0.15232E-03 733284.1 4056032.4 60.6 3.40 4.00
3.16 NO NO
L0005470 0 0.15232E-03 733283.7 4056041.0 60.6 3.40 4.00
3.16 NO NO
L0005471 0 0.15232E-03 733283.3 4056049.6 60.6 3.40 4.00
3.16 NO NO
L0005472 0 0.15232E-03 733282.9 4056058.2 60.6 3.40 4.00
3.16 NO NO
L0005473 0 0.15232E-03 733282.5 4056066.8 60.6 3.40 4.00
3.16 NO NO
L0005474 0 0.15232E-03 733282.1 4056075.4 60.6 3.40 4.00
3.16 NO NO
L0005475 0 0.15232E-03 733281.7 4056083.9 60.6 3.40 4.00
3.16 NO NO
L0005476 0 0.15232E-03 733281.3 4056092.5 60.6 3.40 4.00
3.16 NO NO
L0005477 0 0.15232E-03 733280.9 4056101.1 60.6 3.40 4.00
3.16 NO NO
L0005478 0 0.15232E-03 733280.5 4056109.7 60.6 3.40 4.00
3.16 NO NO
L0005479 0 0.15232E-03 733280.1 4056118.3 60.7 3.40 4.00
3.16 NO NO
L0005480 0 0.15232E-03 733279.6 4056126.9 60.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005481	0	0.15232E-03	733279.2	4056135.5	60.7	3.40	4.00			

```
3.16     NO                    NO
 L0005482         0   0.15232E-03  733278.8 4056144.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005483         0   0.15232E-03  733278.4 4056152.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005484         0   0.15232E-03  733278.0 4056161.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005485         0   0.15232E-03  733277.6 4056169.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005486         0   0.15232E-03  733277.2 4056178.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005487         0   0.15232E-03  733276.8 4056187.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005488         0   0.15232E-03  733276.4 4056195.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005489         0   0.15232E-03  733276.0 4056204.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005490         0   0.15232E-03  733275.6 4056212.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005491         0   0.15232E-03  733275.2 4056221.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005492         0   0.15232E-03  733274.8 4056230.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005493         0   0.15232E-03  733274.4 4056238.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005494         0   0.15232E-03  733274.0 4056247.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005495         0   0.15232E-03  733273.6 4056255.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005496         0   0.15232E-03  733273.2 4056264.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005497         0   0.15232E-03  733272.7 4056272.9    60.7     3.40     4.00
3.16     NO                    NO
 L0005498         0   0.15232E-03  733272.3 4056281.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005499         0   0.15232E-03  733271.9 4056290.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005500         0   0.15232E-03  733271.5 4056298.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005501         0   0.15232E-03  733271.1 4056307.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005502         0   0.15232E-03  733270.7 4056315.9    60.7     3.40     4.00
3.16     NO                    NO
 L0005503         0   0.15232E-03  733270.3 4056324.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005504         0   0.15232E-03  733269.9 4056333.1    60.8     3.40     4.00
3.16     NO                    NO
 L0005505         0   0.15232E-03  733269.5 4056341.7    60.8     3.40     4.00
3.16     NO                    NO
 L0005506         0   0.15232E-03  733269.1 4056350.2    60.8     3.40     4.00
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3.16     NO                     NO
 L0005507         0   0.15232E-03  733268.7 4056358.8    60.8     3.40     4.00
3.16     NO                     NO
 L0005508         0   0.15232E-03  733268.3 4056367.4    60.8     3.40     4.00
3.16     NO                     NO
 L0005509         0   0.15232E-03  733267.9 4056376.0    60.8     3.40     4.00
3.16     NO                     NO
 L0005510         0   0.15232E-03  733267.5 4056384.6    60.8     3.40     4.00
3.16     NO                     NO
 L0005511         0   0.15232E-03  733267.1 4056393.2    60.8     3.40     4.00
3.16     NO                     NO
 L0005512         0   0.15232E-03  733266.7 4056401.8    60.8     3.40     4.00
3.16     NO                     NO
 L0005513         0   0.15232E-03  733266.3 4056410.4    60.8     3.40     4.00
3.16     NO                     NO
 L0005514         0   0.15232E-03  733265.8 4056419.0    60.8     3.40     4.00
3.16     NO                     NO
 L0005515         0   0.15232E-03  733265.4 4056427.6    60.8     3.40     4.00
3.16     NO                     NO
 L0005516         0   0.15232E-03  733265.0 4056436.2    60.8     3.40     4.00
3.16     NO                     NO
 L0005517         0   0.15232E-03  733264.6 4056444.7    60.8     3.40     4.00
3.16     NO                     NO
 L0005518         0   0.15232E-03  733264.2 4056453.3    60.8     3.40     4.00
3.16     NO                     NO
 L0005519         0   0.15232E-03  733263.8 4056461.9    60.8     3.40     4.00
3.16     NO                     NO
 L0005520         0   0.15232E-03  733263.4 4056470.5    60.8     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

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               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005521         0   0.15232E-03  733263.0 4056479.1    60.8     3.40     4.00
```

3.16 NO NO
L0005522 0 0.15232E-03 733262.6 4056487.7 60.8 3.40 4.00
3.16 NO NO
L0005523 0 0.15232E-03 733262.2 4056496.3 60.8 3.40 4.00
3.16 NO NO
L0005524 0 0.15232E-03 733261.8 4056504.9 60.8 3.40 4.00
3.16 NO NO
L0005525 0 0.15232E-03 733261.4 4056513.5 60.8 3.40 4.00
3.16 NO NO
L0005526 0 0.15232E-03 733261.0 4056522.1 60.8 3.40 4.00
3.16 NO NO
L0005527 0 0.15232E-03 733260.6 4056530.6 60.8 3.40 4.00
3.16 NO NO
L0005528 0 0.15232E-03 733260.2 4056539.2 60.8 3.40 4.00
3.16 NO NO
L0005529 0 0.15232E-03 733259.8 4056547.8 60.8 3.40 4.00
3.16 NO NO
L0005530 0 0.15232E-03 733259.4 4056556.4 60.8 3.40 4.00
3.16 NO NO
L0005531 0 0.15232E-03 733258.9 4056565.0 60.8 3.40 4.00
3.16 NO NO
L0005532 0 0.15232E-03 733258.5 4056573.6 60.8 3.40 4.00
3.16 NO NO
L0005533 0 0.15232E-03 733258.1 4056582.2 60.8 3.40 4.00
3.16 NO NO
L0005534 0 0.15232E-03 733257.7 4056590.8 60.8 3.40 4.00
3.16 NO NO
L0005535 0 0.15232E-03 733253.8 4056595.5 60.8 3.40 4.00
3.16 NO NO
L0005536 0 0.15232E-03 733245.3 4056595.0 60.8 3.40 4.00
3.16 NO NO
L0005537 0 0.15232E-03 733236.7 4056594.6 60.8 3.40 4.00
3.16 NO NO
L0005538 0 0.15232E-03 733228.1 4056594.1 60.8 3.40 4.00
3.16 NO NO
L0005539 0 0.15232E-03 733219.5 4056593.6 60.9 3.40 4.00
3.16 NO NO
L0005540 0 0.15232E-03 733210.9 4056593.1 60.9 3.40 4.00
3.16 NO NO
L0005541 0 0.15232E-03 733202.3 4056592.6 60.9 3.40 4.00
3.16 NO NO
L0005542 0 0.15232E-03 733193.7 4056592.2 60.9 3.40 4.00
3.16 NO NO
L0005543 0 0.15232E-03 733185.1 4056591.7 60.9 3.40 4.00
3.16 NO NO
L0005544 0 0.15232E-03 733176.6 4056591.2 61.0 3.40 4.00
3.16 NO NO
L0005545 0 0.15232E-03 733168.0 4056590.7 61.0 3.40 4.00
3.16 NO NO
L0005546 0 0.15232E-03 733159.4 4056590.3 61.0 3.40 4.00

3.16   NO   NO
 L0005547   0   0.15232E-03 733150.8 4056589.8   61.1   3.40   4.00
3.16   NO   NO
 L0005548   0   0.15232E-03 733142.2 4056589.3   61.1   3.40   4.00
3.16   NO   NO
 L0005549   0   0.15232E-03 733133.6 4056588.8   61.1   3.40   4.00
3.16   NO   NO
 L0005550   0   0.15232E-03 733125.0 4056588.3   61.1   3.40   4.00
3.16   NO   NO
 L0005551   0   0.15232E-03 733116.5 4056587.9   61.1   3.40   4.00
3.16   NO   NO
 L0005552   0   0.15232E-03 733107.9 4056587.4   61.1   3.40   4.00
3.16   NO   NO
 L0005553   0   0.15232E-03 733101.6 4056584.8   61.2   3.40   4.00
3.16   NO   NO
 L0005554   0   0.15232E-03 733101.9 4056576.2   61.2   3.40   4.00
3.16   NO   NO
 L0005555   0   0.15232E-03 733102.1 4056567.6   61.2   3.40   4.00
3.16   NO   NO
 L0005556   0   0.15232E-03 733102.4 4056559.0   61.2   3.40   4.00
3.16   NO   NO
 L0005557   0   0.15232E-03 733102.7 4056550.4   61.1   3.40   4.00
3.16   NO   NO
 L0005558   0   0.15232E-03 733102.9 4056541.8   61.1   3.40   4.00
3.16   NO   NO
 L0005559   0   0.15232E-03 733103.2 4056533.2   61.1   3.40   4.00
3.16   NO   NO
 L0005560   0   0.15232E-03 733103.5 4056524.6   61.1   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0005561   0   0.15232E-03 733103.7 4056516.0   61.1   3.40   4.00

```
3.16     NO                    NO
 L0005562         0   0.15232E-03  733104.0 4056507.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005563         0   0.15232E-03  733104.3 4056498.8    61.1     3.40     4.00
3.16     NO                    NO
 L0005564         0   0.15232E-03  733104.6 4056490.2    61.1     3.40     4.00
3.16     NO                    NO
 L0005565         0   0.15232E-03  733104.8 4056481.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005566         0   0.15232E-03  733105.1 4056473.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005567         0   0.15232E-03  733105.4 4056464.5    61.1     3.40     4.00
3.16     NO                    NO
 L0005568         0   0.15232E-03  733105.6 4056455.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005569         0   0.15232E-03  733105.9 4056447.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005570         0   0.15232E-03  733106.2 4056438.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005571         0   0.15232E-03  733106.4 4056430.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005572         0   0.15232E-03  733106.7 4056421.5    61.1     3.40     4.00
3.16     NO                    NO
 L0005573         0   0.15232E-03  733107.0 4056412.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005574         0   0.15232E-03  733107.2 4056404.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005575         0   0.15232E-03  733107.5 4056395.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005576         0   0.15232E-03  733107.8 4056387.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005577         0   0.15232E-03  733108.0 4056378.5    61.1     3.40     4.00
3.16     NO                    NO
 L0005578         0   0.15232E-03  733108.3 4056369.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005579         0   0.15232E-03  733108.6 4056361.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005580         0   0.15232E-03  733108.8 4056352.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005581         0   0.15232E-03  733109.1 4056344.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005582         0   0.15232E-03  733109.4 4056335.5    61.1     3.40     4.00
3.16     NO                    NO
 L0005583         0   0.15232E-03  733109.7 4056326.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005584         0   0.15232E-03  733109.9 4056318.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005585         0   0.15232E-03  733110.2 4056309.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005586         0   0.15232E-03  733110.5 4056301.1    61.1     3.40     4.00
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3.16     NO                     NO
 L0005587         0   0.15232E-03  733110.7 4056292.5    61.1     3.40     4.00
3.16     NO                     NO
 L0005588         0   0.15232E-03  733111.0 4056283.9    61.1     3.40     4.00
3.16     NO                     NO
 L0005589         0   0.15232E-03  733111.3 4056275.3    61.1     3.40     4.00
3.16     NO                     NO
 L0005590         0   0.15232E-03  733111.5 4056266.7    61.1     3.40     4.00
3.16     NO                     NO
 L0005591         0   0.15232E-03  733111.8 4056258.2    61.1     3.40     4.00
3.16     NO                     NO
 L0005592         0   0.15232E-03  733112.1 4056249.6    61.1     3.40     4.00
3.16     NO                     NO
 L0005593         0   0.15232E-03  733112.3 4056241.0    61.1     3.40     4.00
3.16     NO                     NO
 L0005594         0   0.15232E-03  733112.6 4056232.4    61.1     3.40     4.00
3.16     NO                     NO
 L0005595         0   0.15232E-03  733112.9 4056223.8    61.1     3.40     4.00
3.16     NO                     NO
 L0005596         0   0.15232E-03  733113.1 4056215.2    61.1     3.40     4.00
3.16     NO                     NO
 L0005597         0   0.15232E-03  733113.4 4056206.6    61.1     3.40     4.00
3.16     NO                     NO
 L0005598         0   0.15232E-03  733113.7 4056198.0    61.1     3.40     4.00
3.16     NO                     NO
 L0005599         0   0.15232E-03  733114.0 4056189.4    61.1     3.40     4.00
3.16     NO                     NO
 L0005600         0   0.15232E-03  733114.2 4056180.8    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 142
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005601         0   0.15232E-03  733114.5 4056172.2    61.1     3.40     4.00
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3.16     NO                    NO
 L0005602         0   0.15232E-03  733114.8 4056163.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005603         0   0.15232E-03  733115.0 4056155.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005604         0   0.15232E-03  733115.3 4056146.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005605         0   0.15232E-03  733115.6 4056137.8    61.1     3.40     4.00
3.16     NO                    NO
 L0005606         0   0.15232E-03  733115.8 4056129.2    61.1     3.40     4.00
3.16     NO                    NO
 L0005607         0   0.15232E-03  733116.1 4056120.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005608         0   0.15232E-03  733116.4 4056112.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005609         0   0.15232E-03  733116.6 4056103.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005610         0   0.15232E-03  733116.9 4056094.8    61.1     3.40     4.00
3.16     NO                    NO
 L0005611         0   0.15232E-03  733117.2 4056086.2    61.1     3.40     4.00
3.16     NO                    NO
 L0005612         0   0.15232E-03  733117.4 4056077.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005613         0   0.15232E-03  733117.7 4056069.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005614         0   0.15232E-03  733118.0 4056060.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005615         0   0.15232E-03  733118.3 4056051.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005616         0   0.15232E-03  733118.5 4056043.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005617         0   0.15232E-03  733118.8 4056034.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005618         0   0.15232E-03  733112.4 4056032.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005619         0   0.15232E-03  733103.8 4056032.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005620         0   0.15232E-03  733095.2 4056031.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005621         0   0.15232E-03  733086.7 4056031.7    61.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0005623         0   0.15232E-03  733069.5 4056031.3    61.2     3.40     4.00
3.16     NO                    NO
 L0005624         0   0.15232E-03  733060.9 4056031.1    61.2     3.40     4.00
3.16     NO                    NO
 L0005625         0   0.15232E-03  733052.3 4056030.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005626         0   0.15232E-03  733043.7 4056030.7    61.3     3.40     4.00
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3.16     NO                     NO
 L0005627         0   0.15232E-03  733035.1 4056030.5    61.3     3.40     4.00
3.16     NO                     NO
 L0005628         0   0.15232E-03  733026.5 4056030.3    61.3     3.40     4.00
3.16     NO                     NO
 L0005629         0   0.15232E-03  733017.9 4056030.1    61.3     3.40     4.00
3.16     NO                     NO
 L0005630         0   0.15232E-03  733009.3 4056029.9    61.3     3.40     4.00
3.16     NO                     NO
 L0005631         0   0.15232E-03  733000.7 4056029.7    61.4     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0005633         0   0.15232E-03  732983.5 4056029.3    61.4     3.40     4.00
3.16     NO                     NO
 L0005634         0   0.15232E-03  732974.9 4056029.0    61.4     3.40     4.00
3.16     NO                     NO
 L0005635         0   0.15232E-03  732966.3 4056028.8    61.4     3.40     4.00
3.16     NO                     NO
 L0005636         0   0.15232E-03  732957.7 4056028.6    61.5     3.40     4.00
3.16     NO                     NO
 L0005637         0   0.15232E-03  732949.1 4056028.4    61.5     3.40     4.00
3.16     NO                     NO
 L0005638         0   0.15232E-03  732940.5 4056028.2    61.5     3.40     4.00
3.16     NO                     NO
 L0005639         0   0.15232E-03  732931.9 4056028.0    61.5     3.40     4.00
3.16     NO                     NO
 L0005640         0   0.15232E-03  732923.3 4056027.8    61.6     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 143
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005641         0   0.15232E-03  732914.7 4056027.6    61.6     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0005645         0   0.15232E-03  732880.3 4056026.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005646         0   0.15232E-03  732871.7 4056026.6    61.7     3.40     4.00
3.16     NO                    NO
 L0005647         0   0.15232E-03  732863.1 4056026.4    61.7     3.40     4.00
3.16     NO                    NO
 L0005648         0   0.15232E-03  732854.5 4056026.2    61.7     3.40     4.00
3.16     NO                    NO
 L0005649         0   0.15232E-03  732845.9 4056026.0    61.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0005651         0   0.15232E-03  732828.7 4056025.6    61.8     3.40     4.00
3.16     NO                    NO
 L0005652         0   0.15232E-03  732820.1 4056025.4    61.8     3.40     4.00
3.16     NO                    NO
 L0005653         0   0.15232E-03  732811.5 4056025.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005654         0   0.15232E-03  732802.9 4056025.0    61.8     3.40     4.00
3.16     NO                    NO
 L0005655         0   0.15232E-03  732794.3 4056024.8    61.8     3.40     4.00
3.16     NO                    NO
 L0005656         0   0.15232E-03  732785.7 4056024.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005657         0   0.15232E-03  732777.1 4056024.3    61.9     3.40     4.00
3.16     NO                    NO
 L0005658         0   0.15232E-03  732768.5 4056024.1    61.9     3.40     4.00
3.16     NO                    NO
 L0005659         0   0.15232E-03  732759.9 4056023.9    61.9     3.40     4.00
3.16     NO                    NO
 L0005660         0   0.15232E-03  732751.3 4056023.7    61.9     3.40     4.00
3.16     NO                    NO
 L0005661         0   0.15232E-03  732742.7 4056023.5    61.9     3.40     4.00
3.16     NO                    NO
 L0005662         0   0.15232E-03  732734.2 4056023.3    61.9     3.40     4.00
3.16     NO                    NO
 L0005663         0   0.15232E-03  732725.6 4056023.1    62.0     3.40     4.00
3.16     NO                    NO
 L0005664         0   0.15232E-03  732717.0 4056022.9    62.0     3.40     4.00
3.16     NO                    NO
 L0005665         0   0.15232E-03  732708.4 4056022.7    62.0     3.40     4.00
3.16     NO                    NO
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3.16   NO   NO
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3.16   NO   NO
 L0005668   0   0.15232E-03 732682.6 4056022.1   62.0   3.40   4.00
3.16   NO   NO
 L0005669   0   0.15232E-03 732674.0 4056021.9   62.1   3.40   4.00
3.16   NO   NO
 L0005670   0   0.15232E-03 732665.4 4056021.7   62.1   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0005673   0   0.15232E-03 732639.6 4056021.1   62.1   3.40   4.00
3.16   NO   NO
 L0005674   0   0.15232E-03 732631.0 4056020.9   62.2   3.40   4.00
3.16   NO   NO
 L0005675   0   0.15232E-03 732622.4 4056020.7   62.2   3.40   4.00
3.16   NO   NO
 L0005676   0   0.15232E-03 732613.8 4056020.5   62.2   3.40   4.00
3.16   NO   NO
 L0005677   0   0.15232E-03 732605.2 4056020.2   62.2   3.40   4.00
3.16   NO   NO
 L0005678   0   0.15232E-03 732596.6 4056020.0   62.2   3.40   4.00
3.16   NO   NO
 L0005679   0   0.15232E-03 732588.0 4056019.8   62.2   3.40   4.00
3.16   NO   NO
 L0005680   0   0.15232E-03 732579.4 4056019.6   62.2   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0005681   0   0.15232E-03 732570.8 4056019.4   62.2   3.40   4.00

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3.16     NO                    NO
 L0005682         0   0.15232E-03  732562.2 4056019.2    62.3     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0005685         0   0.15232E-03  732536.4 4056018.6    62.3     3.40     4.00
3.16     NO                    NO
 L0005686         0   0.15232E-03  732527.8 4056018.4    62.3     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0005688         0   0.15232E-03  732510.6 4056018.0    62.3     3.40     4.00
3.16     NO                    NO
 L0005689         0   0.15232E-03  732502.0 4056017.8    62.4     3.40     4.00
3.16     NO                    NO
 L0005690         0   0.15232E-03  732493.4 4056017.6    62.4     3.40     4.00
3.16     NO                    NO
 L0005691         0   0.15232E-03  732484.8 4056017.4    62.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0005696         0   0.15232E-03  732441.8 4056016.4    62.5     3.40     4.00
3.16     NO                    NO
 L0005697         0   0.15232E-03  732433.2 4056016.2    62.5     3.40     4.00
3.16     NO                    NO
 L0005698         0   0.15232E-03  732424.6 4056015.9    62.5     3.40     4.00
3.16     NO                    NO
 L0005699         0   0.15232E-03  732416.0 4056015.7    62.5     3.40     4.00
3.16     NO                    NO
 L0005700         0   0.15232E-03  732407.4 4056015.5    62.6     3.40     4.00
3.16     NO                    NO
 L0005701         0   0.15232E-03  732398.8 4056015.3    62.6     3.40     4.00
3.16     NO                    NO
 L0005702         0   0.15232E-03  732391.0 4056014.4    62.6     3.40     4.00
3.16     NO                    NO
 L0005703         0   0.15232E-03  732390.8 4056005.8    62.6     3.40     4.00
3.16     NO                    NO
 L0005704         0   0.15232E-03  732390.6 4055997.2    62.6     3.40     4.00
3.16     NO                    NO
 L0005705         0   0.15232E-03  732390.4 4055988.6    62.6     3.40     4.00
3.16     NO                    NO
 L0005706         0   0.15232E-03  732390.3 4055980.0    62.6     3.40     4.00
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0005710   0   0.15232E-03 732389.6 4055945.6   62.5   3.40   4.00
3.16   NO   NO
 L0005711   0   0.15232E-03 732389.4 4055937.0   62.5   3.40   4.00
3.16   NO   NO
 L0005712   0   0.15232E-03 732389.2 4055928.4   62.5   3.40   4.00
3.16   NO   NO
 L0005713   0   0.15232E-03 732389.0 4055919.8   62.5   3.40   4.00
3.16   NO   NO
 L0005714   0   0.15232E-03 732388.9 4055911.2   62.5   3.40   4.00
3.16   NO   NO
 L0005715   0   0.15232E-03 732388.7 4055902.6   62.5   3.40   4.00
3.16   NO   NO
 L0005716   0   0.15232E-03 732388.5 4055894.0   62.5   3.40   4.00
3.16   NO   NO
 L0005717   0   0.15232E-03 732388.3 4055885.4   62.5   3.40   4.00
3.16   NO   NO
 L0005718   0   0.15232E-03 732388.2 4055876.8   62.5   3.40   4.00
3.16   NO   NO
 L0005719   0   0.15232E-03 732388.0 4055868.2   62.5   3.40   4.00
3.16   NO   NO
 L0005720   0   0.15232E-03 732387.8 4055859.6   62.5   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0005721   0   0.15232E-03 732387.6 4055851.0   62.5   3.40   4.00

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3.16     NO                    NO
 L0005722         0   0.15232E-03  732387.5 4055842.4    62.5     3.40     4.00
3.16     NO                    NO
 L0005723         0   0.15232E-03  732387.3 4055833.8    62.5     3.40     4.00
3.16     NO                    NO
 L0005724         0   0.15232E-03  732387.1 4055825.2    62.5     3.40     4.00
3.16     NO                    NO
 L0005725         0   0.15232E-03  732386.9 4055816.6    62.5     3.40     4.00
3.16     NO                    NO
 L0005726         0   0.15232E-03  732386.8 4055808.0    62.5     3.40     4.00
3.16     NO                    NO
 L0005727         0   0.15232E-03  732386.6 4055799.5    62.5     3.40     4.00
3.16     NO                    NO
 L0005728         0   0.15232E-03  732386.4 4055790.9    62.5     3.40     4.00
3.16     NO                    NO
 L0005729         0   0.15232E-03  732386.2 4055782.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005730         0   0.15232E-03  732386.1 4055773.7    62.4     3.40     4.00
3.16     NO                    NO
 L0005731         0   0.15232E-03  732385.9 4055765.1    62.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0005734         0   0.15232E-03  732385.4 4055739.3    62.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0005737         0   0.15232E-03  732384.8 4055713.5    62.4     3.40     4.00
3.16     NO                    NO
 L0005738         0   0.15232E-03  732384.7 4055704.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005739         0   0.15232E-03  732384.5 4055696.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005740         0   0.15232E-03  732384.3 4055687.7    62.4     3.40     4.00
3.16     NO                    NO
 L0005741         0   0.15232E-03  732384.1 4055679.1    62.4     3.40     4.00
3.16     NO                    NO
 L0005742         0   0.15232E-03  732384.0 4055670.5    62.4     3.40     4.00
3.16     NO                    NO
 L0005743         0   0.15232E-03  732383.8 4055661.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005744         0   0.15232E-03  732383.6 4055653.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005745         0   0.15232E-03  732383.4 4055644.7    62.4     3.40     4.00
3.16     NO                    NO
 L0005746         0   0.15232E-03  732383.3 4055636.1    62.3     3.40     4.00
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3.16 NO NO
L0005747 0 0.15232E-03 732383.1 4055627.5 62.3 3.40 4.00
3.16 NO NO
L0005748 0 0.15232E-03 732382.9 4055618.9 62.3 3.40 4.00
3.16 NO NO
L0005749 0 0.15232E-03 732382.7 4055610.3 62.3 3.40 4.00
3.16 NO NO
L0005750 0 0.15232E-03 732382.6 4055601.7 62.3 3.40 4.00
3.16 NO NO
L0005751 0 0.15232E-03 732382.4 4055593.1 62.3 3.40 4.00
3.16 NO NO
L0005752 0 0.15232E-03 732388.4 4055590.8 62.3 3.40 4.00
3.16 NO NO
L0005753 0 0.15232E-03 732397.0 4055591.0 62.3 3.40 4.00
3.16 NO NO
L0005754 0 0.15232E-03 732405.6 4055591.3 62.2 3.40 4.00
3.16 NO NO
L0005755 0 0.15232E-03 732414.2 4055591.6 62.2 3.40 4.00
3.16 NO NO
L0005756 0 0.15232E-03 732422.8 4055591.9 62.2 3.40 4.00
3.16 NO NO
L0005757 0 0.15232E-03 732431.4 4055592.2 62.2 3.40 4.00
3.16 NO NO
L0005758 0 0.15232E-03 732440.0 4055592.5 62.2 3.40 4.00
3.16 NO NO
L0005759 0 0.15232E-03 732448.5 4055592.8 62.2 3.40 4.00
3.16 NO NO
L0005760 0 0.15232E-03 732457.1 4055593.1 62.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005761	0	0.15232E-03	732465.7	4055593.4	62.2	3.40	4.00			

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3.16     NO                    NO
 L0005762         0   0.15232E-03  732474.3 4055593.7    62.1     3.40     4.00
3.16     NO                    NO
 L0005763         0   0.15232E-03  732482.9 4055593.9    62.1     3.40     4.00
3.16     NO                    NO
 L0005764         0   0.15232E-03  732491.5 4055594.2    62.1     3.40     4.00
3.16     NO                    NO
 L0005765         0   0.15232E-03  732500.1 4055594.5    62.1     3.40     4.00
3.16     NO                    NO
 L0005766         0   0.15232E-03  732508.7 4055594.8    62.1     3.40     4.00
3.16     NO                    NO
 L0005767         0   0.15232E-03  732517.3 4055595.1    62.1     3.40     4.00
3.16     NO                    NO
 L0005768         0   0.15232E-03  732525.9 4055595.4    62.0     3.40     4.00
3.16     NO                    NO
 L0005769         0   0.15232E-03  732534.5 4055595.7    62.0     3.40     4.00
3.16     NO                    NO
 L0005770         0   0.15232E-03  732543.1 4055596.0    62.0     3.40     4.00
3.16     NO                    NO
 L0005771         0   0.15232E-03  732551.7 4055596.3    62.0     3.40     4.00
3.16     NO                    NO
 L0005772         0   0.15232E-03  732560.3 4055596.6    62.0     3.40     4.00
3.16     NO                    NO
 L0005773         0   0.15232E-03  732568.9 4055596.8    62.0     3.40     4.00
3.16     NO                    NO
 L0005774         0   0.15232E-03  732577.5 4055597.1    61.9     3.40     4.00
3.16     NO                    NO
 L0005775         0   0.15232E-03  732586.1 4055597.4    61.9     3.40     4.00
3.16     NO                    NO
 L0005776         0   0.15232E-03  732594.7 4055597.7    61.9     3.40     4.00
3.16     NO                    NO
 L0005777         0   0.15232E-03  732603.3 4055598.0    61.9     3.40     4.00
3.16     NO                    NO
 L0005778         0   0.15232E-03  732611.9 4055598.3    61.9     3.40     4.00
3.16     NO                    NO
 L0005779         0   0.15232E-03  732620.4 4055598.6    61.9     3.40     4.00
3.16     NO                    NO
 L0005780         0   0.15232E-03  732629.0 4055598.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005781         0   0.15232E-03  732637.6 4055599.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005782         0   0.15232E-03  732646.2 4055599.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005783         0   0.15232E-03  732654.8 4055599.7    61.8     3.40     4.00
3.16     NO                    NO
 L0005784         0   0.15232E-03  732663.4 4055600.0    61.8     3.40     4.00
3.16     NO                    NO
 L0005785         0   0.15232E-03  732672.0 4055600.3    61.8     3.40     4.00
3.16     NO                    NO
 L0005786         0   0.15232E-03  732680.6 4055600.6    61.7     3.40     4.00
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3.16 NO NO
L0005787 0 0.15232E-03 732689.2 4055600.9 61.7 3.40 4.00
3.16 NO NO
L0005788 0 0.15232E-03 732697.8 4055601.2 61.7 3.40 4.00
3.16 NO NO
L0005789 0 0.15232E-03 732706.4 4055601.5 61.7 3.40 4.00
3.16 NO NO
L0005790 0 0.15232E-03 732715.0 4055601.8 61.7 3.40 4.00
3.16 NO NO
L0005791 0 0.15232E-03 732723.6 4055602.1 61.7 3.40 4.00
3.16 NO NO
L0005792 0 0.15232E-03 732732.2 4055602.3 61.7 3.40 4.00
3.16 NO NO
L0005793 0 0.15232E-03 732740.8 4055602.6 61.7 3.40 4.00
3.16 NO NO
L0005794 0 0.15232E-03 732749.4 4055602.9 61.6 3.40 4.00
3.16 NO NO
L0005795 0 0.15232E-03 732758.0 4055603.2 61.6 3.40 4.00
3.16 NO NO
L0005796 0 0.15232E-03 732766.6 4055603.5 61.6 3.40 4.00
3.16 NO NO
L0005797 0 0.15232E-03 732775.2 4055603.8 61.6 3.40 4.00
3.16 NO NO
L0005798 0 0.15232E-03 732783.8 4055604.1 61.6 3.40 4.00
3.16 NO NO
L0005799 0 0.15232E-03 732792.4 4055604.4 61.6 3.40 4.00
3.16 NO NO
L0005800 0 0.15232E-03 732800.9 4055604.7 61.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0005801	0	0.15232E-03	732809.5	4055605.0	61.5	3.40	4.00				

```
3.16     NO                    NO
 L0005802         0   0.15232E-03  732818.1 4055605.2    61.5     3.40     4.00
3.16     NO                    NO
 L0005803         0   0.15232E-03  732826.7 4055605.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005804         0   0.15232E-03  732835.3 4055605.8    61.5     3.40     4.00
3.16     NO                    NO
 L0005805         0   0.15232E-03  732843.9 4055606.1    61.5     3.40     4.00
3.16     NO                    NO
 L0005806         0   0.15232E-03  732852.5 4055606.4    61.5     3.40     4.00
3.16     NO                    NO
 L0005807         0   0.15232E-03  732861.1 4055606.7    61.5     3.40     4.00
3.16     NO                    NO
 L0005808         0   0.15232E-03  732869.7 4055607.0    61.5     3.40     4.00
3.16     NO                    NO
 L0005809         0   0.15232E-03  732878.3 4055607.3    61.4     3.40     4.00
3.16     NO                    NO
 L0005810         0   0.15232E-03  732886.9 4055607.6    61.4     3.40     4.00
3.16     NO                    NO
 L0005811         0   0.15232E-03  732895.5 4055607.9    61.4     3.40     4.00
3.16     NO                    NO
 L0005812         0   0.15232E-03  732904.1 4055608.1    61.4     3.40     4.00
3.16     NO                    NO
 L0005813         0   0.15232E-03  732912.7 4055608.4    61.4     3.40     4.00
3.16     NO                    NO
 L0005814         0   0.15232E-03  732921.3 4055608.7    61.4     3.40     4.00
3.16     NO                    NO
 L0005815         0   0.15232E-03  732929.9 4055609.0    61.4     3.40     4.00
3.16     NO                    NO
 L0005816         0   0.15232E-03  732938.5 4055609.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005817         0   0.15232E-03  732947.1 4055609.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005818         0   0.15232E-03  732955.7 4055609.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005819         0   0.15232E-03  732964.3 4055610.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005820         0   0.15232E-03  732972.8 4055610.5    61.3     3.40     4.00
3.16     NO                    NO
 L0005821         0   0.15232E-03  732981.4 4055610.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005822         0   0.15232E-03  732990.0 4055611.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005823         0   0.15232E-03  732998.6 4055611.3    61.2     3.40     4.00
3.16     NO                    NO
 L0005824         0   0.15232E-03  733007.2 4055611.6    61.2     3.40     4.00
3.16     NO                    NO
 L0005825         0   0.15232E-03  733015.8 4055611.9    61.2     3.40     4.00
3.16     NO                    NO
 L0005826         0   0.15232E-03  733024.4 4055612.2    61.2     3.40     4.00
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3.16 NO NO
L0005827 0 0.15232E-03 733033.0 4055612.5 61.2 3.40 4.00
3.16 NO NO
L0005828 0 0.15232E-03 733041.6 4055612.8 61.2 3.40 4.00
3.16 NO NO
L0005829 0 0.15232E-03 733050.2 4055613.1 61.1 3.40 4.00
3.16 NO NO
L0005830 0 0.15232E-03 733058.8 4055613.4 61.1 3.40 4.00
3.16 NO NO
L0005831 0 0.15232E-03 733067.4 4055613.6 61.1 3.40 4.00
3.16 NO NO
L0005832 0 0.15232E-03 733076.0 4055613.9 61.1 3.40 4.00
3.16 NO NO
L0005833 0 0.15232E-03 733084.6 4055614.2 61.1 3.40 4.00
3.16 NO NO
L0005834 0 0.15232E-03 733093.2 4055614.5 61.1 3.40 4.00
3.16 NO NO
L0005835 0 0.15232E-03 733101.8 4055614.8 61.0 3.40 4.00
3.16 NO NO
L0005836 0 0.15232E-03 733110.4 4055615.1 61.0 3.40 4.00
3.16 NO NO
L0005837 0 0.15232E-03 733119.0 4055615.4 61.0 3.40 4.00
3.16 NO NO
L0005838 0 0.15232E-03 733127.6 4055615.7 61.0 3.40 4.00
3.16 NO NO
L0005839 0 0.15232E-03 733136.2 4055616.0 61.0 3.40 4.00
3.16 NO NO
L0005840 0 0.15232E-03 733144.8 4055616.3 61.0 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005841	0	0.15232E-03	733153.3	4055616.5	60.9	3.40	4.00			

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3.16     NO                    NO
 L0005842         0   0.15232E-03  733153.0 4055625.0    60.9     3.40     4.00
3.16     NO                    NO
 L0005843         0   0.15232E-03  733152.5 4055633.5    60.9     3.40     4.00
3.16     NO                    NO
 L0005844         0   0.15232E-03  733152.0 4055642.1    60.9     3.40     4.00
3.16     NO                    NO
 L0005845         0   0.15232E-03  733151.4 4055650.7    60.9     3.40     4.00
3.16     NO                    NO
 L0005846         0   0.15232E-03  733150.9 4055659.3    60.9     3.40     4.00
3.16     NO                    NO
 L0005847         0   0.15232E-03  733150.4 4055667.9    60.9     3.40     4.00
3.16     NO                    NO
 L0005848         0   0.15232E-03  733149.9 4055676.5    60.9     3.40     4.00
3.16     NO                    NO
 L0005849         0   0.15232E-03  733149.4 4055685.1    60.9     3.40     4.00
3.16     NO                    NO
 L0005850         0   0.15232E-03  733148.8 4055693.6    60.9     3.40     4.00
3.16     NO                    NO
 L0005851         0   0.15232E-03  733148.3 4055702.2    60.9     3.40     4.00
3.16     NO                    NO
 L0005852         0   0.15232E-03  733147.8 4055710.8    60.9     3.40     4.00
3.16     NO                    NO
 L0005853         0   0.15232E-03  733147.3 4055719.4    61.0     3.40     4.00
3.16     NO                    NO
 L0005854         0   0.15232E-03  733146.8 4055728.0    61.0     3.40     4.00
3.16     NO                    NO
 L0005855         0   0.15232E-03  733146.2 4055736.6    61.0     3.40     4.00
3.16     NO                    NO
 L0005856         0   0.15232E-03  733145.7 4055745.1    61.0     3.40     4.00
3.16     NO                    NO
 L0005857         0   0.15232E-03  733145.2 4055753.7    61.0     3.40     4.00
3.16     NO                    NO
 L0005858         0   0.15232E-03  733144.7 4055762.3    61.0     3.40     4.00
3.16     NO                    NO
 L0005859         0   0.15232E-03  733144.2 4055770.9    61.0     3.40     4.00
3.16     NO                    NO
 L0005860         0   0.15232E-03  733143.6 4055779.5    61.0     3.40     4.00
3.16     NO                    NO
 L0005861         0   0.15232E-03  733143.1 4055788.1    61.0     3.40     4.00
3.16     NO                    NO
 L0005862         0   0.15232E-03  733142.6 4055796.6    61.0     3.40     4.00
3.16     NO                    NO
 L0005863         0   0.15232E-03  733142.1 4055805.2    61.0     3.40     4.00
3.16     NO                    NO
 L0005864         0   0.15232E-03  733141.6 4055813.8    61.0     3.40     4.00
3.16     NO                    NO
 L0005865         0   0.15232E-03  733141.0 4055822.4    61.0     3.40     4.00
3.16     NO                    NO
 L0005866         0   0.15232E-03  733140.5 4055831.0    61.0     3.40     4.00
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3.16     NO                     NO
 L0005867         0   0.15232E-03  733140.0 4055839.6    61.0     3.40     4.00
3.16     NO                     NO
 L0005868         0   0.15232E-03  733139.5 4055848.2    61.0     3.40     4.00
3.16     NO                     NO
 L0005869         0   0.15232E-03  733139.0 4055856.7    61.0     3.40     4.00
3.16     NO                     NO
 L0005870         0   0.15232E-03  733138.4 4055865.3    61.0     3.40     4.00
3.16     NO                     NO
 L0005871         0   0.15232E-03  733137.9 4055873.9    61.0     3.40     4.00
3.16     NO                     NO
 L0005872         0   0.15232E-03  733137.4 4055882.5    61.0     3.40     4.00
3.16     NO                     NO
 L0005873         0   0.15232E-03  733136.9 4055891.1    61.0     3.40     4.00
3.16     NO                     NO
 L0005874         0   0.15232E-03  733136.4 4055899.7    61.0     3.40     4.00
3.16     NO                     NO
 L0005875         0   0.15232E-03  733130.4 4055902.2    61.1     3.40     4.00
3.16     NO                     NO
 L0005876         0   0.15232E-03  733121.8 4055901.9    61.1     3.40     4.00
3.16     NO                     NO
 L0005877         0   0.15232E-03  733113.3 4055901.5    61.1     3.40     4.00
3.16     NO                     NO
 L0005878         0   0.15232E-03  733104.7 4055901.1    61.1     3.40     4.00
3.16     NO                     NO
 L0005879         0   0.15232E-03  733096.1 4055900.7    61.1     3.40     4.00
3.16     NO                     NO
 L0005880         0   0.15232E-03  733087.5 4055900.3    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005881         0   0.15232E-03  733078.9 4055899.9    61.2     3.40     4.00
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3.16     NO                    NO
 L0005882         0   0.15232E-03  733070.3 4055899.5    61.2     3.40     4.00
3.16     NO                    NO
 L0005883         0   0.15232E-03  733061.7 4055899.2    61.2     3.40     4.00
3.16     NO                    NO
 L0005884         0   0.15232E-03  733053.1 4055898.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005885         0   0.15232E-03  733044.5 4055898.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005886         0   0.15232E-03  733035.9 4055898.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005887         0   0.15232E-03  733027.3 4055897.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005888         0   0.15232E-03  733018.7 4055897.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005889         0   0.15232E-03  733010.2 4055896.9    61.4     3.40     4.00
3.16     NO                    NO
 L0005890         0   0.15232E-03  733001.6 4055896.5    61.4     3.40     4.00
3.16     NO                    NO
 L0005891         0   0.15232E-03  732993.0 4055896.1    61.4     3.40     4.00
3.16     NO                    NO
 L0005892         0   0.15232E-03  732984.4 4055895.7    61.4     3.40     4.00
3.16     NO                    NO
 L0005893         0   0.15232E-03  732975.8 4055895.3    61.4     3.40     4.00
3.16     NO                    NO
 L0005894         0   0.15232E-03  732967.2 4055894.9    61.4     3.40     4.00
3.16     NO                    NO
 L0005895         0   0.15232E-03  732958.6 4055894.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005896         0   0.15232E-03  732950.0 4055894.2    61.5     3.40     4.00
3.16     NO                    NO
 L0005897         0   0.15232E-03  732941.4 4055893.8    61.5     3.40     4.00
3.16     NO                    NO
 L0005898         0   0.15232E-03  732932.8 4055893.4    61.5     3.40     4.00
3.16     NO                    NO
 L0005899         0   0.15232E-03  732924.2 4055893.0    61.5     3.40     4.00
3.16     NO                    NO
 L0005900         0   0.15232E-03  732915.7 4055892.6    61.5     3.40     4.00
3.16     NO                    NO
 L0005901         0   0.15232E-03  732907.1 4055892.2    61.6     3.40     4.00
3.16     NO                    NO
 L0005902         0   0.15232E-03  732898.5 4055891.9    61.6     3.40     4.00
3.16     NO                    NO
 L0005903         0   0.15232E-03  732889.9 4055891.5    61.6     3.40     4.00
3.16     NO                    NO
 L0005904         0   0.15232E-03  732881.3 4055891.1    61.7     3.40     4.00
3.16     NO                    NO
 L0005905         0   0.15232E-03  732872.7 4055890.7    61.7     3.40     4.00
3.16     NO                    NO
 L0005906         0   0.15232E-03  732864.1 4055890.3    61.7     3.40     4.00
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3.16 NO NO
L0005907 0 0.15232E-03 732855.5 4055889.9 61.7 3.40 4.00
3.16 NO NO
L0005908 0 0.15232E-03 732846.9 4055889.5 61.7 3.40 4.00
3.16 NO NO
L0005909 0 0.15232E-03 732838.3 4055889.2 61.7 3.40 4.00
3.16 NO NO
L0005910 0 0.15232E-03 732829.7 4055888.8 61.8 3.40 4.00
3.16 NO NO
L0005911 0 0.15232E-03 732821.1 4055888.4 61.8 3.40 4.00
3.16 NO NO
L0005912 0 0.15232E-03 732812.6 4055888.0 61.8 3.40 4.00
3.16 NO NO
L0005913 0 0.15232E-03 732804.0 4055887.6 61.8 3.40 4.00
3.16 NO NO
L0005914 0 0.15232E-03 732795.4 4055887.2 61.8 3.40 4.00
3.16 NO NO
L0005915 0 0.15232E-03 732786.8 4055886.9 61.8 3.40 4.00
3.16 NO NO
L0005916 0 0.15232E-03 732778.2 4055886.5 61.8 3.40 4.00
3.16 NO NO
L0005917 0 0.15232E-03 732769.6 4055886.1 61.9 3.40 4.00
3.16 NO NO
L0005918 0 0.15232E-03 732761.0 4055885.7 61.9 3.40 4.00
3.16 NO NO
L0005919 0 0.15232E-03 732752.4 4055885.3 61.9 3.40 4.00
3.16 NO NO
L0005920 0 0.15232E-03 732743.8 4055884.9 61.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0005921	0	0.15232E-03	732735.2	4055884.5	61.9	3.40	4.00			

```
3.16     NO                    NO
 L0005922         0   0.15232E-03  732726.6 4055884.2    61.9     3.40     4.00
3.16     NO                    NO
 L0005923         0   0.15232E-03  732718.1 4055883.8    61.9     3.40     4.00
3.16     NO                    NO
 L0005924         0   0.15232E-03  732709.5 4055883.4    62.0     3.40     4.00
3.16     NO                    NO
 L0005925         0   0.15232E-03  732700.9 4055883.0    62.0     3.40     4.00
3.16     NO                    NO
 L0005926         0   0.15232E-03  732692.3 4055882.6    62.0     3.40     4.00
3.16     NO                    NO
 L0005927         0   0.15232E-03  732683.7 4055882.2    62.0     3.40     4.00
3.16     NO                    NO
 L0005928         0   0.15232E-03  732675.1 4055881.9    62.0     3.40     4.00
3.16     NO                    NO
 L0005929         0   0.15232E-03  732666.5 4055881.5    62.0     3.40     4.00
3.16     NO                    NO
 L0005930         0   0.15232E-03  732657.9 4055881.1    62.0     3.40     4.00
3.16     NO                    NO
 L0005931         0   0.15232E-03  732649.3 4055880.7    62.0     3.40     4.00
3.16     NO                    NO
 L0005932         0   0.15232E-03  732640.7 4055880.3    62.0     3.40     4.00
3.16     NO                    NO
 L0005933         0   0.15232E-03  732632.1 4055879.9    62.1     3.40     4.00
3.16     NO                    NO
 L0005934         0   0.15232E-03  732623.5 4055879.5    62.1     3.40     4.00
3.16     NO                    NO
 L0005935         0   0.15232E-03  732615.0 4055879.2    62.1     3.40     4.00
3.16     NO                    NO
 L0005936         0   0.15232E-03  732606.4 4055878.8    62.1     3.40     4.00
3.16     NO                    NO
 L0005937         0   0.15232E-03  732597.8 4055878.4    62.1     3.40     4.00
3.16     NO                    NO
 L0005938         0   0.15232E-03  732589.2 4055878.0    62.1     3.40     4.00
3.16     NO                    NO
 L0005939         0   0.15232E-03  732580.6 4055877.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005940         0   0.15232E-03  732572.0 4055877.2    62.2     3.40     4.00
3.16     NO                    NO
 L0005941         0   0.15232E-03  732563.4 4055876.9    62.2     3.40     4.00
3.16     NO                    NO
 L0005942         0   0.15232E-03  732555.7 4055875.7    62.2     3.40     4.00
3.16     NO                    NO
 L0005943         0   0.15232E-03  732556.6 4055867.1    62.2     3.40     4.00
3.16     NO                    NO
 L0005944         0   0.15232E-03  732557.4 4055858.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005945         0   0.15232E-03  732558.3 4055850.0    62.2     3.40     4.00
3.16     NO                    NO
 L0005946         0   0.15232E-03  732559.1 4055841.5    62.2     3.40     4.00
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3.16     NO                     NO
 L0005947         0   0.15232E-03  732560.0 4055832.9    62.2     3.40     4.00
3.16     NO                     NO
 L0005948         0   0.15232E-03  732560.8 4055824.4    62.2     3.40     4.00
3.16     NO                     NO
 L0005949         0   0.15232E-03  732561.7 4055815.8    62.2     3.40     4.00
3.16     NO                     NO
 L0005950         0   0.15232E-03  732562.6 4055807.2    62.2     3.40     4.00
3.16     NO                     NO
 L0005951         0   0.15232E-03  732563.4 4055798.7    62.1     3.40     4.00
3.16     NO                     NO
 L0005952         0   0.15232E-03  732564.3 4055790.1    62.1     3.40     4.00
3.16     NO                     NO
 L0005953         0   0.15232E-03  732565.1 4055781.6    62.1     3.40     4.00
3.16     NO                     NO
 L0005954         0   0.15232E-03  732566.0 4055773.0    62.1     3.40     4.00
3.16     NO                     NO
 L0005955         0   0.15232E-03  732566.8 4055764.5    62.1     3.40     4.00
3.16     NO                     NO
 L0005956         0   0.15232E-03  732567.7 4055755.9    62.1     3.40     4.00
3.16     NO                     NO
 L0005957         0   0.15232E-03  732568.5 4055747.3    62.1     3.40     4.00
3.16     NO                     NO
 L0005958         0   0.15232E-03  732569.4 4055738.8    62.1     3.40     4.00
3.16     NO                     NO
 L0005959         0   0.15232E-03  732570.3 4055730.2    62.0     3.40     4.00
3.16     NO                     NO
 L0005960         0   0.15232E-03  732571.1 4055721.7    62.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0005961         0   0.15232E-03  732572.0 4055713.1    62.0     3.40     4.00
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3.16     NO                    NO
 L0005962         0   0.15232E-03  732572.8 4055704.5    62.0     3.40     4.00
3.16     NO                    NO
 L0005963         0   0.15232E-03  732580.2 4055703.5    62.0     3.40     4.00
3.16     NO                    NO
 L0005964         0   0.15232E-03  732588.8 4055703.8    62.0     3.40     4.00
3.16     NO                    NO
 L0005965         0   0.15232E-03  732597.4 4055704.2    62.0     3.40     4.00
3.16     NO                    NO
 L0005966         0   0.15232E-03  732606.0 4055704.5    62.0     3.40     4.00
3.16     NO                    NO
 L0005967         0   0.15232E-03  732614.6 4055704.8    62.0     3.40     4.00
3.16     NO                    NO
 L0005968         0   0.15232E-03  732623.2 4055705.2    61.9     3.40     4.00
3.16     NO                    NO
 L0005969         0   0.15232E-03  732631.8 4055705.5    61.9     3.40     4.00
3.16     NO                    NO
 L0005970         0   0.15232E-03  732640.3 4055705.8    61.9     3.40     4.00
3.16     NO                    NO
 L0005971         0   0.15232E-03  732648.9 4055706.2    61.9     3.40     4.00
3.16     NO                    NO
 L0005972         0   0.15232E-03  732657.5 4055706.5    61.9     3.40     4.00
3.16     NO                    NO
 L0005973         0   0.15232E-03  732666.1 4055706.9    61.9     3.40     4.00
3.16     NO                    NO
 L0005974         0   0.15232E-03  732674.7 4055707.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005975         0   0.15232E-03  732683.3 4055707.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005976         0   0.15232E-03  732691.9 4055707.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005977         0   0.15232E-03  732700.5 4055708.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005978         0   0.15232E-03  732709.1 4055708.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005979         0   0.15232E-03  732717.7 4055708.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005980         0   0.15232E-03  732726.3 4055709.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005981         0   0.15232E-03  732734.9 4055709.6    61.8     3.40     4.00
3.16     NO                    NO
 L0005982         0   0.15232E-03  732743.5 4055709.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005983         0   0.15232E-03  732752.1 4055710.2    61.7     3.40     4.00
3.16     NO                    NO
 L0005984         0   0.15232E-03  732760.7 4055710.6    61.7     3.40     4.00
3.16     NO                    NO
 L0005985         0   0.15232E-03  732769.2 4055710.9    61.7     3.40     4.00
3.16     NO                    NO
 L0005986         0   0.15232E-03  732777.8 4055711.2    61.7     3.40     4.00
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3.16     NO                     NO
 L0005987         0   0.15232E-03  732786.4 4055711.6    61.7     3.40     4.00
3.16     NO                     NO
 L0005988         0   0.15232E-03  732795.0 4055711.9    61.6     3.40     4.00
3.16     NO                     NO
 L0005989         0   0.15232E-03  732803.6 4055712.2    61.6     3.40     4.00
3.16     NO                     NO
 L0005990         0   0.15232E-03  732812.2 4055712.6    61.6     3.40     4.00
3.16     NO                     NO
 L0005991         0   0.15232E-03  732820.8 4055712.9    61.6     3.40     4.00
3.16     NO                     NO
 L0005992         0   0.15232E-03  732829.4 4055713.3    61.6     3.40     4.00
3.16     NO                     NO
 L0005993         0   0.15232E-03  732838.0 4055713.6    61.6     3.40     4.00
3.16     NO                     NO
 L0005994         0   0.15232E-03  732846.6 4055713.9    61.6     3.40     4.00
3.16     NO                     NO
 L0005995         0   0.15232E-03  732855.2 4055714.3    61.6     3.40     4.00
3.16     NO                     NO
 L0005996         0   0.15232E-03  732863.8 4055714.6    61.5     3.40     4.00
3.16     NO                     NO
 L0005997         0   0.15232E-03  732872.4 4055714.9    61.5     3.40     4.00
3.16     NO                     NO
 L0005998         0   0.15232E-03  732881.0 4055715.3    61.5     3.40     4.00
3.16     NO                     NO
 L0005999         0   0.15232E-03  732889.6 4055715.6    61.5     3.40     4.00
3.16     NO                     NO
 L0006000         0   0.15232E-03  732898.2 4055716.0    61.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0006001         0   0.15232E-03  732906.7 4055716.3    61.5     3.40     4.00
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3.16     NO                    NO
 L0006002         0   0.15232E-03  732915.3 4055716.6    61.5     3.40     4.00
3.16     NO                    NO
 L0006003         0   0.15232E-03  732923.9 4055717.0    61.4     3.40     4.00
3.16     NO                    NO
 L0006004         0   0.15232E-03  732932.5 4055717.3    61.4     3.40     4.00
3.16     NO                    NO
 L0006005         0   0.15232E-03  732941.1 4055717.6    61.4     3.40     4.00
3.16     NO                    NO
 L0006006         0   0.15232E-03  732949.7 4055718.0    61.4     3.40     4.00
3.16     NO                    NO
 L0006007         0   0.15232E-03  732958.3 4055718.3    61.4     3.40     4.00
3.16     NO                    NO
 L0006008         0   0.15232E-03  732966.9 4055718.7    61.4     3.40     4.00
3.16     NO                    NO
 L0006009         0   0.15232E-03  732975.5 4055719.0    61.3     3.40     4.00
3.16     NO                    NO
 L0006010         0   0.15232E-03  732984.1 4055719.3    61.3     3.40     4.00
3.16     NO                    NO
 L0006011         0   0.15232E-03  732992.7 4055719.7    61.3     3.40     4.00
3.16     NO                    NO
 L0006012         0   0.15232E-03  733001.3 4055720.0    61.3     3.40     4.00
3.16     NO                    NO
 L0006013         0   0.15232E-03  733009.9 4055720.3    61.3     3.40     4.00
3.16     NO                    NO
 L0006014         0   0.15232E-03  731234.2 4055469.4    64.5     3.40     4.00
3.16     NO                    NO
 L0006015         0   0.15232E-03  731242.8 4055469.7    64.4     3.40     4.00
3.16     NO                    NO
 L0006016         0   0.15232E-03  731251.4 4055470.0    64.4     3.40     4.00
3.16     NO                    NO
 L0006017         0   0.15232E-03  731259.9 4055470.3    64.4     3.40     4.00
3.16     NO                    NO
 L0006018         0   0.15232E-03  731268.5 4055470.6    64.4     3.40     4.00
3.16     NO                    NO
 L0006019         0   0.15232E-03  731277.1 4055470.9    64.4     3.40     4.00
3.16     NO                    NO
 L0006020         0   0.15232E-03  731285.7 4055471.2    64.3     3.40     4.00
3.16     NO                    NO
 L0006021         0   0.15232E-03  731294.3 4055471.5    64.3     3.40     4.00
3.16     NO                    NO
 L0006022         0   0.15232E-03  731302.9 4055471.9    64.3     3.40     4.00
3.16     NO                    NO
 L0006023         0   0.15232E-03  731311.5 4055472.2    64.3     3.40     4.00
3.16     NO                    NO
 L0006024         0   0.15232E-03  731320.1 4055472.5    64.3     3.40     4.00
3.16     NO                    NO
 L0006025         0   0.15232E-03  731328.7 4055472.8    64.3     3.40     4.00
3.16     NO                    NO
 L0006026         0   0.15232E-03  731337.3 4055473.1    64.2     3.40     4.00
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3.16     NO                     NO
 L0006027         0   0.15232E-03  731345.9 4055473.4    64.2     3.40     4.00
3.16     NO                     NO
 L0006028         0   0.15232E-03  731354.5 4055473.7    64.2     3.40     4.00
3.16     NO                     NO
 L0006029         0   0.15232E-03  731363.1 4055474.0    64.2     3.40     4.00
3.16     NO                     NO
 L0006030         0   0.15232E-03  731371.7 4055474.3    64.2     3.40     4.00
3.16     NO                     NO
 L0006031         0   0.15232E-03  731380.3 4055474.6    64.2     3.40     4.00
3.16     NO                     NO
 L0006032         0   0.15232E-03  731388.9 4055474.9    64.1     3.40     4.00
3.16     NO                     NO
 L0006033         0   0.15232E-03  731397.5 4055475.2    64.1     3.40     4.00
3.16     NO                     NO
 L0006034         0   0.15232E-03  731406.1 4055475.5    64.1     3.40     4.00
3.16     NO                     NO
 L0006035         0   0.15232E-03  731414.6 4055475.8    64.1     3.40     4.00
3.16     NO                     NO
 L0006036         0   0.15232E-03  731423.2 4055476.2    64.1     3.40     4.00
3.16     NO                     NO
 L0006037         0   0.15232E-03  731431.8 4055476.5    64.0     3.40     4.00
3.16     NO                     NO
 L0006038         0   0.15232E-03  731440.4 4055476.8    64.0     3.40     4.00
3.16     NO                     NO
 L0006039         0   0.15232E-03  731449.0 4055477.1    64.0     3.40     4.00
3.16     NO                     NO
 L0006040         0   0.15232E-03  731457.6 4055477.4    64.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 153
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006041         0   0.15232E-03  731466.2 4055477.7    64.0     3.40     4.00
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3.16     NO                    NO
 L0006042         0   0.15232E-03  731474.8 4055478.0    64.0     3.40     4.00
3.16     NO                    NO
 L0006043         0   0.15232E-03  731483.4 4055478.3    63.9     3.40     4.00
3.16     NO                    NO
 L0006044         0   0.15232E-03  731492.0 4055478.6    63.9     3.40     4.00
3.16     NO                    NO
 L0006045         0   0.15232E-03  731500.6 4055478.9    63.9     3.40     4.00
3.16     NO                    NO
 L0006046         0   0.15232E-03  731509.2 4055479.2    63.8     3.40     4.00
3.16     NO                    NO
 L0006047         0   0.15232E-03  731517.8 4055479.5    63.8     3.40     4.00
3.16     NO                    NO
 L0006048         0   0.15232E-03  731526.4 4055479.8    63.8     3.40     4.00
3.16     NO                    NO
 L0006049         0   0.15232E-03  731535.0 4055480.1    63.8     3.40     4.00
3.16     NO                    NO
 L0006050         0   0.15232E-03  731543.6 4055480.4    63.8     3.40     4.00
3.16     NO                    NO
 L0006051         0   0.15232E-03  731552.2 4055480.8    63.8     3.40     4.00
3.16     NO                    NO
 L0006052         0   0.15232E-03  731560.8 4055481.1    63.8     3.40     4.00
3.16     NO                    NO
 L0006053         0   0.15232E-03  731569.3 4055481.4    63.8     3.40     4.00
3.16     NO                    NO
 L0006054         0   0.15232E-03  731577.9 4055481.7    63.7     3.40     4.00
3.16     NO                    NO
 L0006055         0   0.15232E-03  731586.5 4055482.0    63.7     3.40     4.00
3.16     NO                    NO
 L0006056         0   0.15232E-03  731595.1 4055482.3    63.7     3.40     4.00
3.16     NO                    NO
 L0006057         0   0.15232E-03  731603.7 4055482.6    63.7     3.40     4.00
3.16     NO                    NO
 L0006058         0   0.15232E-03  731612.3 4055482.9    63.7     3.40     4.00
3.16     NO                    NO
 L0006059         0   0.15232E-03  731620.9 4055483.2    63.6     3.40     4.00
3.16     NO                    NO
 L0006060         0   0.15232E-03  731629.5 4055483.5    63.6     3.40     4.00
3.16     NO                    NO
 L0006061         0   0.15232E-03  731638.1 4055483.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006062         0   0.15232E-03  731646.7 4055484.1    63.6     3.40     4.00
3.16     NO                    NO
 L0006063         0   0.15232E-03  731655.3 4055484.4    63.6     3.40     4.00
3.16     NO                    NO
 L0006064         0   0.15232E-03  731663.9 4055484.7    63.5     3.40     4.00
3.16     NO                    NO
 L0006065         0   0.15232E-03  731672.5 4055485.1    63.5     3.40     4.00
3.16     NO                    NO
 L0006066         0   0.15232E-03  731681.1 4055485.4    63.5     3.40     4.00
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3.16     NO                     NO
 L0006067         0   0.15232E-03  731689.7 4055485.7    63.5     3.40     4.00
3.16     NO                     NO
 L0006068         0   0.15232E-03  731698.3 4055486.0    63.5     3.40     4.00
3.16     NO                     NO
 L0006069         0   0.15232E-03  731706.9 4055486.3    63.4     3.40     4.00
3.16     NO                     NO
 L0006070         0   0.15232E-03  731715.5 4055486.6    63.4     3.40     4.00
3.16     NO                     NO
 L0006071         0   0.15232E-03  731724.0 4055486.9    63.4     3.40     4.00
3.16     NO                     NO
 L0006072         0   0.15232E-03  731732.6 4055487.2    63.4     3.40     4.00
3.16     NO                     NO
 L0006073         0   0.15232E-03  731741.2 4055487.5    63.4     3.40     4.00
3.16     NO                     NO
 L0006074         0   0.15232E-03  731749.8 4055487.8    63.4     3.40     4.00
3.16     NO                     NO
 L0006075         0   0.15232E-03  731758.4 4055488.1    63.3     3.40     4.00
3.16     NO                     NO
 L0006076         0   0.15232E-03  731767.0 4055488.4    63.3     3.40     4.00
3.16     NO                     NO
 L0006077         0   0.15232E-03  731775.6 4055488.7    63.3     3.40     4.00
3.16     NO                     NO
 L0006078         0   0.15232E-03  731784.2 4055489.0    63.3     3.40     4.00
3.16     NO                     NO
 L0006079         0   0.15232E-03  731792.8 4055489.3    63.3     3.40     4.00
3.16     NO                     NO
 L0006080         0   0.15232E-03  731801.4 4055489.7    63.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0006081         0   0.15232E-03  731810.0 4055490.0    63.2     3.40     4.00
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3.16     NO                    NO
 L0006082         0   0.15232E-03  731818.6 4055490.3    63.2     3.40     4.00
3.16     NO                    NO
 L0006083         0   0.15232E-03  731827.2 4055490.6    63.2     3.40     4.00
3.16     NO                    NO
 L0006084         0   0.15232E-03  731835.8 4055490.9    63.2     3.40     4.00
3.16     NO                    NO
 L0006085         0   0.15232E-03  731844.4 4055491.2    63.2     3.40     4.00
3.16     NO                    NO
 L0006086         0   0.15232E-03  731853.0 4055491.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006087         0   0.15232E-03  731861.6 4055491.8    63.2     3.40     4.00
3.16     NO                    NO
 L0006088         0   0.15232E-03  731870.2 4055492.1    63.2     3.40     4.00
3.16     NO                    NO
 L0006089         0   0.15232E-03  731878.8 4055492.4    63.2     3.40     4.00
3.16     NO                    NO
 L0006090         0   0.15232E-03  731887.3 4055492.7    63.1     3.40     4.00
3.16     NO                    NO
 L0006091         0   0.15232E-03  731895.9 4055493.0    63.1     3.40     4.00
3.16     NO                    NO
 L0006092         0   0.15232E-03  731904.5 4055493.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006093         0   0.15232E-03  731913.1 4055493.6    63.1     3.40     4.00
3.16     NO                    NO
 L0006094         0   0.15232E-03  731921.7 4055494.0    63.1     3.40     4.00
3.16     NO                    NO
 L0006095         0   0.15232E-03  731930.3 4055494.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006096         0   0.15232E-03  731938.9 4055494.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006097         0   0.15232E-03  731947.5 4055494.9    63.0     3.40     4.00
3.16     NO                    NO
 L0006098         0   0.15232E-03  731956.1 4055495.2    63.0     3.40     4.00
3.16     NO                    NO
 L0006099         0   0.15232E-03  731958.0 4055488.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006100         0   0.15232E-03  731958.4 4055479.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006101         0   0.15232E-03  731958.7 4055471.1    63.0     3.40     4.00
3.16     NO                    NO
 L0006102         0   0.15232E-03  731959.1 4055462.5    63.0     3.40     4.00
3.16     NO                    NO
 L0006103         0   0.15232E-03  731959.5 4055453.9    63.0     3.40     4.00
3.16     NO                    NO
 L0006104         0   0.15232E-03  731959.8 4055445.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006105         0   0.15232E-03  731960.2 4055436.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006106         0   0.15232E-03  731960.5 4055428.1    63.0     3.40     4.00
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3.16     NO                     NO
 L0006107         0   0.15232E-03  731960.9 4055419.5    63.0     3.40     4.00
3.16     NO                     NO
 L0006108         0   0.15232E-03  731961.2 4055410.9    62.9     3.40     4.00
3.16     NO                     NO
 L0006109         0   0.15232E-03  731961.6 4055402.4    62.9     3.40     4.00
3.16     NO                     NO
 L0006110         0   0.15232E-03  731962.0 4055393.8    62.9     3.40     4.00
3.16     NO                     NO
 L0006111         0   0.15232E-03  731962.3 4055385.2    62.9     3.40     4.00
3.16     NO                     NO
 L0006112         0   0.15232E-03  731962.7 4055376.6    62.9     3.40     4.00
3.16     NO                     NO
 L0006113         0   0.15232E-03  731963.0 4055368.0    62.9     3.40     4.00
3.16     NO                     NO
 L0006114         0   0.15232E-03  731963.4 4055359.4    62.9     3.40     4.00
3.16     NO                     NO
 L0006115         0   0.15232E-03  731963.8 4055350.8    62.9     3.40     4.00
3.16     NO                     NO
 L0006116         0   0.15232E-03  731964.1 4055342.2    62.9     3.40     4.00
3.16     NO                     NO
 L0006117         0   0.15232E-03  731964.5 4055333.6    62.9     3.40     4.00
3.16     NO                     NO
 L0006118         0   0.15232E-03  731964.8 4055325.0    62.9     3.40     4.00
3.16     NO                     NO
 L0006119         0   0.15232E-03  731965.2 4055316.4    62.9     3.40     4.00
3.16     NO                     NO
 L0006120         0   0.15232E-03  731965.5 4055307.8    62.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0006121         0   0.15232E-03  731965.9 4055299.2    62.9     3.40     4.00
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3.16     NO                    NO
 L0006122         0   0.15232E-03  731966.3 4055290.6    62.9     3.40     4.00
3.16     NO                    NO
 L0006123         0   0.15232E-03  731961.2 4055286.8    62.9     3.40     4.00
3.16     NO                    NO
 L0006124         0   0.15232E-03  731952.6 4055286.1    62.9     3.40     4.00
3.16     NO                    NO
 L0006125         0   0.15232E-03  731944.1 4055285.4    62.9     3.40     4.00
3.16     NO                    NO
 L0006126         0   0.15232E-03  731935.5 4055284.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006127         0   0.15232E-03  731926.9 4055284.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006128         0   0.15232E-03  731918.3 4055283.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006129         0   0.15232E-03  731909.8 4055282.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006130         0   0.15232E-03  731901.2 4055281.8    63.0     3.40     4.00
3.16     NO                    NO
 L0006131         0   0.15232E-03  731892.6 4055281.1    63.0     3.40     4.00
3.16     NO                    NO
 L0006132         0   0.15232E-03  731884.1 4055280.4    63.0     3.40     4.00
3.16     NO                    NO
 L0006133         0   0.15232E-03  731875.5 4055279.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006134         0   0.15232E-03  731866.9 4055279.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006135         0   0.15232E-03  731862.5 4055274.5    63.1     3.40     4.00
3.16     NO                    NO
 L0006136         0   0.15232E-03  731862.7 4055265.9    63.1     3.40     4.00
3.16     NO                    NO
 L0006137         0   0.15232E-03  731862.8 4055257.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006138         0   0.15232E-03  731863.0 4055248.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006139         0   0.15232E-03  731863.2 4055240.1    63.0     3.40     4.00
3.16     NO                    NO
 L0006140         0   0.15232E-03  731863.3 4055231.5    63.0     3.40     4.00
3.16     NO                    NO
 L0006141         0   0.15232E-03  731863.5 4055222.9    63.0     3.40     4.00
3.16     NO                    NO
 L0006142         0   0.15232E-03  731863.7 4055214.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006143         0   0.15232E-03  731863.8 4055205.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006144         0   0.15232E-03  731864.0 4055197.1    63.0     3.40     4.00
3.16     NO                    NO
 L0006145         0   0.15232E-03  731864.1 4055188.5    63.0     3.40     4.00
3.16     NO                    NO
 L0006146         0   0.15232E-03  731864.3 4055179.9    63.0     3.40     4.00
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3.16     NO                     NO
 L0006147         0   0.15232E-03  731864.5 4055171.3    63.0     3.40     4.00
3.16     NO                     NO
 L0006148         0   0.15232E-03  731864.6 4055162.8    63.0     3.40     4.00
3.16     NO                     NO
 L0006149         0   0.15232E-03  731864.8 4055154.2    63.0     3.40     4.00
3.16     NO                     NO
 L0006150         0   0.15232E-03  731865.0 4055145.6    63.0     3.40     4.00
3.16     NO                     NO
 L0006151         0   0.15232E-03  731865.1 4055137.0    63.0     3.40     4.00
3.16     NO                     NO
 L0006152         0   0.15232E-03  731865.3 4055128.4    63.0     3.40     4.00
3.16     NO                     NO
 L0006153         0   0.15232E-03  731865.5 4055119.8    63.0     3.40     4.00
3.16     NO                     NO
 L0006154         0   0.15232E-03  731865.6 4055111.2    63.0     3.40     4.00
3.16     NO                     NO
 L0006155         0   0.15232E-03  731865.8 4055102.6    63.0     3.40     4.00
3.16     NO                     NO
 L0006156         0   0.15232E-03  731866.0 4055094.0    63.0     3.40     4.00
3.16     NO                     NO
 L0006157         0   0.15232E-03  731866.1 4055085.4    63.0     3.40     4.00
3.16     NO                     NO
 L0006158         0   0.15232E-03  731866.3 4055076.8    63.0     3.40     4.00
3.16     NO                     NO
 L0006159         0   0.15232E-03  731866.5 4055068.2    63.0     3.40     4.00
3.16     NO                     NO
 L0006160         0   0.15232E-03  731866.6 4055059.6    63.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0006161         0   0.15232E-03  731866.8 4055051.0    63.0     3.40     4.00
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3.16     NO                    NO
 L0006162         0   0.15232E-03  731867.0 4055042.4    63.0     3.40     4.00
3.16     NO                    NO
 L0006163         0   0.15232E-03  731867.1 4055033.8    63.0     3.40     4.00
3.16     NO                    NO
 L0006164         0   0.15232E-03  731867.3 4055025.2    63.0     3.40     4.00
3.16     NO                    NO
 L0006165         0   0.15232E-03  731867.5 4055016.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006166         0   0.15232E-03  731867.6 4055008.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006167         0   0.15232E-03  731867.8 4054999.4    63.0     3.40     4.00
3.16     NO                    NO
 L0006168         0   0.15232E-03  731868.0 4054990.8    63.0     3.40     4.00
3.16     NO                    NO
 L0006169         0   0.15232E-03  731868.1 4054982.2    63.0     3.40     4.00
3.16     NO                    NO
 L0006170         0   0.15232E-03  731868.3 4054973.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006171         0   0.15232E-03  731868.4 4054965.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006172         0   0.15232E-03  731868.6 4054956.4    63.0     3.40     4.00
3.16     NO                    NO
 L0006173         0   0.15232E-03  731868.8 4054947.8    63.0     3.40     4.00
3.16     NO                    NO
 L0006174         0   0.15232E-03  731868.9 4054939.2    63.0     3.40     4.00
3.16     NO                    NO
 L0006175         0   0.15232E-03  731869.1 4054930.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006176         0   0.15232E-03  731869.3 4054922.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006177         0   0.15232E-03  731869.4 4054913.4    62.9     3.40     4.00
3.16     NO                    NO
 L0006178         0   0.15232E-03  731869.6 4054904.8    62.9     3.40     4.00
3.16     NO                    NO
 L0006179         0   0.15232E-03  731869.8 4054896.2    62.9     3.40     4.00
3.16     NO                    NO
 L0006180         0   0.15232E-03  731869.9 4054887.6    62.9     3.40     4.00
3.16     NO                    NO
 L0006181         0   0.15232E-03  731870.1 4054879.0    62.9     3.40     4.00
3.16     NO                    NO
 L0006182         0   0.15232E-03  731870.3 4054870.4    62.9     3.40     4.00
3.16     NO                    NO
 L0006183         0   0.15232E-03  731870.4 4054861.8    62.9     3.40     4.00
3.16     NO                    NO
 L0006184         0   0.15232E-03  731870.6 4054853.2    62.9     3.40     4.00
3.16     NO                    NO
 L0006185         0   0.15232E-03  731870.8 4054844.6    62.9     3.40     4.00
3.16     NO                    NO
 L0006186         0   0.15232E-03  731870.9 4054836.0    62.9     3.40     4.00
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3.16     NO                     NO
 L0006187         0   0.15232E-03  731870.5 4054828.0    62.9     3.40     4.00
3.16     NO                     NO
 L0006188         0   0.15232E-03  731861.9 4054827.9    63.0     3.40     4.00
3.16     NO                     NO
 L0006189         0   0.15232E-03  731853.3 4054827.8    63.0     3.40     4.00
3.16     NO                     NO
 L0006190         0   0.15232E-03  731844.7 4054827.6    63.0     3.40     4.00
3.16     NO                     NO
 L0006191         0   0.15232E-03  731836.1 4054827.5    63.0     3.40     4.00
3.16     NO                     NO
 L0006192         0   0.15232E-03  731827.5 4054827.4    63.0     3.40     4.00
3.16     NO                     NO
 L0006193         0   0.15232E-03  731818.9 4054827.3    63.0     3.40     4.00
3.16     NO                     NO
 L0006194         0   0.15232E-03  731810.3 4054827.1    63.0     3.40     4.00
3.16     NO                     NO
 L0006195         0   0.15232E-03  731801.7 4054827.0    63.0     3.40     4.00
3.16     NO                     NO
 L0006196         0   0.15232E-03  731793.1 4054826.9    63.1     3.40     4.00
3.16     NO                     NO
 L0006197         0   0.15232E-03  731784.5 4054826.8    63.1     3.40     4.00
3.16     NO                     NO
 L0006198         0   0.15232E-03  731775.9 4054826.6    63.1     3.40     4.00
3.16     NO                     NO
 L0006199         0   0.15232E-03  731767.3 4054826.5    63.1     3.40     4.00
3.16     NO                     NO
 L0006200         0   0.15232E-03  731758.7 4054826.4    63.1     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0006201	0	0.15232E-03	731750.1	4054826.3	63.1	3.40	4.00			

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3.16     NO                    NO
 L0006202         0   0.15232E-03  731741.5 4054826.1    63.1     3.40     4.00
3.16     NO                    NO
 L0006203         0   0.15232E-03  731732.9 4054826.0    63.1     3.40     4.00
3.16     NO                    NO
 L0006204         0   0.15232E-03  731724.3 4054825.9    63.1     3.40     4.00
3.16     NO                    NO
 L0006205         0   0.15232E-03  731715.7 4054825.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006206         0   0.15232E-03  731707.1 4054825.6    63.1     3.40     4.00
3.16     NO                    NO
 L0006207         0   0.15232E-03  731698.5 4054825.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006208         0   0.15232E-03  731689.9 4054825.4    63.2     3.40     4.00
3.16     NO                    NO
 L0006209         0   0.15232E-03  731681.3 4054825.3    63.2     3.40     4.00
3.16     NO                    NO
 L0006210         0   0.15232E-03  731672.7 4054825.2    63.2     3.40     4.00
3.16     NO                    NO
 L0006211         0   0.15232E-03  731664.1 4054825.0    63.2     3.40     4.00
3.16     NO                    NO
 L0006212         0   0.15232E-03  731655.5 4054824.9    63.2     3.40     4.00
3.16     NO                    NO
 L0006213         0   0.15232E-03  731646.9 4054824.8    63.2     3.40     4.00
3.16     NO                    NO
 L0006214         0   0.15232E-03  731638.3 4054824.7    63.2     3.40     4.00
3.16     NO                    NO
 L0006215         0   0.15232E-03  731629.7 4054824.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006216         0   0.15232E-03  731621.1 4054824.4    63.3     3.40     4.00
3.16     NO                    NO
 L0006217         0   0.15232E-03  731612.5 4054824.3    63.3     3.40     4.00
3.16     NO                    NO
 L0006218         0   0.15232E-03  731603.9 4054824.2    63.3     3.40     4.00
3.16     NO                    NO
 L0006219         0   0.15232E-03  731595.3 4054824.0    63.3     3.40     4.00
3.16     NO                    NO
 L0006220         0   0.15232E-03  731586.7 4054823.9    63.3     3.40     4.00
3.16     NO                    NO
 L0006221         0   0.15232E-03  731578.1 4054823.8    63.3     3.40     4.00
3.16     NO                    NO
 L0006222         0   0.15232E-03  731569.5 4054823.7    63.4     3.40     4.00
3.16     NO                    NO
 L0006223         0   0.15232E-03  731560.9 4054823.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006224         0   0.15232E-03  731552.3 4054823.4    63.4     3.40     4.00
3.16     NO                    NO
 L0006225         0   0.15232E-03  731543.7 4054823.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006226         0   0.15232E-03  731535.1 4054823.2    63.4     3.40     4.00
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3.16   NO   NO
 L0006227   0   0.15232E-03 731526.5 4054823.0   63.5   3.40   4.00
3.16   NO   NO
 L0006228   0   0.15232E-03 731517.9 4054822.9   63.5   3.40   4.00
3.16   NO   NO
 L0006229   0   0.15232E-03 731509.3 4054822.8   63.5   3.40   4.00
3.16   NO   NO
 L0006230   0   0.15232E-03 731500.7 4054822.7   63.5   3.40   4.00
3.16   NO   NO
 L0006231   0   0.15232E-03 731492.1 4054822.5   63.5   3.40   4.00
3.16   NO   NO
 L0006232   0   0.15232E-03 731483.5 4054822.4   63.5   3.40   4.00
3.16   NO   NO
 L0006233   0   0.15232E-03 731474.9 4054822.3   63.5   3.40   4.00
3.16   NO   NO
 L0006234   0   0.15232E-03 731466.3 4054822.2   63.5   3.40   4.00
3.16   NO   NO
 L0006235   0   0.15232E-03 731457.7 4054822.0   63.6   3.40   4.00
3.16   NO   NO
 L0006236   0   0.15232E-03 731449.1 4054821.9   63.6   3.40   4.00
3.16   NO   NO
 L0006237   0   0.15232E-03 731440.5 4054821.8   63.6   3.40   4.00
3.16   NO   NO
 L0006238   0   0.15232E-03 731431.9 4054821.7   63.7   3.40   4.00
3.16   NO   NO
 L0006239   0   0.15232E-03 731423.3 4054821.5   63.7   3.40   4.00
3.16   NO   NO
 L0006240   0   0.15232E-03 731414.7 4054821.4   63.8   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0006241   0   0.15232E-03 731406.1 4054821.3   63.8   3.40   4.00

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3.16     NO                    NO
 L0006242         0   0.15232E-03  731397.5 4054821.2    63.8     3.40     4.00
3.16     NO                    NO
 L0006243         0   0.15232E-03  731388.9 4054821.0    63.9     3.40     4.00
3.16     NO                    NO
 L0006244         0   0.15232E-03  731380.3 4054820.9    64.0     3.40     4.00
3.16     NO                    NO
 L0006245         0   0.15232E-03  731371.7 4054820.8    64.0     3.40     4.00
3.16     NO                    NO
 L0006246         0   0.15232E-03  731363.1 4054820.7    64.1     3.40     4.00
3.16     NO                    NO
 L0006247         0   0.15232E-03  731354.5 4054820.5    64.1     3.40     4.00
3.16     NO                    NO
 L0006248         0   0.15232E-03  731345.9 4054820.4    64.1     3.40     4.00
3.16     NO                    NO
 L0006249         0   0.15232E-03  731337.3 4054820.3    64.2     3.40     4.00
3.16     NO                    NO
 L0006250         0   0.15232E-03  731328.7 4054820.2    64.2     3.40     4.00
3.16     NO                    NO
 L0006251         0   0.15232E-03  731320.1 4054820.0    64.3     3.40     4.00
3.16     NO                    NO
 L0006252         0   0.15232E-03  731311.5 4054819.9    64.3     3.40     4.00
3.16     NO                    NO
 L0006253         0   0.15232E-03  731302.9 4054819.8    64.3     3.40     4.00
3.16     NO                    NO
 L0006254         0   0.15232E-03  731294.3 4054819.7    64.4     3.40     4.00
3.16     NO                    NO
 L0006255         0   0.15232E-03  731285.7 4054819.5    64.4     3.40     4.00
3.16     NO                    NO
 L0006256         0   0.15232E-03  731277.1 4054819.4    64.5     3.40     4.00
3.16     NO                    NO
 L0006257         0   0.15232E-03  731272.9 4054824.0    64.5     3.40     4.00
3.16     NO                    NO
 L0006258         0   0.15232E-03  731272.3 4054832.6    64.5     3.40     4.00
3.16     NO                    NO
 L0006259         0   0.15232E-03  731271.8 4054841.2    64.5     3.40     4.00
3.16     NO                    NO
 L0006260         0   0.15232E-03  731271.2 4054849.8    64.5     3.40     4.00
3.16     NO                    NO
 L0006261         0   0.15232E-03  731270.6 4054858.3    64.4     3.40     4.00
3.16     NO                    NO
 L0006262         0   0.15232E-03  731270.1 4054866.9    64.4     3.40     4.00
3.16     NO                    NO
 L0006263         0   0.15232E-03  731269.5 4054875.5    64.4     3.40     4.00
3.16     NO                    NO
 L0006264         0   0.15232E-03  731268.9 4054884.1    64.4     3.40     4.00
3.16     NO                    NO
 L0006265         0   0.15232E-03  731268.4 4054892.7    64.4     3.40     4.00
3.16     NO                    NO
 L0006266         0   0.15232E-03  731267.8 4054901.2    64.4     3.40     4.00
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3.16     NO                     NO
 L0006267         0   0.15232E-03  731267.3 4054909.8    64.4     3.40     4.00
3.16     NO                     NO
 L0006268         0   0.15232E-03  731266.7 4054918.4    64.4     3.40     4.00
3.16     NO                     NO
 L0006269         0   0.15232E-03  731266.1 4054927.0    64.4     3.40     4.00
3.16     NO                     NO
 L0006270         0   0.15232E-03  731265.6 4054935.6    64.4     3.40     4.00
3.16     NO                     NO
 L0006271         0   0.15232E-03  731265.0 4054944.2    64.4     3.40     4.00
3.16     NO                     NO
 L0006272         0   0.15232E-03  731264.4 4054952.7    64.4     3.40     4.00
3.16     NO                     NO
 L0006273         0   0.15232E-03  731263.9 4054961.3    64.4     3.40     4.00
3.16     NO                     NO
 L0006274         0   0.15232E-03  731263.3 4054969.9    64.3     3.40     4.00
3.16     NO                     NO
 L0006275         0   0.15232E-03  731262.8 4054978.5    64.3     3.40     4.00
3.16     NO                     NO
 L0006276         0   0.15232E-03  731262.2 4054987.1    64.3     3.40     4.00
3.16     NO                     NO
 L0006277         0   0.15232E-03  731261.6 4054995.6    64.2     3.40     4.00
3.16     NO                     NO
 L0006278         0   0.15232E-03  731261.1 4055004.2    64.2     3.40     4.00
3.16     NO                     NO
 L0006279         0   0.15232E-03  731260.5 4055012.8    64.2     3.40     4.00
3.16     NO                     NO
 L0006280         0   0.15232E-03  731259.9 4055021.4    64.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006281         0   0.15232E-03  731259.4 4055030.0    64.2     3.40     4.00
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3.16     NO                    NO
 L0006282         0   0.15232E-03  731258.8 4055038.5    64.2     3.40     4.00
3.16     NO                    NO
 L0006283         0   0.15232E-03  731258.3 4055047.1    64.2     3.40     4.00
3.16     NO                    NO
 L0006284         0   0.15232E-03  731257.7 4055055.7    64.2     3.40     4.00
3.16     NO                    NO
 L0006285         0   0.15232E-03  731257.1 4055064.3    64.2     3.40     4.00
3.16     NO                    NO
 L0006286         0   0.15232E-03  731256.6 4055072.9    64.2     3.40     4.00
3.16     NO                    NO
 L0006287         0   0.15232E-03  731256.0 4055081.5    64.2     3.40     4.00
3.16     NO                    NO
 L0006288         0   0.15232E-03  731255.4 4055090.0    64.2     3.40     4.00
3.16     NO                    NO
 L0006289         0   0.15232E-03  731254.9 4055098.6    64.1     3.40     4.00
3.16     NO                    NO
 L0006290         0   0.15232E-03  731254.3 4055107.2    64.1     3.40     4.00
3.16     NO                    NO
 L0006291         0   0.15232E-03  731253.8 4055115.8    64.1     3.40     4.00
3.16     NO                    NO
 L0006292         0   0.15232E-03  731253.2 4055124.4    64.1     3.40     4.00
3.16     NO                    NO
 L0006293         0   0.15232E-03  731252.6 4055132.9    64.1     3.40     4.00
3.16     NO                    NO
 L0006294         0   0.15232E-03  731252.1 4055141.5    64.1     3.40     4.00
3.16     NO                    NO
 L0006295         0   0.15232E-03  731251.5 4055150.1    64.1     3.40     4.00
3.16     NO                    NO
 L0006296         0   0.15232E-03  731250.9 4055158.7    64.1     3.40     4.00
3.16     NO                    NO
 L0006297         0   0.15232E-03  731250.4 4055167.3    64.1     3.40     4.00
3.16     NO                    NO
 L0006298         0   0.15232E-03  731249.8 4055175.9    64.2     3.40     4.00
3.16     NO                    NO
 L0006299         0   0.15232E-03  731249.2 4055184.4    64.2     3.40     4.00
3.16     NO                    NO
 L0006300         0   0.15232E-03  731248.7 4055193.0    64.2     3.40     4.00
3.16     NO                    NO
 L0006301         0   0.15232E-03  731248.1 4055201.6    64.2     3.40     4.00
3.16     NO                    NO
 L0006302         0   0.15232E-03  731247.6 4055210.2    64.2     3.40     4.00
3.16     NO                    NO
 L0006303         0   0.15232E-03  731247.0 4055218.8    64.2     3.40     4.00
3.16     NO                    NO
 L0006304         0   0.15232E-03  731246.4 4055227.3    64.2     3.40     4.00
3.16     NO                    NO
 L0006305         0   0.15232E-03  731245.9 4055235.9    64.2     3.40     4.00
3.16     NO                    NO
 L0006306         0   0.15232E-03  731245.3 4055244.5    64.2     3.40     4.00
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3.16 NO NO
L0006307 0 0.15232E-03 731244.7 4055253.1 64.2 3.40 4.00
3.16 NO NO
L0006308 0 0.15232E-03 731244.2 4055261.7 64.3 3.40 4.00
3.16 NO NO
L0006309 0 0.15232E-03 731243.6 4055270.3 64.3 3.40 4.00
3.16 NO NO
L0006310 0 0.15232E-03 731243.1 4055278.8 64.3 3.40 4.00
3.16 NO NO
L0006311 0 0.15232E-03 731242.5 4055287.4 64.3 3.40 4.00
3.16 NO NO
L0006312 0 0.15232E-03 731241.9 4055296.0 64.3 3.40 4.00
3.16 NO NO
L0006313 0 0.15232E-03 731241.4 4055304.6 64.3 3.40 4.00
3.16 NO NO
L0006314 0 0.15232E-03 731240.8 4055313.2 64.3 3.40 4.00
3.16 NO NO
L0006315 0 0.15232E-03 731240.2 4055321.7 64.3 3.40 4.00
3.16 NO NO
L0006316 0 0.15232E-03 731239.7 4055330.3 64.3 3.40 4.00
3.16 NO NO
L0006317 0 0.15232E-03 731239.1 4055338.9 64.3 3.40 4.00
3.16 NO NO
L0006318 0 0.15232E-03 731238.6 4055347.5 64.3 3.40 4.00
3.16 NO NO
L0006319 0 0.15232E-03 731246.7 4055348.4 64.3 3.40 4.00
3.16 NO NO
L0006320 0 0.15232E-03 731255.3 4055348.8 64.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0006321	0	0.15232E-03	731263.8	4055349.3	64.2	3.40	4.00			

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3.16     NO                    NO
 L0006322         0   0.15232E-03  731272.4 4055349.7    64.2     3.40     4.00
3.16     NO                    NO
 L0006323         0   0.15232E-03  731281.0 4055350.2    64.2     3.40     4.00
3.16     NO                    NO
 L0006324         0   0.15232E-03  731289.6 4055350.6    64.2     3.40     4.00
3.16     NO                    NO
 L0006325         0   0.15232E-03  731298.2 4055351.1    64.2     3.40     4.00
3.16     NO                    NO
 L0006326         0   0.15232E-03  731306.8 4055351.5    64.2     3.40     4.00
3.16     NO                    NO
 L0006327         0   0.15232E-03  731315.4 4055352.0    64.2     3.40     4.00
3.16     NO                    NO
 L0006328         0   0.15232E-03  731324.0 4055352.4    64.2     3.40     4.00
3.16     NO                    NO
 L0006329         0   0.15232E-03  731332.6 4055352.9    64.1     3.40     4.00
3.16     NO                    NO
 L0006330         0   0.15232E-03  731341.1 4055353.3    64.1     3.40     4.00
3.16     NO                    NO
 L0006331         0   0.15232E-03  731349.7 4055353.8    64.1     3.40     4.00
3.16     NO                    NO
 L0006332         0   0.15232E-03  731358.3 4055354.2    64.1     3.40     4.00
3.16     NO                    NO
 L0006333         0   0.15232E-03  731366.9 4055354.7    64.0     3.40     4.00
3.16     NO                    NO
 L0006334         0   0.15232E-03  731375.5 4055355.1    64.0     3.40     4.00
3.16     NO                    NO
 L0006335         0   0.15232E-03  731384.1 4055355.6    64.0     3.40     4.00
3.16     NO                    NO
 L0006336         0   0.15232E-03  731392.7 4055356.0    64.0     3.40     4.00
3.16     NO                    NO
 L0006337         0   0.15232E-03  731401.3 4055356.5    64.0     3.40     4.00
3.16     NO                    NO
 L0006338         0   0.15232E-03  731409.8 4055356.9    64.0     3.40     4.00
3.16     NO                    NO
 L0006339         0   0.15232E-03  731418.4 4055357.4    63.9     3.40     4.00
3.16     NO                    NO
 L0006340         0   0.15232E-03  731427.0 4055357.9    63.9     3.40     4.00
3.16     NO                    NO
 L0006341         0   0.15232E-03  731435.6 4055358.3    63.9     3.40     4.00
3.16     NO                    NO
 L0006342         0   0.15232E-03  731444.2 4055358.8    63.9     3.40     4.00
3.16     NO                    NO
 L0006343         0   0.15232E-03  731452.8 4055359.2    63.9     3.40     4.00
3.16     NO                    NO
 L0006344         0   0.15232E-03  731461.4 4055359.7    63.9     3.40     4.00
3.16     NO                    NO
 L0006345         0   0.15232E-03  731470.0 4055360.1    63.9     3.40     4.00
3.16     NO                    NO
 L0006346         0   0.15232E-03  731478.5 4055360.6    63.9     3.40     4.00
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3.16 NO NO
L0006347 0 0.15232E-03 731487.1 4055361.0 63.8 3.40 4.00
3.16 NO NO
L0006348 0 0.15232E-03 731495.7 4055361.5 63.8 3.40 4.00
3.16 NO NO
L0006349 0 0.15232E-03 731504.3 4055361.9 63.8 3.40 4.00
3.16 NO NO
L0006350 0 0.15232E-03 731512.9 4055362.4 63.8 3.40 4.00
3.16 NO NO
L0006351 0 0.15232E-03 731521.5 4055362.8 63.8 3.40 4.00
3.16 NO NO
L0006352 0 0.15232E-03 731530.1 4055363.3 63.8 3.40 4.00
3.16 NO NO
L0006353 0 0.15232E-03 731538.7 4055363.7 63.7 3.40 4.00
3.16 NO NO
L0006354 0 0.15232E-03 731547.3 4055364.2 63.7 3.40 4.00
3.16 NO NO
L0006355 0 0.15232E-03 731555.8 4055364.6 63.7 3.40 4.00
3.16 NO NO
L0006356 0 0.15232E-03 731564.4 4055365.1 63.7 3.40 4.00
3.16 NO NO
L0006357 0 0.15232E-03 731573.0 4055365.5 63.6 3.40 4.00
3.16 NO NO
L0006358 0 0.15232E-03 731581.6 4055366.0 63.6 3.40 4.00
3.16 NO NO
L0006359 0 0.15232E-03 731590.2 4055366.4 63.6 3.40 4.00
3.16 NO NO
L0006360 0 0.15232E-03 731598.8 4055366.9 63.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0006361	0	0.15232E-03	731607.4	4055367.3	63.6	3.40	4.00			

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3.16     NO                    NO
 L0006362         0   0.15232E-03  731616.0 4055367.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006363         0   0.15232E-03  731624.5 4055368.2    63.6     3.40     4.00
3.16     NO                    NO
 L0006364         0   0.15232E-03  731633.1 4055368.7    63.5     3.40     4.00
3.16     NO                    NO
 L0006365         0   0.15232E-03  731641.7 4055369.2    63.5     3.40     4.00
3.16     NO                    NO
 L0006366         0   0.15232E-03  731650.3 4055369.6    63.5     3.40     4.00
3.16     NO                    NO
 L0006367         0   0.15232E-03  731658.9 4055370.1    63.5     3.40     4.00
3.16     NO                    NO
 L0006368         0   0.15232E-03  731667.5 4055370.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006369         0   0.15232E-03  731676.1 4055371.0    63.4     3.40     4.00
3.16     NO                    NO
 L0006370         0   0.15232E-03  731684.7 4055371.4    63.4     3.40     4.00
3.16     NO                    NO
 L0006371         0   0.15232E-03  731693.3 4055371.9    63.4     3.40     4.00
3.16     NO                    NO
 L0006372         0   0.15232E-03  731701.8 4055372.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006373         0   0.15232E-03  731710.4 4055372.8    63.4     3.40     4.00
3.16     NO                    NO
 L0006374         0   0.15232E-03  731719.0 4055373.2    63.4     3.40     4.00
3.16     NO                    NO
 L0006375         0   0.15232E-03  731727.6 4055373.7    63.3     3.40     4.00
3.16     NO                    NO
 L0006376         0   0.15232E-03  731732.7 4055370.2    63.3     3.40     4.00
3.16     NO                    NO
 L0006377         0   0.15232E-03  731733.2 4055361.6    63.3     3.40     4.00
3.16     NO                    NO
 L0006378         0   0.15232E-03  731733.7 4055353.0    63.3     3.40     4.00
3.16     NO                    NO
 L0006379         0   0.15232E-03  731734.3 4055344.4    63.3     3.40     4.00
3.16     NO                    NO
 L0006380         0   0.15232E-03  731734.8 4055335.8    63.3     3.40     4.00
3.16     NO                    NO
 L0006381         0   0.15232E-03  731735.4 4055327.3    63.3     3.40     4.00
3.16     NO                    NO
 L0006382         0   0.15232E-03  731735.9 4055318.7    63.3     3.40     4.00
3.16     NO                    NO
 L0006383         0   0.15232E-03  731736.4 4055310.1    63.3     3.40     4.00
3.16     NO                    NO
 L0006384         0   0.15232E-03  731737.0 4055301.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006385         0   0.15232E-03  731737.5 4055292.9    63.2     3.40     4.00
3.16     NO                    NO
 L0006386         0   0.15232E-03  731738.0 4055284.3    63.2     3.40     4.00
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3.16 NO NO
L0006387 0 0.15232E-03 731738.6 4055275.8 63.2 3.40 4.00
3.16 NO NO
L0006388 0 0.15232E-03 731739.1 4055267.2 63.2 3.40 4.00
3.16 NO NO
L0006389 0 0.15232E-03 731739.6 4055258.6 63.2 3.40 4.00
3.16 NO NO
L0006390 0 0.15232E-03 731740.2 4055250.0 63.2 3.40 4.00
3.16 NO NO
L0006391 0 0.15232E-03 731740.7 4055241.4 63.2 3.40 4.00
3.16 NO NO
L0006392 0 0.15232E-03 731741.3 4055232.8 63.2 3.40 4.00
3.16 NO NO
L0006393 0 0.15232E-03 731741.8 4055224.3 63.2 3.40 4.00
3.16 NO NO
L0006394 0 0.15232E-03 731742.3 4055215.7 63.2 3.40 4.00
3.16 NO NO
L0006395 0 0.15232E-03 731742.9 4055207.1 63.2 3.40 4.00
3.16 NO NO
L0006396 0 0.15232E-03 731743.4 4055198.5 63.2 3.40 4.00
3.16 NO NO
L0006397 0 0.15232E-03 731743.9 4055189.9 63.2 3.40 4.00
3.16 NO NO
L0006398 0 0.15232E-03 731744.5 4055181.3 63.2 3.40 4.00
3.16 NO NO
L0006399 0 0.15232E-03 731745.0 4055172.8 63.2 3.40 4.00
3.16 NO NO
L0006400 0 0.15232E-03 731745.5 4055164.2 63.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0006401	0	0.15232E-03	731746.1	4055155.6	63.2	3.40	4.00			

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3.16     NO                    NO
 L0006402         0   0.15232E-03  731746.6 4055147.0    63.2     3.40     4.00
3.16     NO                    NO
 L0006403         0   0.15232E-03  731747.2 4055138.4    63.2     3.40     4.00
3.16     NO                    NO
 L0006404         0   0.15232E-03  731747.7 4055129.8    63.2     3.40     4.00
3.16     NO                    NO
 L0006405         0   0.15232E-03  731748.2 4055121.3    63.2     3.40     4.00
3.16     NO                    NO
 L0006406         0   0.15232E-03  731748.8 4055112.7    63.2     3.40     4.00
3.16     NO                    NO
 L0006407         0   0.15232E-03  731749.3 4055104.1    63.2     3.40     4.00
3.16     NO                    NO
 L0006408         0   0.15232E-03  731749.8 4055095.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006409         0   0.15232E-03  731750.4 4055086.9    63.1     3.40     4.00
3.16     NO                    NO
 L0006410         0   0.15232E-03  731750.9 4055078.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006411         0   0.15232E-03  731751.5 4055069.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006412         0   0.15232E-03  731752.0 4055061.2    63.1     3.40     4.00
3.16     NO                    NO
 L0006413         0   0.15232E-03  731752.5 4055052.6    63.1     3.40     4.00
3.16     NO                    NO
 L0006414         0   0.15232E-03  731753.1 4055044.0    63.1     3.40     4.00
3.16     NO                    NO
 L0006415         0   0.15232E-03  731753.6 4055035.4    63.1     3.40     4.00
3.16     NO                    NO
 L0006416         0   0.15232E-03  731754.1 4055026.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006417         0   0.15232E-03  731754.7 4055018.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006418         0   0.15232E-03  731755.2 4055009.7    63.1     3.40     4.00
3.16     NO                    NO
 L0006419         0   0.15232E-03  731755.7 4055001.1    63.1     3.40     4.00
3.16     NO                    NO
 L0006420         0   0.15232E-03  731756.3 4054992.5    63.1     3.40     4.00
3.16     NO                    NO
 L0006421         0   0.15232E-03  731756.8 4054983.9    63.1     3.40     4.00
3.16     NO                    NO
 L0006422         0   0.15232E-03  731757.4 4054975.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006423         0   0.15232E-03  731757.9 4054966.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006424         0   0.15232E-03  731758.4 4054958.2    63.1     3.40     4.00
3.16     NO                    NO
 L0006425         0   0.15232E-03  731750.0 4054957.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006426         0   0.15232E-03  731741.4 4054957.6    63.1     3.40     4.00
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3.16     NO                     NO
 L0006427         0   0.15232E-03  731732.8 4054957.4    63.1     3.40     4.00
3.16     NO                     NO
 L0006428         0   0.15232E-03  731724.2 4054957.2    63.1     3.40     4.00
3.16     NO                     NO
 L0006429         0   0.15232E-03  731715.6 4054957.0    63.2     3.40     4.00
3.16     NO                     NO
 L0006430         0   0.15232E-03  731707.0 4054956.8    63.2     3.40     4.00
3.16     NO                     NO
 L0006431         0   0.15232E-03  731698.4 4054956.6    63.2     3.40     4.00
3.16     NO                     NO
 L0006432         0   0.15232E-03  731689.8 4054956.4    63.2     3.40     4.00
3.16     NO                     NO
 L0006433         0   0.15232E-03  731681.2 4054956.2    63.2     3.40     4.00
3.16     NO                     NO
 L0006434         0   0.15232E-03  731672.6 4054956.1    63.2     3.40     4.00
3.16     NO                     NO
 L0006435         0   0.15232E-03  731664.0 4054955.9    63.2     3.40     4.00
3.16     NO                     NO
 L0006436         0   0.15232E-03  731655.4 4054955.7    63.2     3.40     4.00
3.16     NO                     NO
 L0006437         0   0.15232E-03  731646.8 4054955.5    63.2     3.40     4.00
3.16     NO                     NO
 L0006438         0   0.15232E-03  731638.2 4054955.3    63.3     3.40     4.00
3.16     NO                     NO
 L0006439         0   0.15232E-03  731629.6 4054955.1    63.3     3.40     4.00
3.16     NO                     NO
 L0006440         0   0.15232E-03  731621.0 4054954.9    63.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 163
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006441         0   0.15232E-03  731612.5 4054954.7    63.3     3.40     4.00
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3.16     NO                    NO
 L0006442         0   0.15232E-03  731603.9 4054954.5    63.3     3.40     4.00
3.16     NO                    NO
 L0006443         0   0.15232E-03  731595.3 4054954.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006444         0   0.15232E-03  731586.7 4054954.1    63.4     3.40     4.00
3.16     NO                    NO
 L0006445         0   0.15232E-03  731578.1 4054953.9    63.4     3.40     4.00
3.16     NO                    NO
 L0006446         0   0.15232E-03  731569.5 4054953.7    63.4     3.40     4.00
3.16     NO                    NO
 L0006447         0   0.15232E-03  731560.9 4054953.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006448         0   0.15232E-03  731552.3 4054953.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006449         0   0.15232E-03  731543.7 4054953.1    63.5     3.40     4.00
3.16     NO                    NO
 L0006450         0   0.15232E-03  731535.1 4054952.9    63.5     3.40     4.00
3.16     NO                    NO
 L0006451         0   0.15232E-03  731526.5 4054952.7    63.5     3.40     4.00
3.16     NO                    NO
 L0006452         0   0.15232E-03  731517.9 4054952.5    63.5     3.40     4.00
3.16     NO                    NO
 L0006453         0   0.15232E-03  731509.3 4054952.3    63.5     3.40     4.00
3.16     NO                    NO
 L0006454         0   0.15232E-03  731500.7 4054952.1    63.5     3.40     4.00
3.16     NO                    NO
 L0006455         0   0.15232E-03  731492.1 4054951.9    63.5     3.40     4.00
3.16     NO                    NO
 L0006456         0   0.15232E-03  731483.5 4054951.8    63.5     3.40     4.00
3.16     NO                    NO
 L0006457         0   0.15232E-03  731474.9 4054951.6    63.5     3.40     4.00
3.16     NO                    NO
 L0006458         0   0.15232E-03  731466.3 4054951.4    63.5     3.40     4.00
3.16     NO                    NO
 L0006459         0   0.15232E-03  731457.7 4054951.2    63.5     3.40     4.00
3.16     NO                    NO
 L0006460         0   0.15232E-03  731449.1 4054951.0    63.6     3.40     4.00
3.16     NO                    NO
 L0006461         0   0.15232E-03  731440.5 4054950.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006462         0   0.15232E-03  731431.9 4054950.6    63.6     3.40     4.00
3.16     NO                    NO
 L0006463         0   0.15232E-03  731423.3 4054950.4    63.6     3.40     4.00
3.16     NO                    NO
 L0006464         0   0.15232E-03  731414.7 4054950.2    63.7     3.40     4.00
3.16     NO                    NO
 L0006465         0   0.15232E-03  731406.1 4054950.0    63.7     3.40     4.00
3.16     NO                    NO
 L0006466         0   0.15232E-03  731397.5 4054949.8    63.7     3.40     4.00
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3.16     NO                     NO
 L0006467         0   0.15232E-03  731388.9 4054949.6    63.8     3.40     4.00
3.16     NO                     NO
 L0006468         0   0.15232E-03  731380.3 4054949.4    63.8     3.40     4.00
3.16     NO                     NO
 L0006469         0   0.15232E-03  731376.7 4054954.8    63.9     3.40     4.00
3.16     NO                     NO
 L0006470         0   0.15232E-03  731375.9 4054963.3    63.9     3.40     4.00
3.16     NO                     NO
 L0006471         0   0.15232E-03  731375.1 4054971.9    63.9     3.40     4.00
3.16     NO                     NO
 L0006472         0   0.15232E-03  731374.3 4054980.5    63.8     3.40     4.00
3.16     NO                     NO
 L0006473         0   0.15232E-03  731373.5 4054989.0    63.8     3.40     4.00
3.16     NO                     NO
 L0006474         0   0.15232E-03  731372.6 4054997.6    63.9     3.40     4.00
3.16     NO                     NO
 L0006475         0   0.15232E-03  731371.8 4055006.1    63.9     3.40     4.00
3.16     NO                     NO
 L0006476         0   0.15232E-03  731371.0 4055014.7    63.9     3.40     4.00
3.16     NO                     NO
 L0006477         0   0.15232E-03  731370.2 4055023.3    63.9     3.40     4.00
3.16     NO                     NO
 L0006478         0   0.15232E-03  731369.4 4055031.8    63.9     3.40     4.00
3.16     NO                     NO
 L0006479         0   0.15232E-03  731368.6 4055040.4    63.9     3.40     4.00
3.16     NO                     NO
 L0006480         0   0.15232E-03  731367.8 4055049.0    64.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 164
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006481         0   0.15232E-03  731367.0 4055057.5    64.0     3.40     4.00
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3.16     NO                    NO
 L0006482         0   0.15232E-03  731366.2 4055066.1    64.0     3.40     4.00
3.16     NO                    NO
 L0006483         0   0.15232E-03  731365.4 4055074.6    64.0     3.40     4.00
3.16     NO                    NO
 L0006484         0   0.15232E-03  731364.6 4055083.2    64.0     3.40     4.00
3.16     NO                    NO
 L0006485         0   0.15232E-03  731363.8 4055091.8    64.0     3.40     4.00
3.16     NO                    NO
 L0006486         0   0.15232E-03  731363.0 4055100.3    64.0     3.40     4.00
3.16     NO                    NO
 L0006487         0   0.15232E-03  731362.2 4055108.9    64.0     3.40     4.00
3.16     NO                    NO
 L0006488         0   0.15232E-03  731361.4 4055117.5    64.0     3.40     4.00
3.16     NO                    NO
 L0006489         0   0.15232E-03  731360.6 4055126.0    64.0     3.40     4.00
3.16     NO                    NO
 L0006490         0   0.15232E-03  731359.8 4055134.6    64.0     3.40     4.00
3.16     NO                    NO
 L0006491         0   0.15232E-03  731359.0 4055143.1    64.0     3.40     4.00
3.16     NO                    NO
 L0006492         0   0.15232E-03  731358.2 4055151.7    64.0     3.40     4.00
3.16     NO                    NO
 L0006493         0   0.15232E-03  731357.4 4055160.3    64.0     3.40     4.00
3.16     NO                    NO
 L0006494         0   0.15232E-03  731356.6 4055168.8    64.0     3.40     4.00
3.16     NO                    NO
 L0006495         0   0.15232E-03  731355.8 4055177.4    64.0     3.40     4.00
3.16     NO                    NO
 L0006496         0   0.15232E-03  731355.0 4055186.0    64.0     3.40     4.00
3.16     NO                    NO
 L0006497         0   0.15232E-03  731354.2 4055194.5    64.0     3.40     4.00
3.16     NO                    NO
 L0006498         0   0.15232E-03  731353.4 4055203.1    64.0     3.40     4.00
3.16     NO                    NO
 L0006499         0   0.15232E-03  731352.6 4055211.6    64.0     3.40     4.00
3.16     NO                    NO
 L0006500         0   0.15232E-03  731351.8 4055220.2    64.0     3.40     4.00
3.16     NO                    NO
 L0006501         0   0.15232E-03  731353.3 4055226.8    64.0     3.40     4.00
3.16     NO                    NO
 L0006502         0   0.15232E-03  731361.9 4055227.7    64.0     3.40     4.00
3.16     NO                    NO
 L0006503         0   0.15232E-03  731370.4 4055228.5    64.0     3.40     4.00
3.16     NO                    NO
 L0006504         0   0.15232E-03  731379.0 4055229.4    64.0     3.40     4.00
3.16     NO                    NO
 L0006505         0   0.15232E-03  731387.6 4055230.3    64.0     3.40     4.00
3.16     NO                    NO
 L0006506         0   0.15232E-03  731396.1 4055231.1    63.9     3.40     4.00
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3.16 NO NO
L0006507 0 0.15232E-03 731404.7 4055232.0 63.9 3.40 4.00
3.16 NO NO
L0006508 0 0.15232E-03 731413.2 4055232.8 63.9 3.40 4.00
3.16 NO NO
L0006509 0 0.15232E-03 731421.8 4055233.7 63.9 3.40 4.00
3.16 NO NO
L0006510 0 0.15232E-03 731430.3 4055234.5 63.9 3.40 4.00
3.16 NO NO
L0006511 0 0.15232E-03 731438.9 4055235.4 63.9 3.40 4.00
3.16 NO NO
L0006512 0 0.15232E-03 731447.5 4055236.2 63.8 3.40 4.00
3.16 NO NO
L0006513 0 0.15232E-03 731456.0 4055237.1 63.8 3.40 4.00
3.16 NO NO
L0006514 0 0.15232E-03 731464.6 4055238.0 63.8 3.40 4.00
3.16 NO NO
L0006515 0 0.15232E-03 731473.1 4055238.8 63.8 3.40 4.00
3.16 NO NO
L0006516 0 0.15232E-03 731481.7 4055239.7 63.8 3.40 4.00
3.16 NO NO
L0006517 0 0.15232E-03 731490.2 4055240.5 63.8 3.40 4.00
3.16 NO NO
L0006518 0 0.15232E-03 731498.8 4055241.4 63.7 3.40 4.00
3.16 NO NO
L0006519 0 0.15232E-03 731507.4 4055242.2 63.7 3.40 4.00
3.16 NO NO
L0006520 0 0.15232E-03 731515.9 4055243.1 63.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0006521	0	0.15232E-03	731524.5	4055244.0	63.7	3.40	4.00			

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3.16     NO                    NO
 L0006522         0   0.15232E-03  731533.0 4055244.8    63.7     3.40     4.00
3.16     NO                    NO
 L0006523         0   0.15232E-03  731541.6 4055245.7    63.6     3.40     4.00
3.16     NO                    NO
 L0006524         0   0.15232E-03  731550.1 4055246.5    63.6     3.40     4.00
3.16     NO                    NO
 L0006525         0   0.15232E-03  731558.7 4055247.4    63.6     3.40     4.00
3.16     NO                    NO
 L0006526         0   0.15232E-03  731567.3 4055248.2    63.6     3.40     4.00
3.16     NO                    NO
 L0006527         0   0.15232E-03  731575.8 4055249.1    63.6     3.40     4.00
3.16     NO                    NO
 L0006528         0   0.15232E-03  731584.4 4055249.9    63.6     3.40     4.00
3.16     NO                    NO
 L0006529         0   0.15232E-03  731592.9 4055250.8    63.5     3.40     4.00
3.16     NO                    NO
 L0006530         0   0.15232E-03  731601.5 4055251.7    63.5     3.40     4.00
3.16     NO                    NO
 L0006531         0   0.15232E-03  731610.0 4055252.5    63.5     3.40     4.00
3.16     NO                    NO
 L0006532         0   0.15232E-03  731612.4 4055245.2    63.5     3.40     4.00
3.16     NO                    NO
 L0006533         0   0.15232E-03  731613.9 4055236.8    63.5     3.40     4.00
3.16     NO                    NO
 L0006534         0   0.15232E-03  731615.4 4055228.3    63.5     3.40     4.00
3.16     NO                    NO
 L0006535         0   0.15232E-03  731616.9 4055219.8    63.5     3.40     4.00
3.16     NO                    NO
 L0006536         0   0.15232E-03  731618.4 4055211.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006537         0   0.15232E-03  731619.9 4055202.9    63.4     3.40     4.00
3.16     NO                    NO
 L0006538         0   0.15232E-03  731621.4 4055194.4    63.4     3.40     4.00
3.16     NO                    NO
 L0006539         0   0.15232E-03  731622.9 4055185.9    63.4     3.40     4.00
3.16     NO                    NO
 L0006540         0   0.15232E-03  731624.4 4055177.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006541         0   0.15232E-03  731625.9 4055169.0    63.4     3.40     4.00
3.16     NO                    NO
 L0006542         0   0.15232E-03  731627.4 4055160.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006543         0   0.15232E-03  731628.9 4055152.1    63.4     3.40     4.00
3.16     NO                    NO
 L0006544         0   0.15232E-03  731630.4 4055143.6    63.4     3.40     4.00
3.16     NO                    NO
 L0006545         0   0.15232E-03  731631.9 4055135.1    63.4     3.40     4.00
3.16     NO                    NO
 L0006546         0   0.15232E-03  731633.4 4055126.7    63.4     3.40     4.00
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3.16   NO   NO
 L0006547   0   0.15232E-03 731634.9 4055118.2   63.4   3.40   4.00
3.16   NO   NO
 L0006548   0   0.15232E-03 731636.3 4055109.7   63.4   3.40   4.00
3.16   NO   NO
 L0006549   0   0.15232E-03 731633.0 4055104.8   63.4   3.40   4.00
3.16   NO   NO
 L0006550   0   0.15232E-03 731624.5 4055103.8   63.4   3.40   4.00
3.16   NO   NO
 L0006551   0   0.15232E-03 731615.9 4055102.8   63.4   3.40   4.00
3.16   NO   NO
 L0006552   0   0.15232E-03 731607.4 4055101.8   63.4   3.40   4.00
3.16   NO   NO
 L0006553   0   0.15232E-03 731598.9 4055100.8   63.4   3.40   4.00
3.16   NO   NO
 L0006554   0   0.15232E-03 731590.3 4055099.8   63.5   3.40   4.00
3.16   NO   NO
 L0006555   0   0.15232E-03 731581.8 4055098.8   63.5   3.40   4.00
3.16   NO   NO
 L0006556   0   0.15232E-03 731573.2 4055097.8   63.5   3.40   4.00
3.16   NO   NO
 L0006557   0   0.15232E-03 731564.7 4055096.8   63.5   3.40   4.00
3.16   NO   NO
 L0006558   0   0.15232E-03 731556.2 4055095.8   63.5   3.40   4.00
3.16   NO   NO
 L0006559   0   0.15232E-03 731547.6 4055094.8   63.5   3.40   4.00
3.16   NO   NO
 L0006560   0   0.15232E-03 731539.1 4055093.8   63.6   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0006561   0   0.15232E-03 731530.5 4055092.8   63.6   3.40   4.00

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3.16     NO                    NO
 L0006562         0   0.15232E-03  731522.0 4055091.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006563         0   0.15232E-03  731513.5 4055090.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006564         0   0.15232E-03  731504.9 4055089.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006565         0   0.15232E-03  731496.4 4055088.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006566         0   0.28653E-02  731180.1 4054708.8    64.8     3.40     4.00
3.16     NO                    NO
 L0006567         0   0.28653E-02  731180.3 4054700.2    64.8     3.40     4.00
3.16     NO                    NO
 L0006568         0   0.28653E-02  731180.5 4054691.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006569         0   0.28653E-02  731180.7 4054683.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006570         0   0.28653E-02  731180.9 4054674.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006571         0   0.28653E-02  731181.1 4054665.9    64.8     3.40     4.00
3.16     NO                    NO
 L0006572         0   0.28653E-02  731181.3 4054657.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006573         0   0.28653E-02  731181.5 4054648.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006574         0   0.28653E-02  731181.7 4054640.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006575         0   0.28653E-02  731182.0 4054631.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006576         0   0.28653E-02  731182.2 4054622.9    64.8     3.40     4.00
3.16     NO                    NO
 L0006577         0   0.28653E-02  731182.4 4054614.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006578         0   0.28653E-02  731182.6 4054605.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006579         0   0.28653E-02  731182.8 4054597.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006580         0   0.28653E-02  731183.0 4054588.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006581         0   0.28653E-02  731183.2 4054579.9    64.8     3.40     4.00
3.16     NO                    NO
 L0006582         0   0.28653E-02  731183.4 4054571.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006583         0   0.28653E-02  731183.6 4054562.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006584         0   0.28653E-02  731183.8 4054554.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006585         0   0.28653E-02  731184.0 4054545.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006586         0   0.28653E-02  731184.2 4054536.9    64.8     3.40     4.00
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3.16 NO NO
L0006587 0 0.28653E-02 731184.4 4054528.3 64.8 3.40 4.00
3.16 NO NO
L0006588 0 0.28653E-02 731184.7 4054519.7 64.8 3.40 4.00
3.16 NO NO
L0006589 0 0.28653E-02 731184.9 4054511.1 64.8 3.40 4.00
3.16 NO NO
L0006590 0 0.28653E-02 731185.1 4054502.5 64.8 3.40 4.00
3.16 NO NO
L0006591 0 0.28653E-02 731185.3 4054493.9 64.8 3.40 4.00
3.16 NO NO
L0006592 0 0.28653E-02 731185.5 4054485.3 64.8 3.40 4.00
3.16 NO NO
L0006593 0 0.28653E-02 731185.7 4054476.7 64.8 3.40 4.00
3.16 NO NO
L0006594 0 0.28653E-02 731185.9 4054468.1 64.8 3.40 4.00
3.16 NO NO
L0006595 0 0.28653E-02 731186.1 4054459.5 64.8 3.40 4.00
3.16 NO NO
L0006596 0 0.28653E-02 731186.3 4054450.9 64.8 3.40 4.00
3.16 NO NO
L0006597 0 0.28653E-02 731186.5 4054442.3 64.8 3.40 4.00
3.16 NO NO
L0006598 0 0.28653E-02 731186.7 4054433.7 64.8 3.40 4.00
3.16 NO NO
L0006599 0 0.28653E-02 731186.9 4054425.1 64.8 3.40 4.00
3.16 NO NO
L0006600 0 0.28653E-02 731187.1 4054416.5 64.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0006601	0	0.28653E-02	731187.4	4054407.9	64.8	3.40	4.00			

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3.16     NO                    NO
 L0006602         0   0.28653E-02  731187.6 4054399.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006603         0   0.28653E-02  731187.8 4054390.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006604         0   0.28653E-02  731188.0 4054382.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006605         0   0.28653E-02  731188.2 4054373.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006606         0   0.28653E-02  731188.4 4054364.9    64.8     3.40     4.00
3.16     NO                    NO
 L0006607         0   0.28653E-02  731188.6 4054356.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006608         0   0.28653E-02  731188.8 4054347.8    64.8     3.40     4.00
3.16     NO                    NO
 L0006609         0   0.28653E-02  731189.0 4054339.2    64.8     3.40     4.00
3.16     NO                    NO
 L0006610         0   0.28653E-02  731189.2 4054330.6    64.8     3.40     4.00
3.16     NO                    NO
 L0006611         0   0.28653E-02  731189.4 4054322.0    64.8     3.40     4.00
3.16     NO                    NO
 L0006612         0   0.28653E-02  731189.6 4054313.4    64.8     3.40     4.00
3.16     NO                    NO
 L0006613         0   0.28653E-02  731189.8 4054304.8    64.8     3.40     4.00
3.16     NO                    NO
 L0006614         0   0.28653E-02  731190.0 4054296.2    64.8     3.40     4.00
3.16     NO                    NO
 L0006615         0   0.28653E-02  731190.3 4054287.6    64.8     3.40     4.00
3.16     NO                    NO
 L0006616         0   0.28653E-02  731190.5 4054279.0    64.8     3.40     4.00
3.16     NO                    NO
 L0006617         0   0.28653E-02  731190.7 4054270.4    64.8     3.40     4.00
3.16     NO                    NO
 L0006618         0   0.28653E-02  731190.9 4054261.8    64.8     3.40     4.00
3.16     NO                    NO
 L0006619         0   0.28653E-02  731191.1 4054253.2    64.8     3.40     4.00
3.16     NO                    NO
 L0006620         0   0.28653E-02  731191.3 4054244.6    64.8     3.40     4.00
3.16     NO                    NO
 L0006621         0   0.28653E-02  731191.5 4054236.0    64.8     3.40     4.00
3.16     NO                    NO
 L0006622         0   0.28653E-02  731191.7 4054227.4    64.8     3.40     4.00
3.16     NO                    NO
 L0006623         0   0.28653E-02  731191.9 4054218.8    64.9     3.40     4.00
3.16     NO                    NO
 L0006624         0   0.28653E-02  731192.1 4054210.2    64.9     3.40     4.00
3.16     NO                    NO
 L0006625         0   0.28653E-02  731192.3 4054201.6    64.9     3.40     4.00
3.16     NO                    NO
 L0006626         0   0.28653E-02  731192.5 4054193.0    64.9     3.40     4.00
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3.16   NO   NO
 L0006627   0   0.28653E-02 731192.7 4054184.4   64.9   3.40   4.00
3.16   NO   NO
 L0006628   0   0.28653E-02 731193.0 4054175.8   64.9   3.40   4.00
3.16   NO   NO
 L0006629   0   0.28653E-02 731193.2 4054167.2   64.9   3.40   4.00
3.16   NO   NO
 L0006630   0   0.28653E-02 731193.4 4054158.6   64.9   3.40   4.00
3.16   NO   NO
 L0006631   0   0.28653E-02 731193.6 4054150.0   65.0   3.40   4.00
3.16   NO   NO
 L0006632   0   0.28653E-02 731193.8 4054141.4   65.0   3.40   4.00
3.16   NO   NO
 L0006633   0   0.28653E-02 731194.0 4054132.8   65.0   3.40   4.00
3.16   NO   NO
 L0006634   0   0.28653E-02 731194.2 4054124.2   65.0   3.40   4.00
3.16   NO   NO
 L0006635   0   0.28653E-02 731194.4 4054115.6   65.0   3.40   4.00
3.16   NO   NO
 L0006636   0   0.28653E-02 731194.6 4054107.0   65.0   3.40   4.00
3.16   NO   NO
 L0006637   0   0.28653E-02 731194.8 4054098.4   65.0   3.40   4.00
3.16   NO   NO
 L0006638   0   0.28653E-02 731195.0 4054089.8   65.0   3.40   4.00
3.16   NO   NO
 L0006639   0   0.28653E-02 731195.2 4054081.2   65.0   3.40   4.00
3.16   NO   NO
 L0006640   0   0.28653E-02 731195.4 4054072.6   65.0   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0006641   0   0.28653E-02 731195.7 4054064.0   65.0   3.40   4.00

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3.16     NO                    NO
 L0006642         0   0.28653E-02  731195.9 4054055.4    64.9     3.40     4.00
3.16     NO                    NO
 L0006643         0   0.28653E-02  731196.1 4054046.8    64.9     3.40     4.00
3.16     NO                    NO
 L0006644         0   0.28653E-02  731196.3 4054038.2    64.9     3.40     4.00
3.16     NO                    NO
 L0006645         0   0.28653E-02  731196.5 4054029.6    64.9     3.40     4.00
3.16     NO                    NO
 L0006646         0   0.28653E-02  731196.7 4054021.0    64.9     3.40     4.00
3.16     NO                    NO
 L0006647         0   0.28653E-02  731196.9 4054012.4    64.9     3.40     4.00
3.16     NO                    NO
 L0006648         0   0.28653E-02  731197.1 4054003.9    64.9     3.40     4.00
3.16     NO                    NO
 L0006649         0   0.28653E-02  731197.3 4053995.3    64.9     3.40     4.00
3.16     NO                    NO
 L0006650         0   0.28653E-02  731197.5 4053986.7    65.0     3.40     4.00
3.16     NO                    NO
 L0006651         0   0.28653E-02  731197.7 4053978.1    65.0     3.40     4.00
3.16     NO                    NO
 L0006652         0   0.28653E-02  731197.9 4053969.5    65.0     3.40     4.00
3.16     NO                    NO
 L0006653         0   0.28653E-02  731198.1 4053960.9    65.0     3.40     4.00
3.16     NO                    NO
 L0006654         0   0.28653E-02  731198.3 4053952.3    65.1     3.40     4.00
3.16     NO                    NO
 L0006655         0   0.28653E-02  731198.6 4053943.7    65.1     3.40     4.00
3.16     NO                    NO
 L0006656         0   0.28653E-02  731198.8 4053935.1    65.1     3.40     4.00
3.16     NO                    NO
 L0006657         0   0.28653E-02  731199.0 4053926.5    65.2     3.40     4.00
3.16     NO                    NO
 L0006658         0   0.28653E-02  731199.2 4053917.9    65.2     3.40     4.00
3.16     NO                    NO
 L0006659         0   0.28653E-02  731199.4 4053909.3    65.2     3.40     4.00
3.16     NO                    NO
 L0006660         0   0.28653E-02  731199.6 4053900.7    65.2     3.40     4.00
3.16     NO                    NO
 L0006661         0   0.28653E-02  731199.8 4053892.1    65.3     3.40     4.00
3.16     NO                    NO
 L0006662         0   0.28653E-02  731200.0 4053883.5    65.3     3.40     4.00
3.16     NO                    NO
 L0006663         0   0.28653E-02  731200.2 4053874.9    65.3     3.40     4.00
3.16     NO                    NO
 L0006664         0   0.28653E-02  731200.4 4053866.3    65.3     3.40     4.00
3.16     NO                    NO
 L0006665         0   0.28653E-02  731200.6 4053857.7    65.3     3.40     4.00
3.16     NO                    NO
 L0006666         0   0.28653E-02  731200.8 4053849.1    65.3     3.40     4.00
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3.16     NO                     NO
 L0006667         0   0.28653E-02  731201.0 4053840.5    65.4     3.40     4.00
3.16     NO                     NO
 L0006668         0   0.28653E-02  731201.3 4053831.9    65.4     3.40     4.00
3.16     NO                     NO
 L0006669         0   0.28653E-02  731201.5 4053823.3    65.4     3.40     4.00
3.16     NO                     NO
 L0006670         0   0.28653E-02  731201.7 4053814.7    65.5     3.40     4.00
3.16     NO                     NO
 L0006671         0   0.28653E-02  731201.9 4053806.1    65.5     3.40     4.00
3.16     NO                     NO
 L0006672         0   0.28653E-02  731202.1 4053797.5    65.5     3.40     4.00
3.16     NO                     NO
 L0006673         0   0.28653E-02  731202.3 4053788.9    65.5     3.40     4.00
3.16     NO                     NO
 L0006674         0   0.28653E-02  731202.5 4053780.3    65.6     3.40     4.00
3.16     NO                     NO
 L0006675         0   0.28653E-02  731202.7 4053771.7    65.6     3.40     4.00
3.16     NO                     NO
 L0006676         0   0.28653E-02  731202.9 4053763.1    65.6     3.40     4.00
3.16     NO                     NO
 L0006677         0   0.28653E-02  731203.1 4053754.5    65.6     3.40     4.00
3.16     NO                     NO
 L0006678         0   0.28653E-02  731203.3 4053745.9    65.7     3.40     4.00
3.16     NO                     NO
 L0006679         0   0.28653E-02  731203.5 4053737.3    65.7     3.40     4.00
3.16     NO                     NO
 L0006680         0   0.28653E-02  731203.7 4053728.7    65.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0006681         0   0.28653E-02  731204.0 4053720.1    65.8     3.40     4.00
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3.16     NO                    NO
 L0006682         0   0.28653E-02  731204.2 4053711.5    65.8     3.40     4.00
3.16     NO                    NO
 L0006683         0   0.28653E-02  731204.4 4053702.9    65.8     3.40     4.00
3.16     NO                    NO
 L0006684         0   0.28653E-02  731204.6 4053694.3    65.8     3.40     4.00
3.16     NO                    NO
 L0006685         0   0.28653E-02  731204.8 4053685.7    65.8     3.40     4.00
3.16     NO                    NO
 L0006686         0   0.28653E-02  731205.0 4053677.1    65.8     3.40     4.00
3.16     NO                    NO
 L0006687         0   0.28653E-02  731205.2 4053668.5    65.8     3.40     4.00
3.16     NO                    NO
 L0006688         0   0.28653E-02  731205.4 4053660.0    65.9     3.40     4.00
3.16     NO                    NO
 L0006689         0   0.28653E-02  731205.6 4053651.4    65.9     3.40     4.00
3.16     NO                    NO
 L0006690         0   0.28653E-02  731205.8 4053642.8    65.9     3.40     4.00
3.16     NO                    NO
 L0006691         0   0.28653E-02  731206.0 4053634.2    65.9     3.40     4.00
3.16     NO                    NO
 L0006692         0   0.28653E-02  731206.2 4053625.6    65.9     3.40     4.00
3.16     NO                    NO
 L0006693         0   0.28653E-02  731206.4 4053617.0    65.9     3.40     4.00
3.16     NO                    NO
 L0006694         0   0.28653E-02  731206.7 4053608.4    66.0     3.40     4.00
3.16     NO                    NO
 L0006695         0   0.28653E-02  731206.9 4053599.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006696         0   0.28653E-02  731207.1 4053591.2    66.0     3.40     4.00
3.16     NO                    NO
 L0006697         0   0.28653E-02  731207.3 4053582.6    66.0     3.40     4.00
3.16     NO                    NO
 L0006698         0   0.28653E-02  731207.5 4053574.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006699         0   0.28653E-02  731207.7 4053565.4    66.0     3.40     4.00
3.16     NO                    NO
 L0006700         0   0.28653E-02  731207.9 4053556.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006701         0   0.28653E-02  731208.1 4053548.2    66.1     3.40     4.00
3.16     NO                    NO
 L0006702         0   0.28653E-02  731208.3 4053539.6    66.1     3.40     4.00
3.16     NO                    NO
 L0006703         0   0.28653E-02  731208.5 4053531.0    66.1     3.40     4.00
3.16     NO                    NO
 L0006704         0   0.28653E-02  731208.7 4053522.4    66.1     3.40     4.00
3.16     NO                    NO
 L0006705         0   0.28653E-02  731208.9 4053513.8    66.1     3.40     4.00
3.16     NO                    NO
 L0006706         0   0.28653E-02  731209.1 4053505.2    66.1     3.40     4.00
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3.16 NO NO
L0006707 0 0.28653E-02 731209.3 4053496.6 66.1 3.40 4.00
3.16 NO NO
L0006708 0 0.28653E-02 731209.6 4053488.0 66.2 3.40 4.00
3.16 NO NO
L0006709 0 0.28653E-02 731209.8 4053479.4 66.2 3.40 4.00
3.16 NO NO
L0006710 0 0.28653E-02 731210.0 4053470.8 66.2 3.40 4.00
3.16 NO NO
L0006711 0 0.28653E-02 731210.2 4053462.2 66.2 3.40 4.00
3.16 NO NO
L0006712 0 0.28653E-02 731210.4 4053453.6 66.2 3.40 4.00
3.16 NO NO
L0006713 0 0.28653E-02 731210.6 4053445.0 66.2 3.40 4.00
3.16 NO NO
L0006714 0 0.28653E-02 731210.8 4053436.4 66.2 3.40 4.00
3.16 NO NO
L0006715 0 0.28653E-02 731211.0 4053427.8 66.2 3.40 4.00
3.16 NO NO
L0006716 0 0.28653E-02 731211.2 4053419.2 66.2 3.40 4.00
3.16 NO NO
L0006717 0 0.28653E-02 731211.4 4053410.6 66.3 3.40 4.00
3.16 NO NO
L0006718 0 0.28653E-02 731211.6 4053402.0 66.3 3.40 4.00
3.16 NO NO
L0006719 0 0.28653E-02 731211.8 4053393.4 66.3 3.40 4.00
3.16 NO NO
L0006720 0 0.28653E-02 731212.0 4053384.8 66.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0006721	0	0.28653E-02	731212.3	4053376.2	66.3	3.40	4.00			

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3.16     NO                    NO
 L0006722         0   0.28653E-02  731212.5 4053367.6    66.3     3.40     4.00
3.16     NO                    NO
 L0006723         0   0.28653E-02  731212.7 4053359.0    66.3     3.40     4.00
3.16     NO                    NO
 L0006724         0   0.28653E-02  731212.9 4053350.4    66.3     3.40     4.00
3.16     NO                    NO
 L0006725         0   0.28653E-02  731213.1 4053341.8    66.3     3.40     4.00
3.16     NO                    NO
 L0006726         0   0.28653E-02  731213.3 4053333.2    66.4     3.40     4.00
3.16     NO                    NO
 L0006727         0   0.28653E-02  731213.5 4053324.6    66.4     3.40     4.00
3.16     NO                    NO
 L0006728         0   0.28653E-02  731213.7 4053316.1    66.4     3.40     4.00
3.16     NO                    NO
 L0006729         0   0.28653E-02  731213.9 4053307.5    66.4     3.40     4.00
3.16     NO                    NO
 L0006730         0   0.28653E-02  731214.1 4053298.9    66.4     3.40     4.00
3.16     NO                    NO
 L0006731         0   0.28653E-02  731214.3 4053290.3    66.5     3.40     4.00
3.16     NO                    NO
 L0006732         0   0.28653E-02  731214.5 4053281.7    66.5     3.40     4.00
3.16     NO                    NO
 L0006733         0   0.28653E-02  731214.7 4053273.1    66.5     3.40     4.00
3.16     NO                    NO
 L0006734         0   0.28653E-02  731215.0 4053264.5    66.5     3.40     4.00
3.16     NO                    NO
 L0006735         0   0.28653E-02  731215.2 4053255.9    66.6     3.40     4.00
3.16     NO                    NO
 L0006736         0   0.28653E-02  731215.4 4053247.3    66.6     3.40     4.00
3.16     NO                    NO
 L0006737         0   0.28653E-02  731215.6 4053238.7    66.6     3.40     4.00
3.16     NO                    NO
 L0006738         0   0.28653E-02  731215.8 4053230.1    66.6     3.40     4.00
3.16     NO                    NO
 L0006739         0   0.28653E-02  731216.0 4053221.5    66.6     3.40     4.00
3.16     NO                    NO
 L0006740         0   0.28653E-02  731216.2 4053212.9    66.6     3.40     4.00
3.16     NO                    NO
 L0006741         0   0.28653E-02  731216.4 4053204.3    66.7     3.40     4.00
3.16     NO                    NO
 L0006742         0   0.28653E-02  731216.6 4053195.7    66.7     3.40     4.00
3.16     NO                    NO
 L0006743         0   0.28653E-02  731216.8 4053187.1    66.7     3.40     4.00
3.16     NO                    NO
 L0006744         0   0.28653E-02  731217.0 4053178.5    66.7     3.40     4.00
3.16     NO                    NO
 L0006745         0   0.28653E-02  731217.2 4053169.9    66.8     3.40     4.00
3.16     NO                    NO
 L0006746         0   0.28653E-02  731217.4 4053161.3    66.8     3.40     4.00
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3.16 NO NO
L0006747 0 0.28653E-02 731217.6 4053152.7 66.8 3.40 4.00
3.16 NO NO
L0006748 0 0.28653E-02 731217.9 4053144.1 66.8 3.40 4.00
3.16 NO NO
L0006749 0 0.28653E-02 731218.1 4053135.5 66.9 3.40 4.00
3.16 NO NO
L0006750 0 0.28653E-02 731218.3 4053126.9 66.9 3.40 4.00
3.16 NO NO
L0006751 0 0.28653E-02 731218.5 4053118.3 66.9 3.40 4.00
3.16 NO NO
L0006752 0 0.28653E-02 731218.7 4053109.7 67.0 3.40 4.00
3.16 NO NO
L0006753 0 0.28653E-02 731218.9 4053101.1 67.0 3.40 4.00
3.16 NO NO
L0006754 0 0.28653E-02 731219.1 4053092.5 67.0 3.40 4.00
3.16 NO NO
L0006755 0 0.28653E-02 731219.3 4053083.9 67.0 3.40 4.00
3.16 NO NO
L0006756 0 0.28653E-02 731219.5 4053075.3 67.0 3.40 4.00
3.16 NO NO
L0006757 0 0.28653E-02 731219.7 4053066.7 67.1 3.40 4.00
3.16 NO NO
L0006758 0 0.28653E-02 731219.9 4053058.1 67.1 3.40 4.00
3.16 NO NO
L0006759 0 0.28653E-02 731220.1 4053049.5 67.1 3.40 4.00
3.16 NO NO
L0006760 0 0.28653E-02 731220.3 4053040.9 67.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0006761	0	0.28653E-02	731220.6	4053032.3	67.2	3.40	4.00				

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3.16     NO                    NO
 L0006762         0   0.28653E-02  731220.8 4053023.7    67.2     3.40     4.00
3.16     NO                    NO
 L0006763         0   0.28653E-02  731221.0 4053015.1    67.2     3.40     4.00
3.16     NO                    NO
 L0006764         0   0.28653E-02  731221.2 4053006.5    67.2     3.40     4.00
3.16     NO                    NO
 L0006765         0   0.28653E-02  731221.4 4052997.9    67.3     3.40     4.00
3.16     NO                    NO
 L0006766         0   0.28653E-02  731221.6 4052989.3    67.3     3.40     4.00
3.16     NO                    NO
 L0006767         0   0.28653E-02  731221.8 4052980.8    67.3     3.40     4.00
3.16     NO                    NO
 L0006768         0   0.28653E-02  731222.0 4052972.2    67.3     3.40     4.00
3.16     NO                    NO
 L0006769         0   0.28653E-02  731222.2 4052963.6    67.4     3.40     4.00
3.16     NO                    NO
 L0006770         0   0.28653E-02  731222.4 4052955.0    67.4     3.40     4.00
3.16     NO                    NO
 L0006771         0   0.28653E-02  731222.6 4052946.4    67.4     3.40     4.00
3.16     NO                    NO
 L0006772         0   0.28653E-02  731222.8 4052937.8    67.5     3.40     4.00
3.16     NO                    NO
 L0006773         0   0.28653E-02  731223.0 4052929.2    67.5     3.40     4.00
3.16     NO                    NO
 L0006774         0   0.28653E-02  731223.3 4052920.6    67.5     3.40     4.00
3.16     NO                    NO
 L0006775         0   0.28653E-02  731223.5 4052912.0    67.5     3.40     4.00
3.16     NO                    NO
 L0006776         0   0.28653E-02  731223.7 4052903.4    67.6     3.40     4.00
3.16     NO                    NO
 L0006777         0   0.28653E-02  731223.9 4052894.8    67.6     3.40     4.00
3.16     NO                    NO
 L0006778         0   0.28653E-02  731224.1 4052886.2    67.6     3.40     4.00
3.16     NO                    NO
 L0006779         0   0.28653E-02  731224.3 4052877.6    67.6     3.40     4.00
3.16     NO                    NO
 L0006780         0   0.28653E-02  731224.5 4052869.0    67.7     3.40     4.00
3.16     NO                    NO
 L0006781         0   0.28653E-02  731224.7 4052860.4    67.7     3.40     4.00
3.16     NO                    NO
 L0006782         0   0.28653E-02  731224.9 4052851.8    67.7     3.40     4.00
3.16     NO                    NO
 L0006783         0   0.28653E-02  731225.1 4052843.2    67.7     3.40     4.00
3.16     NO                    NO
 L0006784         0   0.28653E-02  731226.2 4052835.5    67.7     3.40     4.00
3.16     NO                    NO
 L0006785         0   0.28653E-02  731234.8 4052835.6    67.7     3.40     4.00
3.16     NO                    NO
 L0006786         0   0.28653E-02  731243.4 4052835.7    67.7     3.40     4.00
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3.16     NO                     NO
 L0006787         0   0.28653E-02  731252.0 4052835.8    67.7     3.40     4.00
3.16     NO                     NO
 L0006788         0   0.28653E-02  731260.6 4052835.9    67.7     3.40     4.00
3.16     NO                     NO
 L0006789         0   0.28653E-02  731269.2 4052836.0    67.7     3.40     4.00
3.16     NO                     NO
 L0006790         0   0.28653E-02  731277.8 4052836.1    67.6     3.40     4.00
3.16     NO                     NO
 L0006791         0   0.28653E-02  731286.4 4052836.2    67.6     3.40     4.00
3.16     NO                     NO
 L0006792         0   0.28653E-02  731295.0 4052836.3    67.6     3.40     4.00
3.16     NO                     NO
 L0006793         0   0.28653E-02  731303.6 4052836.4    67.6     3.40     4.00
3.16     NO                     NO
 L0006794         0   0.28653E-02  731312.2 4052836.5    67.6     3.40     4.00
3.16     NO                     NO
 L0006795         0   0.28653E-02  731320.8 4052836.6    67.6     3.40     4.00
3.16     NO                     NO
 L0006796         0   0.28653E-02  731329.4 4052836.8    67.5     3.40     4.00
3.16     NO                     NO
 L0006797         0   0.28653E-02  731338.0 4052836.9    67.5     3.40     4.00
3.16     NO                     NO
 L0006798         0   0.28653E-02  731346.6 4052837.0    67.5     3.40     4.00
3.16     NO                     NO
 L0006799         0   0.28653E-02  731355.2 4052837.1    67.5     3.40     4.00
3.16     NO                     NO
 L0006800         0   0.28653E-02  731363.8 4052837.2    67.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006801         0   0.28653E-02  731372.4 4052837.3    67.5     3.40     4.00
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3.16     NO                    NO
 L0006802         0   0.28653E-02  731381.0 4052837.4    67.4     3.40     4.00
3.16     NO                    NO
 L0006803         0   0.28653E-02  731389.6 4052837.5    67.4     3.40     4.00
3.16     NO                    NO
 L0006804         0   0.28653E-02  731398.2 4052837.6    67.4     3.40     4.00
3.16     NO                    NO
 L0006805         0   0.28653E-02  731406.8 4052837.7    67.4     3.40     4.00
3.16     NO                    NO
 L0006806         0   0.28653E-02  731415.4 4052837.8    67.4     3.40     4.00
3.16     NO                    NO
 L0006807         0   0.28653E-02  731424.0 4052837.9    67.3     3.40     4.00
3.16     NO                    NO
 L0006808         0   0.28653E-02  731432.6 4052838.0    67.3     3.40     4.00
3.16     NO                    NO
 L0006809         0   0.28653E-02  731441.2 4052838.1    67.3     3.40     4.00
3.16     NO                    NO
 L0006810         0   0.28653E-02  731449.8 4052838.2    67.3     3.40     4.00
3.16     NO                    NO
 L0006811         0   0.28653E-02  731458.4 4052838.3    67.3     3.40     4.00
3.16     NO                    NO
 L0006812         0   0.28653E-02  731467.0 4052838.4    67.3     3.40     4.00
3.16     NO                    NO
 L0006813         0   0.28653E-02  731475.6 4052838.5    67.2     3.40     4.00
3.16     NO                    NO
 L0006814         0   0.28653E-02  731484.2 4052838.6    67.2     3.40     4.00
3.16     NO                    NO
 L0006815         0   0.28653E-02  731492.8 4052838.7    67.2     3.40     4.00
3.16     NO                    NO
 L0006816         0   0.28653E-02  731501.4 4052838.8    67.1     3.40     4.00
3.16     NO                    NO
 L0006817         0   0.28653E-02  731510.0 4052838.9    67.1     3.40     4.00
3.16     NO                    NO
 L0006818         0   0.28653E-02  731518.6 4052839.0    67.1     3.40     4.00
3.16     NO                    NO
 L0006819         0   0.28653E-02  731527.2 4052839.1    67.1     3.40     4.00
3.16     NO                    NO
 L0006820         0   0.28653E-02  731535.8 4052839.2    67.1     3.40     4.00
3.16     NO                    NO
 L0006821         0   0.28653E-02  731544.4 4052839.3    67.1     3.40     4.00
3.16     NO                    NO
 L0006822         0   0.28653E-02  731553.0 4052839.4    67.0     3.40     4.00
3.16     NO                    NO
 L0006823         0   0.28653E-02  731561.6 4052839.5    67.0     3.40     4.00
3.16     NO                    NO
 L0006824         0   0.28653E-02  731570.2 4052839.7    67.0     3.40     4.00
3.16     NO                    NO
 L0006825         0   0.28653E-02  731578.8 4052839.8    67.0     3.40     4.00
3.16     NO                    NO
 L0006826         0   0.28653E-02  731587.4 4052839.9    67.0     3.40     4.00
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3.16   NO   NO
 L0006827   0   0.28653E-02 731596.0 4052840.0   67.0   3.40   4.00
3.16   NO   NO
 L0006828   0   0.28653E-02 731604.6 4052840.1   66.9   3.40   4.00
3.16   NO   NO
 L0006829   0   0.28653E-02 731613.2 4052840.2   66.9   3.40   4.00
3.16   NO   NO
 L0006830   0   0.28653E-02 731621.8 4052840.3   66.9   3.40   4.00
3.16   NO   NO
 L0006831   0   0.28653E-02 731630.4 4052840.4   66.8   3.40   4.00
3.16   NO   NO
 L0006832   0   0.28653E-02 731639.0 4052840.5   66.8   3.40   4.00
3.16   NO   NO
 L0006833   0   0.28653E-02 731647.6 4052840.6   66.8   3.40   4.00
3.16   NO   NO
 L0006834   0   0.28653E-02 731656.2 4052840.7   66.8   3.40   4.00
3.16   NO   NO
 L0006835   0   0.28653E-02 731664.8 4052840.8   66.8   3.40   4.00
3.16   NO   NO
 L0006836   0   0.28653E-02 731673.4 4052840.9   66.8   3.40   4.00
3.16   NO   NO
 L0006837   0   0.28653E-02 731682.0 4052841.0   66.7   3.40   4.00
3.16   NO   NO
 L0006838   0   0.28653E-02 731690.6 4052841.1   66.7   3.40   4.00
3.16   NO   NO
 L0006839   0   0.28653E-02 731699.2 4052841.2   66.7   3.40   4.00
3.16   NO   NO
 L0006840   0   0.28653E-02 731707.8 4052841.3   66.7   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0006841   0   0.28653E-02 731716.4 4052841.4   66.6   3.40   4.00

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3.16     NO                    NO
 L0006842         0   0.28653E-02  731725.0 4052841.5    66.6     3.40     4.00
3.16     NO                    NO
 L0006843         0   0.28653E-02  731733.6 4052841.6    66.6     3.40     4.00
3.16     NO                    NO
 L0006844         0   0.28653E-02  731742.2 4052841.7    66.6     3.40     4.00
3.16     NO                    NO
 L0006845         0   0.28653E-02  731750.8 4052841.8    66.5     3.40     4.00
3.16     NO                    NO
 L0006846         0   0.28653E-02  731759.4 4052841.9    66.5     3.40     4.00
3.16     NO                    NO
 L0006847         0   0.28653E-02  731768.0 4052842.0    66.5     3.40     4.00
3.16     NO                    NO
 L0006848         0   0.28653E-02  731776.6 4052842.1    66.5     3.40     4.00
3.16     NO                    NO
 L0006849         0   0.28653E-02  731785.2 4052842.2    66.5     3.40     4.00
3.16     NO                    NO
 L0006850         0   0.28653E-02  731793.8 4052842.3    66.5     3.40     4.00
3.16     NO                    NO
 L0006851         0   0.28653E-02  731802.4 4052842.4    66.5     3.40     4.00
3.16     NO                    NO
 L0006852         0   0.28653E-02  731811.0 4052842.6    66.4     3.40     4.00
3.16     NO                    NO
 L0006853         0   0.28653E-02  731819.6 4052842.7    66.4     3.40     4.00
3.16     NO                    NO
 L0006854         0   0.28653E-02  731828.2 4052842.8    66.4     3.40     4.00
3.16     NO                    NO
 L0006855         0   0.28653E-02  731836.8 4052842.9    66.3     3.40     4.00
3.16     NO                    NO
 L0006856         0   0.28653E-02  731845.4 4052843.0    66.3     3.40     4.00
3.16     NO                    NO
 L0006857         0   0.28653E-02  731854.0 4052843.1    66.3     3.40     4.00
3.16     NO                    NO
 L0006858         0   0.28653E-02  731862.6 4052843.2    66.3     3.40     4.00
3.16     NO                    NO
 L0006859         0   0.28653E-02  731871.2 4052843.3    66.3     3.40     4.00
3.16     NO                    NO
 L0006860         0   0.28653E-02  731879.8 4052843.4    66.3     3.40     4.00
3.16     NO                    NO
 L0006861         0   0.28653E-02  731888.4 4052843.5    66.3     3.40     4.00
3.16     NO                    NO
 L0006862         0   0.28653E-02  731897.0 4052843.6    66.3     3.40     4.00
3.16     NO                    NO
 L0006863         0   0.28653E-02  731905.6 4052843.7    66.2     3.40     4.00
3.16     NO                    NO
 L0006864         0   0.28653E-02  731914.2 4052843.8    66.2     3.40     4.00
3.16     NO                    NO
 L0006865         0   0.28653E-02  731922.8 4052843.9    66.2     3.40     4.00
3.16     NO                    NO
 L0006866         0   0.28653E-02  731931.4 4052844.0    66.2     3.40     4.00
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3.16     NO                     NO
 L0006867         0   0.28653E-02  731940.0 4052844.1    66.3     3.40     4.00
3.16     NO                     NO
 L0006868         0   0.28653E-02  731948.6 4052844.2    66.3     3.40     4.00
3.16     NO                     NO
 L0006869         0   0.28653E-02  731957.2 4052844.3    66.3     3.40     4.00
3.16     NO                     NO
 L0006870         0   0.28653E-02  731965.8 4052844.4    66.3     3.40     4.00
3.16     NO                     NO
 L0006871         0   0.28653E-02  731974.4 4052844.5    66.3     3.40     4.00
3.16     NO                     NO
 L0006872         0   0.28653E-02  731983.0 4052844.6    66.3     3.40     4.00
3.16     NO                     NO
 L0006873         0   0.28653E-02  731991.6 4052844.7    66.3     3.40     4.00
3.16     NO                     NO
 L0006874         0   0.28653E-02  732000.2 4052844.8    66.3     3.40     4.00
3.16     NO                     NO
 L0006875         0   0.28653E-02  732008.8 4052844.9    66.2     3.40     4.00
3.16     NO                     NO
 L0006876         0   0.28653E-02  732017.4 4052845.0    66.2     3.40     4.00
3.16     NO                     NO
 L0006877         0   0.28653E-02  732026.0 4052845.1    66.2     3.40     4.00
3.16     NO                     NO
 L0006878         0   0.28653E-02  732034.6 4052845.2    66.2     3.40     4.00
3.16     NO                     NO
 L0006879         0   0.28653E-02  732043.2 4052845.4    66.1     3.40     4.00
3.16     NO                     NO
 L0006880         0   0.28653E-02  732051.8 4052845.5    66.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 174
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006881         0   0.28653E-02  732060.3 4052845.6    66.1     3.40     4.00
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3.16     NO                    NO
 L0006882         0   0.28653E-02  732068.9 4052845.7    66.1     3.40     4.00
3.16     NO                    NO
 L0006883         0   0.28653E-02  732077.5 4052845.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006884         0   0.28653E-02  732086.1 4052845.9    66.0     3.40     4.00
3.16     NO                    NO
 L0006885         0   0.28653E-02  732094.7 4052846.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006886         0   0.28653E-02  732103.3 4052846.1    66.0     3.40     4.00
3.16     NO                    NO
 L0006887         0   0.28653E-02  732111.9 4052846.2    65.9     3.40     4.00
3.16     NO                    NO
 L0006888         0   0.28653E-02  732120.5 4052846.3    65.9     3.40     4.00
3.16     NO                    NO
 L0006889         0   0.28653E-02  732129.1 4052846.4    65.9     3.40     4.00
3.16     NO                    NO
 L0006890         0   0.28653E-02  732137.7 4052846.5    65.9     3.40     4.00
3.16     NO                    NO
 L0006891         0   0.28653E-02  732146.3 4052846.6    65.9     3.40     4.00
3.16     NO                    NO
 L0006892         0   0.28653E-02  732154.9 4052846.7    65.8     3.40     4.00
3.16     NO                    NO
 L0006893         0   0.28653E-02  732163.5 4052846.8    65.8     3.40     4.00
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 L0006894         0   0.28653E-02  732172.1 4052846.9    65.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0006896         0   0.28653E-02  732189.3 4052847.1    65.8     3.40     4.00
3.16     NO                    NO
 L0006897         0   0.28653E-02  732197.9 4052847.2    65.8     3.40     4.00
3.16     NO                    NO
 L0006898         0   0.28653E-02  732206.5 4052847.3    65.8     3.40     4.00
3.16     NO                    NO
 L0006899         0   0.28653E-02  732215.1 4052847.4    65.8     3.40     4.00
3.16     NO                    NO
 L0006900         0   0.28653E-02  732223.7 4052847.5    65.8     3.40     4.00
3.16     NO                    NO
 L0006901         0   0.28653E-02  732232.3 4052847.6    65.7     3.40     4.00
3.16     NO                    NO
 L0006902         0   0.28653E-02  732240.9 4052847.7    65.7     3.40     4.00
3.16     NO                    NO
 L0006903         0   0.28653E-02  732249.5 4052847.8    65.7     3.40     4.00
3.16     NO                    NO
 L0006904         0   0.28653E-02  732258.1 4052847.9    65.7     3.40     4.00
3.16     NO                    NO
 L0006905         0   0.28653E-02  732266.7 4052848.0    65.6     3.40     4.00
3.16     NO                    NO
 L0006906         0   0.28653E-02  732275.3 4052848.1    65.6     3.40     4.00
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3.16 NO NO
L0006907 0 0.28653E-02 732283.9 4052848.3 65.6 3.40 4.00
3.16 NO NO
L0006908 0 0.28653E-02 732292.5 4052848.4 65.6 3.40 4.00
3.16 NO NO
L0006909 0 0.28653E-02 732300.1 4052847.4 65.6 3.40 4.00
3.16 NO NO
L0006910 0 0.28653E-02 732300.1 4052838.8 65.6 3.40 4.00
3.16 NO NO
L0006911 0 0.28653E-02 732300.1 4052830.2 65.6 3.40 4.00
3.16 NO NO
L0006912 0 0.28653E-02 732300.1 4052821.6 65.7 3.40 4.00
3.16 NO NO
L0006913 0 0.28653E-02 732300.1 4052813.0 65.7 3.40 4.00
3.16 NO NO
L0006914 0 0.28653E-02 732300.1 4052804.4 65.7 3.40 4.00
3.16 NO NO
L0006915 0 0.77519E-02 732270.1 4052814.6 65.8 3.40 4.00
3.16 NO NO
L0006916 0 0.77519E-02 732270.7 4052806.0 65.8 3.40 4.00
3.16 NO NO
L0006917 0 0.77519E-02 732271.4 4052797.4 65.8 3.40 4.00
3.16 NO NO
L0006918 0 0.77519E-02 732272.0 4052788.8 65.8 3.40 4.00
3.16 NO NO
L0006919 0 0.77519E-02 732272.7 4052780.3 65.9 3.40 4.00
3.16 NO NO
L0006920 0 0.77519E-02 732273.3 4052771.7 65.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0006921	0	0.77519E-02	732273.9	4052763.1	65.9	3.40	4.00			

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3.16     NO                    NO
 L0006922         0   0.77519E-02  732274.6 4052754.5    65.9     3.40     4.00
3.16     NO                    NO
 L0006923         0   0.77519E-02  732275.2 4052746.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006924         0   0.77519E-02  732275.8 4052737.4    66.0     3.40     4.00
3.16     NO                    NO
 L0006925         0   0.77519E-02  732276.5 4052728.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006926         0   0.77519E-02  732277.1 4052720.2    66.0     3.40     4.00
3.16     NO                    NO
 L0006927         0   0.77519E-02  732277.7 4052711.6    66.1     3.40     4.00
3.16     NO                    NO
 L0006928         0   0.77519E-02  732278.4 4052703.1    66.1     3.40     4.00
3.16     NO                    NO
 L0006929         0   0.77519E-02  732279.0 4052694.5    66.1     3.40     4.00
3.16     NO                    NO
 L0006930         0   0.77519E-02  732279.6 4052685.9    66.2     3.40     4.00
3.16     NO                    NO
 L0006931         0   0.77519E-02  732284.9 4052682.5    66.2     3.40     4.00
3.16     NO                    NO
 L0006932         0   0.77519E-02  732293.5 4052682.7    66.2     3.40     4.00
3.16     NO                    NO
 L0006933         0   0.77519E-02  732302.1 4052683.0    66.1     3.40     4.00
3.16     NO                    NO
 L0006934         0   0.77519E-02  732310.7 4052683.2    66.1     3.40     4.00
3.16     NO                    NO
 L0006935         0   0.77519E-02  732319.3 4052683.5    66.1     3.40     4.00
3.16     NO                    NO
 L0006936         0   0.77519E-02  732327.9 4052683.7    66.1     3.40     4.00
3.16     NO                    NO
 L0006937         0   0.77519E-02  732336.5 4052684.0    66.1     3.40     4.00
3.16     NO                    NO
 L0006938         0   0.77519E-02  732345.1 4052684.2    66.1     3.40     4.00
3.16     NO                    NO
 L0006939         0   0.77519E-02  732353.6 4052684.5    66.0     3.40     4.00
3.16     NO                    NO
 L0006940         0   0.77519E-02  732362.2 4052684.7    66.0     3.40     4.00
3.16     NO                    NO
 L0006941         0   0.77519E-02  732370.8 4052685.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006942         0   0.77519E-02  732378.9 4052685.7    66.0     3.40     4.00
3.16     NO                    NO
 L0006943         0   0.77519E-02  732378.2 4052694.3    66.0     3.40     4.00
3.16     NO                    NO
 L0006944         0   0.77519E-02  732377.6 4052702.8    65.9     3.40     4.00
3.16     NO                    NO
 L0006945         0   0.77519E-02  732376.9 4052711.4    65.9     3.40     4.00
3.16     NO                    NO
 L0006946         0   0.77519E-02  732376.3 4052720.0    65.9     3.40     4.00
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3.16 NO NO
L0006947 0 0.77519E-02 732375.6 4052728.6 65.9 3.40 4.00
3.16 NO NO
L0006948 0 0.77519E-02 732375.0 4052737.1 65.8 3.40 4.00
3.16 NO NO
L0006949 0 0.77519E-02 732374.3 4052745.7 65.8 3.40 4.00
3.16 NO NO
L0006950 0 0.77519E-02 732373.6 4052754.3 65.8 3.40 4.00
3.16 NO NO
L0006951 0 0.77519E-02 732373.0 4052762.9 65.8 3.40 4.00
3.16 NO NO
L0006952 0 0.77519E-02 732372.3 4052771.4 65.7 3.40 4.00
3.16 NO NO
L0006953 0 0.77519E-02 732371.7 4052780.0 65.7 3.40 4.00
3.16 NO NO
L0006954 0 0.77519E-02 732371.0 4052788.6 65.7 3.40 4.00
3.16 NO NO
L0006955 0 0.77519E-02 732370.4 4052797.2 65.6 3.40 4.00
3.16 NO NO
L0006956 0 0.77519E-02 732369.7 4052805.7 65.6 3.40 4.00
3.16 NO NO
L0006957 0 0.77519E-02 732369.0 4052814.3 65.6 3.40 4.00
3.16 NO NO
L0006958 0 0.77519E-02 732368.4 4052822.9 65.5 3.40 4.00
3.16 NO NO
L0006959 0 0.77519E-02 732360.1 4052822.7 65.5 3.40 4.00
3.16 NO NO
L0006960 0 0.77519E-02 732351.5 4052822.3 65.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0006961	0	0.77519E-02	732342.9	4052821.8	65.6	3.40	4.00				

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3.16     NO                    NO
 L0006962         0   0.77519E-02  732334.3 4052821.4    65.6     3.40     4.00
3.16     NO                    NO
 L0006963         0   0.77519E-02  732325.7 4052820.9    65.6     3.40     4.00
3.16     NO                    NO
 L0006964         0   0.77519E-02  732317.1 4052820.5    65.6     3.40     4.00
3.16     NO                    NO
 L0006965         0   0.77519E-02  732308.5 4052820.0    65.6     3.40     4.00
3.16     NO                    NO
 L0006966         0   0.77519E-02  732299.9 4052819.6    65.7     3.40     4.00
3.16     NO                    NO
 L0006967         0   0.77519E-02  732291.4 4052819.2    65.7     3.40     4.00
3.16     NO                    NO
 L0006968         0   0.77519E-02  732285.9 4052816.0    65.7     3.40     4.00
3.16     NO                    NO
 L0006969         0   0.77519E-02  732286.5 4052807.4    65.8     3.40     4.00
3.16     NO                    NO
 L0006970         0   0.77519E-02  732287.2 4052798.8    65.8     3.40     4.00
3.16     NO                    NO
 L0006971         0   0.77519E-02  732287.8 4052790.2    65.8     3.40     4.00
3.16     NO                    NO
 L0006972         0   0.77519E-02  732288.4 4052781.7    65.8     3.40     4.00
3.16     NO                    NO
 L0006973         0   0.77519E-02  732289.1 4052773.1    65.8     3.40     4.00
3.16     NO                    NO
 L0006974         0   0.77519E-02  732289.7 4052764.5    65.9     3.40     4.00
3.16     NO                    NO
 L0006975         0   0.77519E-02  732290.4 4052755.9    65.9     3.40     4.00
3.16     NO                    NO
 L0006976         0   0.77519E-02  732291.0 4052747.3    65.9     3.40     4.00
3.16     NO                    NO
 L0006977         0   0.77519E-02  732291.6 4052738.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006978         0   0.77519E-02  732292.3 4052730.2    66.0     3.40     4.00
3.16     NO                    NO
 L0006979         0   0.77519E-02  732292.9 4052721.6    66.0     3.40     4.00
3.16     NO                    NO
 L0006980         0   0.77519E-02  732293.5 4052713.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006981         0   0.77519E-02  732294.2 4052704.5    66.1     3.40     4.00
3.16     NO                    NO
 L0006982         0   0.77519E-02  732295.2 4052696.3    66.1     3.40     4.00
3.16     NO                    NO
 L0006983         0   0.77519E-02  732303.8 4052696.6    66.1     3.40     4.00
3.16     NO                    NO
 L0006984         0   0.77519E-02  732312.3 4052697.0    66.1     3.40     4.00
3.16     NO                    NO
 L0006985         0   0.77519E-02  732320.9 4052697.4    66.1     3.40     4.00
3.16     NO                    NO
 L0006986         0   0.77519E-02  732329.5 4052697.7    66.1     3.40     4.00
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3.16 NO NO
L0006987 0 0.77519E-02 732338.1 4052698.1 66.0 3.40 4.00
3.16 NO NO
L0006988 0 0.77519E-02 732346.7 4052698.4 66.0 3.40 4.00
3.16 NO NO
L0006989 0 0.77519E-02 732355.3 4052698.8 66.0 3.40 4.00
3.16 NO NO
L0006990 0 0.77519E-02 732363.0 4052700.0 66.0 3.40 4.00
3.16 NO NO
L0006991 0 0.77519E-02 732362.2 4052708.5 65.9 3.40 4.00
3.16 NO NO
L0006992 0 0.77519E-02 732361.3 4052717.1 65.9 3.40 4.00
3.16 NO NO
L0006993 0 0.77519E-02 732360.5 4052725.6 65.9 3.40 4.00
3.16 NO NO
L0006994 0 0.77519E-02 732359.7 4052734.2 65.8 3.40 4.00
3.16 NO NO
L0006995 0 0.77519E-02 732358.8 4052742.8 65.8 3.40 4.00
3.16 NO NO
L0006996 0 0.77519E-02 732358.0 4052751.3 65.8 3.40 4.00
3.16 NO NO
L0006997 0 0.77519E-02 732357.2 4052759.9 65.8 3.40 4.00
3.16 NO NO
L0006998 0 0.77519E-02 732356.4 4052768.4 65.7 3.40 4.00
3.16 NO NO
L0006999 0 0.77519E-02 732355.5 4052777.0 65.7 3.40 4.00
3.16 NO NO
L0007000 0 0.77519E-02 732354.7 4052785.6 65.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0007001	0	0.77519E-02	732353.9	4052794.1	65.6	3.40	4.00			

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3.16     NO                    NO
 L0007002         0   0.77519E-02  732353.0 4052802.7    65.6     3.40     4.00
3.16     NO                    NO
 L0007003         0   0.77519E-02  732349.5 4052808.1    65.6     3.40     4.00
3.16     NO                    NO
 L0007004         0   0.77519E-02  732340.9 4052807.6    65.6     3.40     4.00
3.16     NO                    NO
 L0007005         0   0.77519E-02  732332.3 4052807.1    65.7     3.40     4.00
3.16     NO                    NO
 L0007006         0   0.77519E-02  732323.8 4052806.6    65.7     3.40     4.00
3.16     NO                    NO
 L0007007         0   0.77519E-02  732315.2 4052806.1    65.7     3.40     4.00
3.16     NO                    NO
 L0007008         0   0.77519E-02  732306.6 4052805.6    65.7     3.40     4.00
3.16     NO                    NO
 L0007009         0   0.77519E-02  732302.8 4052800.9    65.7     3.40     4.00
3.16     NO                    NO
 L0007010         0   0.77519E-02  732303.3 4052792.3    65.8     3.40     4.00
3.16     NO                    NO
 L0007011         0   0.77519E-02  732303.8 4052783.7    65.8     3.40     4.00
3.16     NO                    NO
 L0007012         0   0.77519E-02  732304.3 4052775.1    65.8     3.40     4.00
3.16     NO                    NO
 L0007013         0   0.77519E-02  732304.9 4052766.6    65.8     3.40     4.00
3.16     NO                    NO
 L0007014         0   0.77519E-02  732305.4 4052758.0    65.8     3.40     4.00
3.16     NO                    NO
 L0007015         0   0.77519E-02  732305.9 4052749.4    65.9     3.40     4.00
3.16     NO                    NO
 L0007016         0   0.77519E-02  732306.4 4052740.8    65.9     3.40     4.00
3.16     NO                    NO
 L0007017         0   0.77519E-02  732307.0 4052732.2    65.9     3.40     4.00
3.16     NO                    NO
 L0007018         0   0.77519E-02  732307.5 4052723.6    66.0     3.40     4.00
3.16     NO                    NO
 L0007019         0   0.77519E-02  732308.0 4052715.1    66.0     3.40     4.00
3.16     NO                    NO
 L0007020         0   0.77519E-02  732312.9 4052711.3    66.0     3.40     4.00
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 L0007023         0   0.77519E-02  732338.7 4052711.9    66.0     3.40     4.00
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3.16     NO                    NO
 L0007025         0   0.77519E-02  732346.2 4052720.8    65.9     3.40     4.00
3.16     NO                    NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
L0007037 0 0.77519E-02 732318.5 4052786.8 65.8 3.40 4.00
3.16 NO NO
L0007038 0 0.77519E-02 732319.2 4052778.2 65.8 3.40 4.00
3.16 NO NO
L0007039 0 0.77519E-02 732319.9 4052769.6 65.8 3.40 4.00
3.16 NO NO
L0007040 0 0.77519E-02 732320.5 4052761.1 65.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0007041	0	0.77519E-02	732321.2	4052752.5	65.9	3.40	4.00			

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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L0000022   , L0000023   , L0000024   ,

              L0000025   , L0000026   , L0000027   , L0000028   , L0000029   ,
L0000030   , L0000031   , L0000032   ,

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L0000046   , L0000047   , L0000048   ,

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L0000078   , L0000079   , L0000080   ,

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0000478    , L0000479    , L0000480    ,
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0000705 , L0000706 , L0000707 , L0000708 , L0000709 , L0000710 , L0000711 , L0000712 ,
	L0000713 , L0000714 , L0000715 , L0000716 , L0000717 , L0000718 , L0000719 , L0000720 ,
	L0000721 , L0000722 , L0000723 , L0000724 , L0000725 , L0000726 , L0000727 , L0000728 ,
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L0000798    , L0000799    , L0000800    ,
 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 184
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0001641 , L0001642 , L0001643 , L0001644 , L0001645 , L0001646 , L0001647 , L0001648 ,
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	L0001697 , L0001698 , L0001699 , L0001700 , L0001701 , L0001702 , L0001703 , L0001704 ,
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L0001726   , L0001727   , L0001728   ,

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L0001758   , L0001759   , L0001760   ,

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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             L0001793   , L0001794   , L0001795   , L0001796   , L0001797   ,
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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0001993 , L0001994 , L0001995 , L0001996 , L0001997 , L0001998 , L0001999 , L0002000 ,
	L0002001 , L0002002 , L0002003 , L0002004 , L0002005 , L0002006 , L0002007 , L0002008 ,
	L0002009 , L0002010 , L0002011 , L0002012 , L0002013 , L0002014 , L0002015 , L0002016 ,
	L0002017 , L0002018 , L0002019 , L0002020 , L0002021 , L0002022 , L0002023 , L0002024 ,
	L0002025 , L0002026 , L0002027 , L0002028 , L0002029 , L0002030 , L0002031 , L0002032 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0002113 , L0002114 , L0002115 , L0002116 , L0002117 ,
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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 197
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***       10:07:44

                                  PAGE 199
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 201
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 203
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 205
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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                                   PAGE 209
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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                                   PAGE 218
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 220
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***
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SRCGROUP ID	SOURCE IDs
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↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***        10:07:44

                                  PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


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L0006987 , L0006988 , L0006989 , L0006990 , L0006991 ,
L0006992 , L0006993 , L0006994 ,

L0006995 , L0006996 , L0006997 , L0006998 , L0006999 ,
L0007000 , L0007001 , L0007002 ,

L0007003 , L0007004 , L0007005 , L0007006 , L0007007 ,
L0007008 , L0007009 , L0007010 ,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0007035 , L0007036 , L0007037 , L0007038 , L0007039 , L0007040 , L0007041 , L0007042 ,
	L0007043 ,
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	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
	L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
	L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
	L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,

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L0000062    , L0000063    , L0000064    ,

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L0000070    , L0000071    , L0000072    ,

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L0000078    , L0000079    , L0000080    ,

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L0000086    , L0000087    , L0000088    ,

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L0000094    , L0000095    , L0000096    ,

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L0000110    , L0000111    , L0000112    ,

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L0000126    , L0000127    , L0000128    ,

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L0000134    , L0000135    , L0000136    ,

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
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                                  PAGE 224
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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L0000166    , L0000167    , L0000168    ,

             L0000169    , L0000170    , L0000171    , L0000172    , L0000173    ,
L0000174    , L0000175    , L0000176    ,

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L0000190    , L0000191    , L0000192    ,

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L0000222    , L0000223    , L0000224    ,

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L0000270    , L0000271    , L0000272    ,

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0000334 , L0000335 , L0000336 ,

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L0000382 , L0000383 , L0000384 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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L0000486 , L0000487 , L0000488 ,

L0000489 , L0000490 , L0000491 , L0000492 , L0000493 ,
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L0000497 , L0000498 , L0000499 , L0000500 , L0000501 ,
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L0000534 , L0000535 , L0000536 ,

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L0000566 , L0000567 , L0000568 ,

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L0000574 , L0000575 , L0000576 ,

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L0000614   , L0000615   , L0000616   ,

             L0000617   , L0000618   , L0000619   , L0000620   , L0000621   ,
L0000622   , L0000623   , L0000624   ,

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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L0000638   , L0000639   , L0000640   ,

             L0000641   , L0000642   , L0000643   , L0000644   , L0000645   ,
L0000646   , L0000647   , L0000648   ,

             L0000649   , L0000650   , L0000651   , L0000652   , L0000653   ,
L0000654   , L0000655   , L0000656   ,

             L0000657   , L0000658   , L0000659   , L0000660   , L0000661   ,
L0000662   , L0000663   , L0000664   ,

             L0000665   , L0000666   , L0000667   , L0000668   , L0000669   ,
L0000670   , L0000671   , L0000672   ,

             L0000673   , L0000674   , L0000675   , L0000676   , L0000677   ,
L0000678   , L0000679   , L0000680   ,

             L0000681   , L0000682   , L0000683   , L0000684   , L0000685   ,
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L0000694   , L0000695   , L0000696   ,

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L0000702   , L0000703   , L0000704   ,

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L0000758    , L0000759    , L0000760    ,

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L0000766    , L0000767    , L0000768    ,

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


             L0000785    , L0000786    , L0000787    , L0000788    , L0000789    ,
L0000790    , L0000791    , L0000792    ,

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L0000798    , L0000799    , L0000800    ,

             L0000801    , L0000802    , L0000803    , L0000804    , L0000805    ,
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L0000806    , L0000807    , L0000808    ,

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L0000854    , L0000855    , L0000856    ,

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L0000862    , L0000863    , L0000864    ,

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L0000870    , L0000871    , L0000872    ,

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L0000878    , L0000879    , L0000880    ,

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L0000886    , L0000887    , L0000888    ,

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L0000894    , L0000895    , L0000896    ,

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L0000902    , L0000903    , L0000904    ,

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0001609 , L0001610 , L0001611 , L0001612 , L0001613 , L0001614 , L0001615 , L0001616 ,
	L0001617 , L0001618 , L0001619 , L0001620 , L0001621 , L0001622 , L0001623 , L0001624 ,
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	L0001633 , L0001634 , L0001635 , L0001636 , L0001637 , L0001638 , L0001639 , L0001640 ,
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                   PAGE 243
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***        10:07:44

                                  PAGE 245
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 251
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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                                  PAGE 253
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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                                  PAGE 257
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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                                  PAGE 264
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0007041 , L0007042 , L0007043 ,

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

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 269
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

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

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1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

Surface file: ..\MENDOTA-MM5\MENDOTA_07-11.SFC
Met Version: 21112
Profile file: ..\MENDOTA-MM5\MENDOTA_07-11.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 99005 Upper air station no.: 66666
Name: UNKNOWN Name: UNKNOWN

Year: 2007 Year: 2007

First 24 hours of scalar data

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07	01	01	1	02	-40.1	0.392	-9.000	-9.000	-999.	590.	169.4	0.10	0.59	1.00	5.10	288.	15.0	278.9	2.0
07	01	01	1	03	-40.1	0.392	-9.000	-9.000	-999.	590.	169.4	0.10	0.59	1.00	5.10	294.	15.0	278.8	2.0
07	01	01	1	04	-40.1	0.392	-9.000	-9.000	-999.	590.	169.4	0.10	0.59	1.00	5.10	293.	15.0	278.5	2.0
07	01	01	1	05	-36.1	0.352	-9.000	-9.000	-999.	503.	136.7	0.10	0.59	1.00	4.60	293.	15.0	278.2	2.0

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1.00    4.60  295.   15.0  278.0    2.0
 07 01 01   1 08  -34.9  0.353 -9.000 -9.000 -999.  503.    136.8  0.10   0.59
0.66    4.60  293.   15.0  277.9    2.0
 07 01 01   1 09    7.7  0.384  0.216  0.010   47.  570.   -663.6  0.07   0.59
0.36    5.10  307.   15.0  279.5    2.0
 07 01 01   1 10   43.6  0.443  0.602  0.008  181.  706.   -180.6  0.07   0.59
0.25    5.70  321.   15.0  281.8    2.0
 07 01 01   1 11   70.1  0.451  0.892  0.008  367.  726.   -118.3  0.07   0.59
0.21    5.70  324.   15.0  283.5    2.0
 07 01 01   1 12   84.4  0.454  1.007  0.008  439.  735.   -100.7  0.07   0.59
0.20    5.70  316.   15.0  285.0    2.0
 07 01 01   1 13   85.7  0.374  1.051  0.010  491.  554.    -55.4  0.04   0.59
0.20    5.10  333.   15.0  286.2    2.0
 07 01 01   1 14   74.0  0.410  1.028  0.009  531.  631.    -84.6  0.07   0.59
0.21    5.10  329.   15.0  287.1    2.0
 07 01 01   1 15   49.8  0.369  0.915  0.010  557.  538.    -91.1  0.07   0.59
0.24    4.60  312.   15.0  287.4    2.0
 07 01 01   1 16   15.2  0.343  0.619  0.010  564.  482.   -239.7  0.10   0.59
0.33    4.10  284.   15.0  286.6    2.0
 07 01 01   1 17  -34.0  0.394 -9.000 -9.000 -999.  593.    170.6  0.10   0.59
0.59    5.10  271.   15.0  285.0    2.0
 07 01 01   1 18  -39.4  0.393 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  277.   15.0  283.1    2.0
 07 01 01   1 19  -39.5  0.393 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  284.   15.0  282.2    2.0
 07 01 01   1 20  -39.6  0.393 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  287.   15.0  281.8    2.0
 07 01 01   1 21  -39.6  0.393 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  290.   15.0  281.2    2.0
 07 01 01   1 22  -39.7  0.392 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  292.   15.0  280.8    2.0
 07 01 01   1 23  -35.7  0.353 -9.000 -9.000 -999.  504.    136.7  0.10   0.59
1.00    4.60  290.   15.0  280.5    2.0
 07 01 01   1 24  -35.8  0.353 -9.000 -9.000 -999.  502.    136.7  0.10   0.59
1.00    4.60  290.   15.0  280.1    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 07 01 01 01   15.0 1  291.    5.10   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CON ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
731866.30	4057450.99	0.55525	731868.18	4057319.52	0.47638
734159.24	4057371.01	0.63320	734159.87	4057344.71	0.63198
734219.36	4057346.59	0.60656	735182.33	4057279.09	0.35801
733510.32	4062608.38	0.05270	733490.02	4060492.51	0.27727
731054.88	4060409.49	0.42185	731096.39	4058804.51	0.43205
731857.37	4058832.18	1.65503	731898.88	4057199.53	0.42502
733116.45	4057241.04	1.53470	733116.45	4056825.95	1.00505
732729.04	4056812.12	0.71722	732742.88	4056397.04	0.93456
731926.55	4056383.20	0.46965	731968.06	4055580.71	0.75984
731124.06	4055566.87	0.39935	731165.57	4054695.20	0.26184
731968.06	4054709.04	0.92685	731954.22	4055179.46	1.42775
733573.04	4055193.30	1.09010			

                            *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GENTIE   ***
                            INCLUDING SOURCE(S):   L0006566   , L0006567 , L0006568   , L0006569   , L0006570   ,
                 L0006571   , L0006572   , L0006573   , L0006574   , L0006575 , L0006576   , L0006577   , L0006578   ,
                 L0006579   , L0006580   , L0006581   , L0006582   , L0006583 , L0006584   , L0006585   , L0006586   ,
                 L0006587   , L0006588   , L0006589   , L0006590   , L0006591 , L0006592   , L0006593   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PGE ***
INCLUDING SOURCE(S): L0006915 , L0006916 , L0006917 , L0006918 , L0006919 ,
L0006920 , L0006921 , L0006922 , L0006923 , L0006924 , L0006925 , L0006926 , L0006927 ,
L0006928 , L0006929 , L0006930 , L0006931 , L0006932 , L0006933 , L0006934 , L0006935 ,
L0006936 , L0006937 , L0006938 , L0006939 , L0006940 , L0006941 , L0006942 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
731866.30	4057450.99	0.04978	731868.18	4057319.52	0.05205
734159.24	4057371.01	0.04061	734159.87	4057344.71	0.04086
734219.36	4057346.59	0.04028	735182.33	4057279.09	0.03467
733510.32	4062608.38	0.01500	733490.02	4060492.51	0.02076
731054.88	4060409.49	0.02407	731096.39	4058804.51	0.03467
731857.37	4058832.18	0.03329	731898.88	4057199.53	0.05410
733116.45	4057241.04	0.04575	733116.45	4056825.95	0.05243
732729.04	4056812.12	0.05637	732742.88	4056397.04	0.06582
731926.55	4056383.20	0.07446	731968.06	4055580.71	0.11074
731124.06	4055566.87	0.11088	731165.57	4054695.20	0.19640

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
731866.30	4057450.99	0.66359	731868.18	4057319.52	0.59013
734159.24	4057371.01	0.71666	734159.87	4057344.71	0.71601
734219.36	4057346.59	0.68958	735182.33	4057279.09	0.43080
733510.32	4062608.38	0.08349	733490.02	4060492.51	0.32099
731054.88	4060409.49	0.47286	731096.39	4058804.51	0.50714
731857.37	4058832.18	1.72579	731898.88	4057199.53	0.54375
733116.45	4057241.04	1.63294	733116.45	4056825.95	1.11862
732729.04	4056812.12	0.83958	732742.88	4056397.04	1.07918
731926.55	4056383.20	0.64019	731968.06		

4055580.71   1.03048
         731124.06   4055566.87   0.72874   731165.57
4054695.20   12.05254
         731968.06   4054709.04   1.57543   731954.22
4055179.46   1.80438
         733573.04   4055193.30   1.30409

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CON   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
        732729.04   4056812.12       16.18793  (07110808)                732742.88
4056397.04       23.25163  (08022208)
        731926.55   4056383.20       11.86876  (11012617)                731968.06
4055580.71       24.71799  (08022208)
        731124.06   4055566.87       13.13282  (08022208)                731165.57
4054695.20       22.18914  (11030108)
        731968.06   4054709.04       13.80846  (07110408)                731954.22
4055179.46       23.13163  (08022208)
        733573.04   4055193.30       21.96860  (07110808)

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GENTIE   ***
                                   INCLUDING SOURCE(S):     L0006566    , L0006567
, L0006568    , L0006569    , L0006570    ,
                  L0006571    , L0006572    , L0006573    , L0006574    , L0006575
, L0006576    , L0006577    , L0006578    ,
                  L0006579    , L0006580    , L0006581    , L0006582    , L0006583
, L0006584    , L0006585    , L0006586    ,
                  L0006587    , L0006588    , L0006589    , L0006590    , L0006591
, L0006592    , L0006593    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        731866.30   4057450.99       13.71406  (09040924)                731868.18
4057319.52       14.00489  (09040924)
        734159.24   4057371.01        6.25420  (07012217)                734159.87
4057344.71        6.25794  (07012217)
        734219.36   4057346.59        6.15605  (07012217)                735182.33
4057279.09        4.58048  (07012217)
        733510.32   4062608.38        3.86757  (08011617)                733490.02
4060492.51        5.88962  (08012808)
        731054.88   4060409.49        7.53754  (11032502)                731096.39
4058804.51       11.07090  (11032502)
        731857.37   4058832.18        9.40033  (11032506)                731898.88
```

4057199.53   13.51826 (09040924)
        733116.45   4057241.04   8.10909 (09020518)   733116.45
4056825.95   7.46366 (07020723)
        732729.04   4056812.12   9.94254 (09020518)   732742.88
4056397.04   9.51274 (09020518)
        731926.55   4056383.20   17.55329 (08011617)   731968.06
4055580.71   18.30420 (10022818)
        731124.06   4055566.87   55.13233 (10021122)   731165.57
4054695.20   282.86252 (10120920)
        731968.06   4054709.04   18.12527 (07012217)   731954.22
4055179.46   18.25592 (10022818)
        733573.04   4055193.30   7.70617 (07012217)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PGE   ***
                                 INCLUDING SOURCE(S):   L0006915   , L0006916
, L0006917   , L0006918   , L0006919   ,
                 L0006920   , L0006921   , L0006922   , L0006923   , L0006924
, L0006925   , L0006926   , L0006927   ,
                 L0006928   , L0006929   , L0006930   , L0006931   , L0006932
, L0006933   , L0006934   , L0006935   ,
                 L0006936   , L0006937   , L0006938   , L0006939   , L0006940
, L0006941   , L0006942   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        731866.30   4057450.99   18.08299 (10120920)   731868.18
4057319.52   18.91933 (10120920)
        734159.24   4057371.01   14.15976 (11022820)   734159.87
4057344.71   13.96006 (11022820)
        734219.36   4057346.59   14.33255 (07022620)   735182.33
4057279.09   12.24555 (07020723)
        733510.32   4062608.38   5.10221 (11032506)   733490.02
4060492.51   7.55688 (10030122)

```
        731054.88   4060409.49        7.71612  (09122018)               731096.39
4058804.51       12.21187  (08021921)
        731857.37   4058832.18       12.52152  (10021122)               731898.88
4057199.53       19.46551  (10120920)
        733116.45   4057241.04       16.85523  (09040924)               733116.45
4056825.95       18.41415  (09040924)
        732729.04   4056812.12       19.67417  (11032506)               732742.88
4056397.04       22.66126  (11032506)
        731926.55   4056383.20       26.14686  (10120920)               731968.06
4055580.71       36.93272  (09021822)
        731124.06   4055566.87       31.99305  (07022719)               731165.57
4054695.20       50.07693  (10032018)
        731968.06   4054709.04       55.55790  (08021921)               731954.22
4055179.46       44.67293  (09122018)
        733573.04   4055193.30       35.45730  (09020518)

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        731866.30   4057450.99       22.96793  (10120920)               731868.18
4057319.52       23.89087  (10120920)
        734159.24   4057371.01       18.80449  (10022818)               734159.87
4057344.71       18.95309  (10022818)
        734219.36   4057346.59       18.78765  (07022620)               735182.33
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4057279.09       14.55129  (07020723)
        733510.32   4062608.38       11.54495  (09022519)                733490.02
4060492.51       17.98622  (10030122)
        731054.88   4060409.49       16.56913  (09122018)                731096.39
4058804.51       24.42818  (08022208)
        731857.37   4058832.18       28.06484  (08022208)                731898.88
4057199.53       24.59602  (10120920)
        733116.45   4057241.04       25.68749  (09040924)                733116.45
4056825.95       31.54552  (09040924)
        732729.04   4056812.12       27.54568  (11032506)                732742.88
4056397.04       33.97752  (09020421)
        731926.55   4056383.20       31.77376  (10120920)                731968.06
4055580.71       45.04763  (09021822)
        731124.06   4055566.87       56.35751  (10021122)                731165.57
4054695.20      283.52051  (10120920)
        731968.06   4054709.04       59.95556  (08021921)                731954.22
4055179.46       50.25704  (09122018)
        733573.04   4055193.30       38.86195  (09020518)

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

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


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


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

CON       1ST HIGHEST VALUE IS       1.65503 AT (  731857.37,  4058832.18,    63.26,
   63.26,    0.00)  DC
          2ND HIGHEST VALUE IS       1.53470 AT (  733116.45,  4057241.04,    61.11,
   61.11,    0.00)  DC
          3RD HIGHEST VALUE IS       1.42775 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS       1.09010 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          5TH HIGHEST VALUE IS       1.00505 AT (  733116.45,  4056825.95,    61.17,
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   61.17,    0.00)  DC
          6TH HIGHEST VALUE IS       0.93456 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          7TH HIGHEST VALUE IS       0.92685 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          8TH HIGHEST VALUE IS       0.75984 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          9TH HIGHEST VALUE IS       0.71722 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC
         10TH HIGHEST VALUE IS       0.63320 AT (  734159.24,  4057371.01,    58.77,
   58.77,    0.00)  DC

GENTIE    1ST HIGHEST VALUE IS      11.59431 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          2ND HIGHEST VALUE IS       0.44542 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          3RD HIGHEST VALUE IS       0.23422 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS       0.21851 AT (  731124.06,  4055566.87,    64.84,
   64.84,    0.00)  DC
          5TH HIGHEST VALUE IS       0.15990 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          6TH HIGHEST VALUE IS       0.11744 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS       0.09608 AT (  731926.55,  4056383.20,    63.79,
   63.79,    0.00)  DC
          8TH HIGHEST VALUE IS       0.07880 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS       0.06599 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC
         10TH HIGHEST VALUE IS       0.06463 AT (  731898.88,  4057199.53,    63.83,
   63.83,    0.00)  DC

PGE       1ST HIGHEST VALUE IS       0.20316 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          2ND HIGHEST VALUE IS       0.19640 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          3RD HIGHEST VALUE IS       0.14241 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS       0.11088 AT (  731124.06,  4055566.87,    64.84,
   64.84,    0.00)  DC
          5TH HIGHEST VALUE IS       0.11074 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          6TH HIGHEST VALUE IS       0.09655 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS       0.07446 AT (  731926.55,  4056383.20,    63.79,
   63.79,    0.00)  DC
          8TH HIGHEST VALUE IS       0.06582 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS       0.05637 AT (  732729.04,  4056812.12,    62.12,
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   62.12,    0.00)  DC
       10TH HIGHEST VALUE IS       0.05410 AT (  731898.88,  4057199.53,    63.83,
   63.83,    0.00)  DC

ALL        1ST HIGHEST VALUE IS      12.05254 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
        2ND HIGHEST VALUE IS       1.80438 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
        3RD HIGHEST VALUE IS       1.72579 AT (  731857.37,  4058832.18,    63.26,
   63.26,    0.00)  DC
        4TH HIGHEST VALUE IS       1.63294 AT (  733116.45,  4057241.04,    61.11,
   61.11,    0.00)  DC
        5TH HIGHEST VALUE IS       1.57543 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
        6TH HIGHEST VALUE IS       1.30409 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
        7TH HIGHEST VALUE IS       1.11862 AT (  733116.45,  4056825.95,    61.17,
   61.17,    0.00)  DC
        8TH HIGHEST VALUE IS       1.07918 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
        9TH HIGHEST VALUE IS       1.03048 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
       10TH HIGHEST VALUE IS       0.83958 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 280
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


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

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

CON      HIGH   1ST HIGH VALUE IS      26.21815  ON 08022208: AT (  731857.37,
4058832.18,    63.26,    63.26,    0.00)  DC

GENTIE   HIGH   1ST HIGH VALUE IS     282.86252  ON 10120920: AT (  731165.57,
4054695.20,    64.82,    64.82,    0.00)  DC

PGE      HIGH   1ST HIGH VALUE IS      55.55790  ON 08021921: AT (  731968.06,
4054709.04,    62.84,    62.84,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS     283.52051  ON 10120920: AT (  731165.57,
4054695.20,    64.82,    64.82,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 281
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         3492 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of         3492 Calm Hours Identified

 A Total of            0 Missing Hours Identified (  0.00 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W187   15500       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

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

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

 **The AERMET Input Meteorological Data Version Date: 21112

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

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

 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   15.00 ; Decay
Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ;
Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =   6.5 MB of RAM.

 **Input Runstream File: aermod.inp

 **Output Print File: aermod.out

 **Detailed Error/Message File: HEARTLAND HYDROGEN.ERR

 **File for Summary of Results: HEARTLAND HYDROGEN.SUM

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1

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

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

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

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

Surface file: ..\MENDOTA-MM5\MENDOTA_07-11.SFC
Met Version: 21112
Profile file: ..\MENDOTA-MM5\MENDOTA_07-11.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 99005 Upper air station no.: 66666
Name: UNKNOWN Name: UNKNOWN

Year: 2007 Year: 2007

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT

- - - -

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

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

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
CON	1ST HIGHEST VALUE IS	1.65503	AT (731857.37, 4058832.18, 63.26, 63.26, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.53470	AT (733116.45, 4057241.04, 61.11, 61.11, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.42775	AT (731954.22, 4055179.46, 62.93, 62.93, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.09010	AT (733573.04, 4055193.30, 60.28, 60.28, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.00505	AT (733116.45, 4056825.95, 61.17, 61.17, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.93456	AT (732742.88, 4056397.04, 61.94, 61.94, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.92685	AT (731968.06, 4054709.04, 62.84, 62.84, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.75984	AT (731968.06, 4055580.71, 63.08, 63.08, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.71722	AT (732729.04, 4056812.12, 62.12, 62.12, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.63320	AT (734159.24, 4057371.01, 58.77, 58.77, 0.00)	DC	

```
GENTIE    1ST HIGHEST VALUE IS     11.59431 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          2ND HIGHEST VALUE IS      0.44542 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          3RD HIGHEST VALUE IS      0.23422 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS      0.21851 AT (  731124.06,  4055566.87,    64.84,
   64.84,    0.00)  DC
          5TH HIGHEST VALUE IS      0.15990 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          6TH HIGHEST VALUE IS      0.11744 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS      0.09608 AT (  731926.55,  4056383.20,    63.79,
   63.79,    0.00)  DC
          8TH HIGHEST VALUE IS      0.07880 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS      0.06599 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC
         10TH HIGHEST VALUE IS      0.06463 AT (  731898.88,  4057199.53,    63.83,
   63.83,    0.00)  DC

PGE       1ST HIGHEST VALUE IS      0.20316 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          2ND HIGHEST VALUE IS      0.19640 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          3RD HIGHEST VALUE IS      0.14241 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS      0.11088 AT (  731124.06,  4055566.87,    64.84,
   64.84,    0.00)  DC
          5TH HIGHEST VALUE IS      0.11074 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          6TH HIGHEST VALUE IS      0.09655 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS      0.07446 AT (  731926.55,  4056383.20,    63.79,
   63.79,    0.00)  DC
          8TH HIGHEST VALUE IS      0.06582 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS      0.05637 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC
         10TH HIGHEST VALUE IS      0.05410 AT (  731898.88,  4057199.53,    63.83,
   63.83,    0.00)  DC

ALL       1ST HIGHEST VALUE IS     12.05254 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          2ND HIGHEST VALUE IS      1.80438 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          3RD HIGHEST VALUE IS      1.72579 AT (  731857.37,  4058832.18,    63.26,
   63.26,    0.00)  DC
          4TH HIGHEST VALUE IS      1.63294 AT (  733116.45,  4057241.04,    61.11,
   61.11,    0.00)  DC
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          5TH HIGHEST VALUE IS       1.57543 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          6TH HIGHEST VALUE IS       1.30409 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS       1.11862 AT (  733116.45,  4056825.95,    61.17,
   61.17,    0.00)  DC
          8TH HIGHEST VALUE IS       1.07918 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS       1.03048 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
         10TH HIGHEST VALUE IS       0.83958 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                              *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


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

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

CON      HIGH   1ST HIGH VALUE IS      26.21815  ON 08022208: AT (  731857.37,
4058832.18,    63.26,    63.26,    0.00)  DC

GENTIE   HIGH   1ST HIGH VALUE IS     282.86252  ON 10120920: AT (  731165.57,
4054695.20,    64.82,    64.82,    0.00)  DC

PGE      HIGH   1ST HIGH VALUE IS      55.55790  ON 08021921: AT (  731968.06,
4054709.04,    62.84,    62.84,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS     283.52051  ON 10120920: AT (  731165.57,
```

```
4054695.20,    64.82,    64.82,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***        10:07:44

                                   PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         3492 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of         3492 Calm Hours Identified

 A Total of            0 Missing Hours Identified (  0.00 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W187   15500       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

HARP Project Summary Report 4/16/2025 12:43:22 PM

PROJECT INFORMATION
HARP Version: 22118
Project Name: HEARTLAND SOLAR HARP
Project Output Directory: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:3
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
Construction	0	0	9901	DieselExhPM	1	154.07	0.07407	1
Gentie	0	0	9901	DieselExhPM	1	4.41	0.00212	1
PGE	0	0	9901	DieselExhPM	1	32.01	0.01539	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)
9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH25003
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL

InhChronicREL OralChronicREL InhChronic8HRREL

9901 DieselExhPM 1.1 5

AIR DISPERSION MODELING INFORMATION
Versions used in HARP. All executables were obtained from USEPA's Support Center for Regulatory Atmospheric Modeling website (http://www.epa.gov/scram001/)
AERMOD: 18081
AERMAP: 18081
BPIPPRM: 04274
AERPLOT: 13329

METEOROLOGICAL INFORMATION
Version:
Surface File:
Profile File:
Surface Station:
Upper Station:
On-Site Station:

LIST OF AIR DISPERSION FILES
AERMOD Input File:
AERMOD Output File:
AERMOD Error File:
Plotfile list

Cancer.plt

LIST OF RISK ASSESSMENT FILES
Health risk analysis files (\hra\)

ResidentialCancerRisk.csv
ResidentialCancerRiskSumByRec.csv
ResidentialGLCList.csv
ResidentialHRAInput.hra
ResidentialNCAcuteRisk.csv
ResidentialNCAcuteRiskSumByRec.csv
ResidentialNCChronicRisk.csv
ResidentialNCChronicRiskSumByRec.csv
ResidentialOutput.txt
ResidentialPathwayRec.csv
ResidentialPolDB.csv

Spatial averaging files (\sa\)

HARP2 - HRACalc (dated 22118) 4/16/2025 12:31:42 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.5

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.5
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialNCAcuteRiskSumByRec.csv
HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		731866.3	4057451	3.27E-07	1.5YrCance	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		731868.2	4057320	2.82E-07	1.5YrCance	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		734159.2	4057371	3.70E-07	1.5YrCance	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		734159.9	4057345	3.70E-07	1.5YrCance	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		734219.4	4057347	3.55E-07	1.5YrCance	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		735182.3	4057279	2.11E-07	1.5YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		733510.3	4062608	3.24E-08	1.5YrCance	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		733490	4060493	1.63E-07	1.5YrCance	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		731054.9	4060409	2.46E-07	1.5YrCance	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		731096.4	4058805	2.54E-07	1.5YrCance	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		731857.4	4058832	9.58E-07	1.5YrCance	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		731898.9	4057200	2.52E-07	1.5YrCance	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		733116.5	4057241	8.90E-07	1.5YrCance	8.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		733116.5	4056826	5.86E-07	1.5YrCance	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		732729	4056812	4.21E-07	1.5YrCance	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		732742.9	4056397	5.48E-07	1.5YrCance	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		731926.6	4056383	2.81E-07	1.5YrCance	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		731968.1	4055581	4.54E-07	1.5YrCance	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		731124.1	4055567	2.47E-07	1.5YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		731165.6	4054695	3.66E-07	1.5YrCance	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		731968.1	4054709	5.66E-07	1.5YrCance	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		731954.2	4055179	8.43E-07	1.5YrCance	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		733573	4055193	6.42E-07	1.5YrCance	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		731866.3	4057451	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
2	ALL		731868.2	4057320	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
3	ALL		734159.2	4057371	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
4	ALL		734159.9	4057345	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
5	ALL		734219.4	4057347	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
6	ALL		735182.3	4057279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
7	ALL		733510.3	4062608	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
8	ALL		733490	4060493	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
9	ALL		731054.9	4060409	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
10	ALL		731096.4	4058805	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
11	ALL		731857.4	4058832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04
12	ALL		731898.9	4057200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
13	ALL		733116.5	4057241	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04
14	ALL		733116.5	4056826	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
15	ALL		732729	4056812	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
16	ALL		732742.9	4056397	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
17	ALL		731926.6	4056383	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
18	ALL		731968.1	4055581	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
19	ALL		731124.1	4055567	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
20	ALL		731165.6	4054695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
21	ALL		731968.1	4054709	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
22	ALL		731954.2	4055179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04
23	ALL		733573	4055193	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04

Appendix D
Health Effects

MEMORANDUM

To:	Memorandum to File
From:	Adam Poll; Dudek
Subject:	Health Effects from Criteria Air Pollutant Emissions Associated with the Heartland Solar Project
Date:	April 22, 2025

1 Purpose and Introduction

In response to the California Supreme Court's *Sierra Club v. County of Fresno* (2018) 6 Cal. 5th 502 decision (referred to herein as the Friant Ranch decision), this memorandum addresses the potential for adverse health effects related to emissions of criteria air pollutants associated with construction and operation of the proposed Heartland Solar (project), based on scientific information and technological methods available at the time of this memorandum's preparation. The published Friant Ranch decision (issued on December 24, 2018) addresses the need to correlate mass emission values for criteria air pollutants to specific health consequences, and contains the following direction from the California Supreme Court: "The Environmental Impact Report (EIR) must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further." (Italics original.) (Sierra Club v. County of Fresno 2018.)

As discussed below, at the time of this memorandum's preparation, no expert agency, including the California Air Resources Board (CARB), or the U.S. Environmental Protection Agency (EPA), have approved a quantitative method to reliably, meaningfully and consistently translate the mass emission estimates for the criteria air pollutants resulting from a proposed project to specific health effects. In April 2019, the Sacramento Metropolitan Air Quality Management District (Sacramento Metropolitan AQMD) published an Interim Recommendation on implementing the Friant Ranch decision in the review and analysis of proposed projects under the California Environmental Quality Act (CEQA) in Sacramento County. In October 2020, the Sacramento Metropolitan AQMD published instructions for using a health effects screening tool for projects within their 5-Air-District Region, which is summarized in Section 4, below. In 2022, the Bay Area Air Quality Management District released health effects assessment for criteria air pollutants guidance to address the Friant Ranch case as part of their 2022 CEQA Guidelines, which is qualitative (Bay Area AQMD 2022). No other California air district or other expert agency/entity has published *quantitative* guidance on how to address the Friant Ranch decision for the state.

Nonetheless, following the Supreme Court's Friant Ranch decision, some EIRs where estimated criteria air pollutant emissions exceeded applicable air district thresholds have included a quantitative analysis of potential project-generated health effects using a combination of a regional photochemical grid model (PGM) and the EPA Benefits Mapping and Analysis Program (BenMAP or BenMAP–Community Edition (CE)). The publicly available health impact assessments (HIA) typically present results in terms of an increase in health incidences and/or the increase in

background health incidence for various health outcomes resulting from the project's estimated increase in concentrations of ozone (O_3) and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$). To date, all of the HIAs that are publicly available that have been reviewed as part of this memorandum have concluded that the evaluated project's health effects associated with the estimated project-generated increase in concentrations of O_3 and $PM_{2.5}$ represent a small increase in incidences and a very small percent of the number of background incidences, indicating that these health impacts are negligible and potentially within the models' margin of error. A review of the publicly available HIAs in CEQA documents is provided in Section 4.

2 National and California Ambient Air Quality Standards

Ambient air quality standards (AAQS) define clean air and are established to protect even the most sensitive individuals (CARB 2023a). An AAQS defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. The EPA and CARB are both authorized to set AAQS.

The Clean Air Act Amendments of 1970 instruct the EPA to set primary National AAQS (NAAQS) to protect public health, and secondary NAAQS to protect plants, forests, crops and materials from damage due to exposure to the following criteria air pollutants: O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), $PM_{2.5}$, and lead.

The federal Clean Air Act requires that the EPA reassess, at least every five years, whether adopted standards are adequate to protect public health based on current scientific evidence. The EPA is required to rely on the advice of an independent scientific panel, the Clean Air Scientific Advisory Committee. Reviewing the NAAQS is a lengthy undertaking and includes the following major phases: planning, integrated science assessment, risk/exposure assessment, policy assessment, and rulemaking (EPA 2023a). During the integrated science assessment, a comprehensive review, synthesis, and evaluation of the most policy-relevant science is conducted, including key science judgments that are important to inform the development of the risk and exposure assessments (EPA 2023a). Then, the risk/exposure assessment draws upon information and conclusions presented in the integrated science assessment to develop quantitative characterizations of exposures and associated risks to human health or the environment associated with recent air quality conditions and with air quality estimated to just meet the current or alternative standard(s) under consideration (EPA 2023a). Scientific review during policy assessment development, and the NAAQS review process in general, is thorough and extensive.

In 1959, California enacted legislation requiring the state Department of Public Health to establish AAQS and necessary controls for motor vehicle emissions (CARB 2023b). California's AAQS (CAAQS) were adopted in 1971 (CARB 2023b). The CAAQS are established for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$, as well as hydrogen sulfide, vinyl chloride, sulfates, and visibility reducing particles.

Air quality standard setting in California commences with a critical review of all relevant peer reviewed scientific literature. The Office of Environmental Health Hazard Assessment (OEHHA) uses the review of health literature to develop a recommendation for the standard. The recommendation can be for no change or for a new standard. The review, including the OEHHA recommendation, is summarized in a document called the draft Initial Statement of Reasons (ISOR), which is released for comment by the public, and also for public peer review by the Air Quality Advisory Committee (AQAC). AQAC members are appointed by the President of the University of California for their expertise in the range of subjects covered in the ISOR, including health, exposure, air quality monitoring,

atmospheric chemistry and physics, and effects on plants, trees, materials, and ecosystems. The Committee provides written comments on the draft ISOR. CARB staff next revises the ISOR based on comments from AQAC and the public. The revised ISOR is then released for a 45-day public comment period prior to consideration by the Board of CARB at a regularly scheduled Board hearing (CARB 2023c).

Federal law requires that all states attain the NAAQS. Failure of a state to reach attainment of the NAAQS by the target date can trigger penalties, including withholding of federal highway funds (CARB 2023b). California law similarly continues to mandate CAAQS, although attainment of the NAAQS has precedence over attainment of the CAAQS (CARB 2023b).

Of importance to this memorandum, California air districts have based their thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an AAQS is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the AAQS, this means that the thresholds established by air districts are also protective of human health. The particular thresholds of relevance to the project are illustrated in Table 3.2-7, Criteria Air Pollutant Thresholds of Significance by California Air District, of the EIR. Because O_3 is not emitted directly, air districts have established emissions-based thresholds for O_3 precursors—volatile organic compounds (VOCs) and oxides of nitrogen (NO_x)—which are intended to serve as a surrogate for an "O_3 significance threshold" (i.e., the potential for adverse O_3 impacts to occur).

The NAAQS and CAAQS for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$ are presented in Table 1. Hydrogen sulfide, vinyl chloride, sulfates, and visibility reducing particles are not addressed further in this evaluation because they are not routinely associated with land use development projects subject to CEQA review and are thus not presented in Table 1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
O_3	1 hour	0.09 ppm (180 µg/m³)	—	Same as primary standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as primary standard
	Annual arithmetic mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as primary standard
	Annual arithmetic mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as primary standard
	Annual arithmetic mean	12 µg/m³	9.0 µg/m³	15.0 µg/m³
Lead[j,k]	30-day average	1.5 µg/m³	—	—
	Calendar quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as primary standard
	Rolling 3-month average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24 hours	25 µg/m³	—	—
Visibility reducing particles	8 hours (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016.
Notes: O_3 = ozone; ppm = parts per million by volume; µg/m³ = micrograms per cubic meter; NO_2 = nitrogen dioxide; CO = carbon monoxide; mg/m³= milligrams per cubic meter; SO_2 = sulfur dioxide; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; PST = Pacific Standard Time.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National primary standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National secondary standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[l] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[k] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5-µg/m^3 as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

Pursuant to the 1990 Clean Air Act amendments, the EPA classifies air basins (or portions thereof) as "attainment" or "nonattainment" for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as "attainment" for that pollutant. If an area exceeds the standard, the area is classified as "nonattainment" for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable." The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Nonattainment areas must develop plans to attain the NAAQS. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on CAAQS rather than NAAQS.

Table 2 depicts the current attainment status of the counties where project activity would occur in respect to the NAAQS and CAAQS.[1]

[1] The same discussion of the attainment designation is provided in Section 3.2 of the EIR.

Table 2. San Joaquin Valley Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	California Designation
Ozone (O_3) – 1-hour	No national standard[1]	Nonattainment/Severe
Ozone (O_3) – 8-hour	Nonattainment/Extreme[2]	Nonattainment
Nitrogen dioxide (NO_2)	Unclassifiable/attainment	Attainment
Carbon monoxide (CO)	Unclassifiable/attainment	Attainment
Sulfur dioxide (SO_2)	Unclassifiable/attainment	Attainment
Respirable particulate matter (PM_{10})	Attainment (Maintenance)[3]	Nonattainment
Fine particulate matter ($PM_{2.5}$)	Nonattainment[4]	Nonattainment
Lead (Pb)[5]	Unclassifiable/attainment	Attainment
Sulfates (SO_4)	No national standard	Attainment
Hydrogen sulfide (H_2S)	No national standard	Unclassified
Vinyl chloride[5]	No national standard	No designation
Visibility-reducing particles	No national standard	Unclassified

Sources: SJVAPCD 2020c; EPA 2018 (national); CARB 2019e (California).
Notes: Attainment = meets the standards; Attainment (maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or unclassifiable = insufficient data to classify; Unclassifiable/attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

1 Effective June 15, 2005, the EPA revoked the national 1-hour ozone standard, including associated designations and classifications. EPA had previously classified the SJVAB as extreme nonattainment for this standard. EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan (SJVAPCD 2004) on March 8, 2010 (effective April 7, 2010). Many applicable requirements for extreme 1-hour ozone nonattainment areas continue to apply to the SJVAB.

2 Though the San Joaquin Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard, EPA approved San Joaquin Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).

3 On September 25, 2008, EPA re-designated the San Joaquin Valley to attainment for the PM_{10} NAAQS and approved the PM_{10} Maintenance Plan.

4 The San Joaquin Valley is designated nonattainment for the 1997 $PM_{2.5}$ NAAQS. EPA designated the San Joaquin Valley as nonattainment for the 2006 $PM_{2.5}$ NAAQS on November 13, 2009 (effective December 14, 2009).

5 CARB has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined.

Various California air districts are responsible for developing and implementing the clean air plan for attainment and maintenance of the AAQS in their associated air basin. Accordingly, these air districts have adopted federal and state attainment plans. As air districts develop and implement plans and control measures designed to attain the AAQS, the air districts implement measures to reduce public health effects associated with criteria air pollutants.

3 Health Effects of Criteria Air Pollutants and their Precursors

Numerous scientific studies published over the past 50 years point to the harmful effects of air pollution (CARB 2023b). As explained above, the AAQS are designed to prevent these effects (CARB 2023b). The adverse health effects associated with air pollution include, but are not limited to (South Coast AQMD 2022):

- Premature mortality
- Cardiovascular effects
- Cancer
- Reproductive effects
- Neurological effects
- Increased respiratory illness and other morbidity (symptoms, infections, and asthma exacerbation)

The evidence linking these effects to air pollutants is derived from population-based observational and field studies (epidemiological), toxicological studies, as well as controlled laboratory studies involving human subjects and animals. There have been an increasing number of studies focusing on the mechanisms (that is, on learning how specific organs, cell types, and biomarkers are involved in the human body's response to air pollution) and specific pollutants responsible for individual effects. Yet the underlying biological pathways for these effects are not always clearly understood (South Coast AQMD 2022).

Although individuals inhale pollutants as a mixture under ambient conditions, the regulatory framework and the control measures developed are pollutant-specific for six major outdoor pollutants covered under Sections 108 and 109 of the Clean Air Act. This is appropriate, in that different pollutants usually differ in their sources, their times and places of occurrence, the kinds of health effects they may cause, and their overall levels of health risk. Different pollutants, from the same or different sources, oftentimes occur together. Evidence for more than additive effects has not been strong and, as a practical matter, health scientists, as well as regulatory officials, usually must deal with one pollutant at a time in adopting AAQS (South Coast AQMD 2022).

Health effects associated with criteria air pollutants are discussed below.

Ozone. O_3 is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O_3 precursors. These precursors are mainly NO_x and VOCs. The maximum effects of precursor emissions on O_3 concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O_3 formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O_3 exists in the upper atmosphere O_3 layer (stratospheric O_3) and at the Earth's surface in the troposphere (ground-level O_3).[2] The O_3 that the EPA and CARB regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O_3 is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O_3. Stratospheric, or "good," O_3 occurs naturally in the upper atmosphere, where it reduces the

[2] The troposphere is the layer of the Earth's atmosphere nearest to the surface of the Earth. The troposphere extends outward about 5 miles at the poles and about 10 miles at the equator.

amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O_3 layer, plant and animal life would be seriously harmed.

O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013).

Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in, thereby causing shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies on the effects of O_3 on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents, and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2022b).

A number of population groups are potentially at increased risk for O_3 exposure effects. In the ongoing review of O_3, the EPA has identified populations as having adequate evidence for increased risk from O_3 exposures include individuals with asthma, younger and older age groups, individuals with reduced intake of certain nutrients such as Vitamins C and E, and outdoor workers. There is suggestive evidence for other potential factors, such as variations in genes related to oxidative metabolism or inflammation, gender, socioeconomic status, and obesity. However further evidence is needed (South Coast AQMD 2022).

The adverse effects reported with short-term O_3 exposure are greater with increased activity because activity increases the breathing rate and the volume of air reaching the lungs, resulting in an increased amount of O_3 reaching the lungs. Children may be a particularly vulnerable population to air pollution effects because they spend more time outdoors, are generally more active, and have a higher specific ventilation relative to their body weight, compared to adults (South Coast AQMD 2022).

Volatile Organic Compounds. The primary health effects of VOCs result from the formation of O_3 and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered toxic air contaminants (TACs). There are no separate health standards for VOCs as a group.

Nitrogen Dioxide. NO_2 is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO_2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO), which is a colorless, odorless gas. NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O_3. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_x is an

important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers. NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016).

A large body of health science literature Indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the ambient air quality standards for NO_2, results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher levels of exposure compared to children with lower exposure levels. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2022c).

Carbon Monoxide. CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, automobile exhaust accounts for the majority of CO emissions. CO is a nonreactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas from November to February. The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

CO is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, light-headedness, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2022d).

Sulfur Dioxide. SO_2 is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO_2 are coal and oil used in power plants and industries; as such, the highest levels of SO_2 are generally found near large industrial complexes. In recent years, SO_2 concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO_2 and limits on the sulfur content of fuels.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the 1-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath, and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 parts per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. Older people and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2022e).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in particulate matter (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO_2-induced increase in airflow resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter. Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. $PM_{2.5}$ and PM_{10} represent fractions of particulate matter. Coarse particulate matter (PM_{10}) consists of particulate matter that is 10 microns or less in diameter, which is about 1/7 the thickness of a human hair. Major sources of PM_{10} include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter ($PM_{2.5}$) consists of particulate matter that is 2.5 microns or less in diameter, which is roughly 1/28 the diameter of a human hair. $PM_{2.5}$ results from fuel combustion (e.g., from motor vehicles and power generation and industrial facilities), residential fireplaces, and woodstoves. In addition, $PM_{2.5}$ can be formed in the atmosphere from gases such as sulfur oxides (SO_x), NO_x, and VOCs.

$PM_{2.5}$ and PM_{10} pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. $PM_{2.5}$ and PM_{10} can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the bloodstream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM_{10} tends to collect in the upper portion of the respiratory system, $PM_{2.5}$ is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

Several adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hour duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and worldwide based on the World Health Organization's Global Burden of Disease Project. Short-term

exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2022f).

Long-term exposure (months to years) to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that particulate matter in outdoor air pollution causes lung cancer (CARB 2022f).

People with influenza, people with chronic respiratory and cardiovascular diseases, and older adults may suffer worsening illness and premature death as a result of breathing PM. People with bronchitis can expect aggravated symptoms from breathing PM. Children may experience a decline in lung function due to breathing in PM_{10} and $PM_{2.5}$ (EPA 2009).

PM encompasses a physically and chemically diverse class of ambient air pollutants of both anthropogenic and biological origin. The PM standard is the only NAAQS that does not target a specific chemical or family of chemical species (NRC 2005). The range of human health effects associated with ambient PM levels or demonstrated in laboratory studies has expanded from earlier concerns for total mortality and respiratory morbidity to include cardiac mortality and morbidity, blood vessel constriction, stroke, premature birth, low birth weight, retarded lung growth, enhancement of allergic responses, reduced resistance to infection, degenerative lesions in the brain, and lung cancer (EPA 2004).

4 Scientific and Technological Complexities, Guidance, and Methods

At issue in the Friant Ranch decision was the fact that a development project's environmental analysis did not connect its mass emission totals to specific adverse human health effects. Concerned with the sufficiency of the environmental analysis as an informational document, and specifically whether the magnitude of project impacts was adequately disclosed, the California Supreme Court stated the following:

> "The task for real party and the County is clear: The EIR must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must adequately explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further." (Sierra Club v. County of Fresno 2018; italics original)

As discussed further below, at the time of this writing, no available modeling tools have been proven to provide a reliable and meaningful analysis to correlate an increase in mass totals or concentrations of criteria air pollutants from an individual project to specific health effects, or estimate additional pollutant nonattainment days relative to the NAAQS and CAAQS due to a single project.

Available guidance and expert opinion are summarized below and includes the San Joaquin Valley APCD amicus brief, the South Coast AQMD amicus brief, the Sacramento Metropolitan quantitative guidance and tools for projects within the 5-Air-District region, the Bay Area AQMD qualitative guidance, the City of Los Angeles qualitative guidance, and the Association of Environmental Professionals Climate Change Committee qualitative guidance.

Methods available are also discussed including publicly available HIAs conducted for CEQA analyses using a PGM and BenMAP, and the EPA Co-Benefits Risk Assessment (COBRA) health impacts screening and mapping tool.

Formation of Secondary Pollutants

The California Supreme Court noted, in the Friant Ranch decision, that: "The raw numbers estimating the tons per year of ROG and NO_x from the Project do not give any information to the reader about how much ozone is estimated to be produced as a result."

In response, the formation of O_3 and PM in the atmosphere, as secondary pollutants,[3] involves complex chemical and physical interactions of multiple pollutants from natural and anthropogenic sources, as further explained below. The complexity in how secondary pollutants are formed and dispersed has resulted in ongoing difficulties in measuring and regulating those pollutants.

Tropospheric, or ground level O_3, is not emitted directly into the air, but is created by chemical reactions between NO_x and VOCs (EPA 2023c). This happens when pollutants emitted by cars, power plants, industrial boilers, refineries, chemical plants, and other sources chemically react in the presence of sunlight (EPA 2023c). O_3 is most likely to reach unhealthy levels on hot sunny days in urban environments, but can still reach high levels during colder months (EPA 2023c). O_3 can also be transported long distances by wind, so even rural areas can experience high O_3 levels (EPA 2023c).

The O_3 reaction is self-perpetuating (or catalytic) in the presence of sunlight because NO_2 is photochemically reformed from NO. In this way, O_3 is controlled by both NO_x and VOC emissions (NRC 2005). The complexity of these interacting cycles of pollutants means that incremental decreases in one emission may not result in proportional decreases in O_3 (NRC 2005). Although these reactions and interactions are well understood, variability in emission source operations and meteorology creates uncertainty in the modeled O_3 concentrations to which downwind populations may be exposed (NRC 2005). This is especially true for individual projects, like the project, where project-generated criteria air pollutant emissions are not solely derived from a single "point source," but also from mobile sources (cars and trucks), trains, off-road equipment, energy consumption, and area sources (consumer products, architectural coating, etc.).

In many urban areas, O_3 nonattainment is not caused by emissions from the local area alone (EPA 2008). Due to atmospheric transport, contributions of precursors from the surrounding region can also be important (EPA 2008, O_3 NAAQS). Thus, in designing control strategies to reduce O_3 concentrations in a local area, it is often necessary to account for regional transport within the U.S. (EPA 2008). In some areas, such as California, global transport of O_3 from beyond North America also can contribute to nonattainment areas (EPA 2008).

PM can be divided into two categories: directly emitted PM and secondary PM. Secondary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as SO_x and NO_x (San Joaquin Valley APCD 2015). In general, PM_{10} is composed largely of primary particles, and a much greater portion of $PM_{2.5}$ contains secondary particles (EPA 2015b). The secondary formation of $PM_{2.5}$ is dominated by a variety of chemical species or components of atmospheric particles, such as ammonium sulfate, ammonium nitrate, organic carbon

[3] Air pollutants formed through chemical reactions in the atmosphere are referred to as secondary pollutants.

mass, elemental carbon, and other soil compounds and oxidized metals. $PM_{2.5}$, sulfate, nitrate, and ammonium ions are predominantly the result of chemical reactions of the oxidized products of SO_2 and NO_x emissions with direct ammonia emission (EPA 2017). Because of the complexity of secondary PM formation, including the potential to be transported long distances by wind, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area (San Joaquin Valley APCD 2015).

Because of the long-range transport of some pollutants, important emission sources may be far from the locations where measured pollutant concentrations exceed the AAQS (NRC 2005). Thus, for areas experiencing higher ambient concentrations of pollutants, such as O_3 and PM, controlling emissions of those pollutants and their precursors is typically a regional, often multistate, problem, not a local one (NRC 2005).

San Joaquin Valley Air Pollution Control District and South Coast Air Quality Management District Briefs

In connection with the judicial proceedings culminating in issuance of the Friant Ranch decision, the San Joaquin Valley Air Pollution Control District (San Joaquin Valley APCD) and the South Coast AQMD filed amicus briefs attesting to the extreme difficulty of correlating an individual project's criteria air pollutant emissions to specific health impacts. Both the San Joaquin Valley APCD and the South Coast AQMD have among the most sophisticated air quality modeling and health impact evaluation capabilities of the air districts in the State. While the information and arguments presented in those briefs was considered by the California Supreme Court, the Court noted that such information was not part of the administrative record associated with the County's decision to approve the Friant Ranch project. A summary of the key, relevant points of the San Joaquin Valley APCD and South Coast AQMD briefs is provided below.

Difference between Toxic Air Contaminants and Criteria Air Pollutants

A TAC is an air pollutant, identified in regulation by CARB, which may cause or contribute to an increase in deaths or in serious illness, or which may pose a present or potential hazard to human health. TACs are considered under a different regulatory process (California Health and Safety Code section 39650 et seq.) than pollutants subject to CAAQS and NAAQS. Health effects to TACs may occur at extremely low levels and it is typically difficult to identify levels of exposure which do not produce adverse health effects. A criteria air pollutant, on the other hand, is an air pollutant for which acceptable levels of exposure can be determined and for which an AAQS has been set.

As the San Joaquin Valley APCD explained in their brief, "Although criteria air pollutants can also be harmful to human health, they are distinguishable from TACs and are regulated separately. The most relevant difference between criteria pollutants and TACs for purposes of this case is the manner in which human health impacts are accounted for. While it is common practice to analyze the correlation between an individual facility's TAC emissions and the expected localized human health impacts, such is not the case for criteria pollutants" (San Joaquin Valley APCD 2015). Unlike with TACs (where assessment occurs in conjunction with environmental analysis for individual projects), the human health impacts associated with criteria air pollutants are analyzed and taken into consideration when EPA sets the NAAQS for each criteria pollutant. (42 U.S.C. § 7409(b)(1).) The health impact of a particular criteria pollutant is analyzed on a regional and not a facility or individual project level based on how close the area is to complying with (attaining) the NAAQS (San Joaquin Valley APCD 2015). The San Joaquin Valley APCD concluded that while it is possible to perform a health impact analysis for TACs, which was done for construction and operation of the project as applicable to the activity areas, "it is not feasible to conduct a similar

analysis for criteria air pollutants because currently available computer modeling tools are not equipped for this task" (San Joaquin Valley APCD 2015).

Disconnect Between Mass and Concentration

Another important technical nuance is that health effects from air pollutants are related to the concentration of the air pollutant that an individual is exposed to, not necessarily the individual mass quantity of emissions associated with an individual project. For example, health effects from O_3 are correlated with increases in the ambient level of O_3 in the air a person breathes (South Coast AQMD 2015). However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient O_3 levels over an entire region (South Coast AQMD 2015).

For CEQA analyses, project-generated emissions are typically estimated in pounds per day or tons per year and compared to mass daily or annual emission thresholds. While CEQA thresholds are established at levels that the air basin can accommodate without affecting the attainment date for the AAQS, even if a project exceeds established CEQA significance thresholds, this does not mean that one can easily determine the concentration of O_3 or PM that will be created at or near the project site on a particular day or month of the year, or what specific health impacts will occur (San Joaquin Valley APCD 2015).

As the San Joaquin Valley APCD points out, the tonnage of PM "emitted does not always equate to the local PM concentration because it can be transported long distances by wind," and "[s]econdary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO_x) and NO_x," meaning that "the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area" (San Joaquin Valley APCD 2015). The disconnect between the tonnage of precursor pollutants (NO_x, SO_x and VOCs) and the concentration of O_3 or PM formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects, but the concentration of resulting O_3 or PM (San Joaquin Valley APCD 2015). As discussed previously, the AAQS are established as concentrations of O_3 or PM and not as tonnages of their precursor pollutants (San Joaquin Valley APCD 2015). The disconnect between the amount of precursor pollutants and the concentration of O_3 or PM formed makes it difficult to determine potential health impacts, which are related to the concentration of O_3 and PM experienced by the receptor rather than levels of NO_x, SO_x, and VOCs produced by a source (San Joaquin Valley APCD 2015).

As discussed above, attainment of a particular AAQS occurs when the concentration of the relevant pollutant remains below a set threshold on a consistent basis throughout a particular region (San Joaquin Valley APCD 2015). Because the AAQS are focused on achieving a particular concentration of pollution region-wide, an air district's tools and plans for attaining the AAQS are regional in nature (San Joaquin Valley APCD 2015). For instance, the computer models used to simulate and predict an attainment date for the O_3 or PM NAAQS in the San Joaquin Valley are based on regional inputs, such as regional inventories of precursor pollutants (NO_x, SO_x and VOCs) and the atmospheric chemistry and meteorology of the San Joaquin Valley (San Joaquin Valley APCD 2015). At a very basic level, the models simulate future O_3 or PM levels based on predicted changes in precursor emissions San Joaquin Valley Air Basin-wide (San Joaquin Valley APCD 2015). Because the AAQS are set levels necessary to protect human health, the closer a region is to attaining a particular AAQS, the lower the human health impact is from that pollutant (San Joaquin Valley APCD 2015).

The goal of these modeling exercises is not to determine whether the emissions generated by a particular factory or development project will affect the date that the San Joaquin Valley Air Basin attains the AAQS (San Joaquin Valley APCD 2015). Rather, the San Joaquin Valley APCD's modeling and planning strategy is regional in nature and based on the extent to which all of the emission-generating sources in the San Joaquin Valley Air Basin (current and future) must be controlled in order to reach attainment (San Joaquin Valley APCD 2015).

Correlation to Health Effects

The San Joaquin Valley APCD ties the difficulty of correlating the emission of criteria pollutants to health impacts to how O_3 and PM are formed, as explained above. According to San Joaquin Valley APCD, "even once a model is developed to accurately ascertain local increases in concentrations of photochemical pollutants like O_3 and some particulates, it remains impossible, using today's models, to correlate that increase in concentration to a specific health impact [because] such models are designed to determine regional, population-wide health impacts, and simply are not accurate when applied at the local level" (San Joaquin Valley APCD 2015).

South Coast AQMD used O_3, which is formed from the chemical reaction of NO_x and VOCs in the presence of sunlight, as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but very large, regional-scale projects. First, forming O_3 "takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources" (South Coast AQMD 2015). Second, "it takes a large amount of additional precursor emissions (NO_x and VOCs) to cause a modeled increase in ambient ozone levels over an entire region," with a 2012 study showing that "reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the South Coast AQMD's monitor site with the highest levels by only 9 parts per billion" (South Coast AQMD 2015). South Coast AQMD thus concludes that it "does not currently know of a way to accurately quantify O_3-related health impacts caused by NO_x or VOC emissions from relatively small projects" (South Coast AQMD 2015).

Essentially, South Coast AQMD takes the position that a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient O_3 levels may not be detected in the regional air quality models that are currently used to determine O_3 levels; thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from O_3 (South Coast AQMD 2015). Therefore, lead agencies that use South Coast AQMD 's thresholds of significance may determine that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts.

Effects on Number of Nonattainment Days

In regard to regional concentrations and air basin attainment, the San Joaquin Valley APCD emphasized that attempting to identify a change in background pollutant concentrations that can be attributed to a single project, even one as large as the entire Friant Ranch Specific Plan, is a theoretical exercise. The San Joaquin Valley APCD brief noted that it "would be extremely difficult to model the impact on NAAQS attainment that the emissions from the Friant Ranch project may have" (San Joaquin Valley APCD 2015). The situation is further complicated by the fact that background concentrations of regional pollutants are not uniform either temporally or geographically throughout an air basin, but are constantly fluctuating based upon meteorology and other environmental factors. As discussed above, the currently available modeling tools are equipped to model the impact of all emission sources in the San Joaquin Valley Air Basin on attainment (San Joaquin Valley APCD 2015). The San Joaquin Valley APCD

brief then indicated that, "Running the photochemical grid model used for predicting O_3 attainment with the emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NO_x and VOC in the Valley) is not likely to yield valid information given the relative scale involved" (San Joaquin Valley APCD 2015).

Sacramento Metropolitan Air Quality Management District

As previously discussed, the Sacramento Metropolitan AQMD is one of two California air districts to date to formally release guidance (Interim Recommendation in April 2019 and Final Guidance in October 2020) for lead agencies and practitioners preparing CEQA documents for projects to comply with the Friant Ranch decision. The Sacramento Metropolitan AQMD *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District* fully details how projects should address the Friant Ranch ruling within the 5-Air-District Region (i.e., Sacramento Metropolitan AQMD, Yolo-Solano AQMD, Placer County APCD, El Dorado County AQMD, and Feather River AQMD) (Sacramento Metropolitan AQMD 2020a). This guidance provides insight on the health effects that may result from a project emitting at the maximum thresholds of significance (TOS) levels in the 5-Air-District Region for NO_x, VOCs, and PM, in addition to levels of CO and SO_x calculated proportional to NO_x; provides look-up tables for estimating health effects for strategic areas where growth exceeding thresholds of significance is anticipated; provides modeling guidance for CEQA projects that have emissions in excess of the significance thresholds and are located outside the strategic areas modeled; and provides information on disclosing health effects in an overall health context in a CEQA document.

In support of the formal guidance, in December 2020, the Sacramento Metropolitan AQMD released the *Minor Project Health Effects Screening Tool* and *Strategic Area Project Health Effects Screening Tool* (Sacramento Metropolitan AQMD 2020b) which were developed to estimate health effects for proposed projects within the 5-Air-District Region. For the minor project tool, the user inputs the location of the proposed project in latitude and longitude coordinates using decimal degrees and the tool assumes the maximum TOS (i.e., 82 pounds per day of ROG, NO_x, and $PM_{2.5}$). For the strategic area project health effects tool, the user inputs estimated daily ROG, NO_x, and $PM_{2.5}$ emissions up to 8 times the TOS (i.e., 656 pounds per day of ROG, NO_x, and $PM_{2.5}$) as well as the representative strategic area location. The non-screening option the Sacramento Metropolitan AQMD guidance outlines is the same or similar approach taken in the six available HIAs noted below in "Health Impact Assessments" (i.e., using a PGM and BenMAP for a specific project).

Application of the Sacramento Metropolitan AQMD screening analysis is not appropriate for the project because activities and associated emissions largely occur outside of the region evaluated in the 5-Air-District guidance.

Bay Area Air Quality Management District

In 2022, the Bay Area AQMD released "health effects assessment for criteria air pollutants" guidance to address the Friant Ranch case as part of their 2022 CEQA Guidelines. The following text is the quoted from the Bay Area AQMD guidance (Bay Area AQMD 2022):

"To comply with the Friant Ranch decision, lead agencies need to sufficiently explain the nature and magnitude of significant impacts identified by criteria air pollutant and precursor air quality analyses such that readers can meaningfully understand them. Moreover, lead agencies must make a reasonable effort to connect a project's

emissions, where significant, to foreseeable health impacts or provide evidence as to why such an analysis is not scientifically possible.

To demonstrate compliance with the Friant Ranch decision, lead agencies should structure the analyses of criteria air pollutant and precursor impacts as follows:

1. Introduce and describe the potential adverse health effects related to exposure to various criteria air pollutants and precursors in exceedance of the NAAQS and CAAQS, both acutely and chronically.

2. Describe the development and use of mass emissions thresholds using substantial evidence provided in the Air District's thresholds justification report.

   > *Lead agencies must describe the rationale behind the thresholds of significance for evaluating criteria air pollutant and ozone precursor emissions (see Appendix A, Thresholds of Significance Justification). These project-level mass emissions thresholds are developed in consideration of long-term air quality planning in the SFBAAB and are designed to capture excess emissions that would inhibit attainment of the NAAQS and CAAQS for various pollutants. Projects that exceed these mass emissions thresholds, whether before mitigation or following application of mitigation measures, may contribute emissions that would degrade the ambient air quality of the SFBAAB and expose receptors to concentrations of criteria air pollutants found by EPA and CARB to be hazardous to human health. Lead agencies must make a good-faith effort to explain the connection between the thresholds of significance, long-term air quality planning, NAAQS and CAAQS, and the potential for adverse human health impacts to occur from a project's emissions contribution given that neither the NAAQS or CAAQS are not health impact thresholds below which no significant health impacts are expected.*

3. Provide a meaningful and understandable narrative of ozone and secondary PM formation.

4. Explain the approach used, including the applicability and limitations of modeling tools, to translate project emissions into health impacts or explain why it was not scientifically feasible to do so.

   > *Various modeling tools are available to estimate project-level emissions (e.g., CalEEMod). Additionally, EMFAC generates emissions estimates from transportation sources using factors that account for various state and federal regulations that affect gasoline and diesel fuel consumption, as well as the deployment of electric vehicles throughout the state. However, these models do not predict the locations of exceedances of the NAAQS or CAAQS from one project's emissions alone.*
   >
   > *Photochemical grid-based models simulate the chemical interactions and three-dimensional dispersion patterns on a regional, statewide, and national scale. These models are complex and require significant expertise, knowledge, and resources as they build on other third-party models and processing tools that characterize meteorology, emissions, and other environmental conditions, such as land cover, radiative properties, and boundary conditions. Use of these models is typically beyond the resources available for air quality analysis prepared pursuant to CEQA, and even if such an analysis was to be completed consideration would need be given to ensure the results would be meaningful based on modeling and data limitations.*

> *The Environmental Benefits Mapping and Analysis Program (BenMAP) is an open-source computer program that calculates the number and economic value of air pollution–related death and illnesses. BenMAP relies on national data such as age, health, and economic conditions, to characterize and map health impacts associated with air pollution exposure. Data applicability should be considered to determine whether the model may be appropriate for an air quality analysis prepared pursuant to CEQA and if such an analysis would provide meaningful results based on modeling and data limitations.*

5. If scientifically feasible, tie the project's emissions to potential negative health impacts if emissions would exceed mass emissions thresholds, both before and after implementing mitigation measures."

City of Los Angeles

The City of Los Angeles Department of City Planning, along with its Technical Advisory Panel of air quality consultants, prepared a guidance document on Air Quality and Health Effects to address the Friant Ranch case. The City of Los Angeles's Health Effects guidance document includes an introduction, background and methodology that discusses CEQA thresholds of significance and available models, various air quality and health effects considerations including health effects addressed in plans and regulatory standards, health effects of criteria pollutants and TACs, and relating adverse air quality impacts and health effects conclusions.

The introduction explains that, "This paper provides information to the public regarding health consequences associated with exposure to air pollutants and explains why direct correlation of a project's pollutant emissions and anticipated health effects is currently infeasible, as no expert agency has approved a quantitative method to reliably and meaningfully translate mass emission estimates of criteria air pollutants to specific health effects for the scale of projects typically analyzed in City EIRs" (City of Los Angeles 2019).

The City's guidance continues to state that, "directly correlating a single project's emissions in a typical City EIR to quantifiable human health consequences is currently not scientifically feasible, as it is not possible to conduct such an analysis that would provide reliable or meaningful results. … it is also infeasible to correlate regional emissions from local area-wide projects or plans identified in City EIRs to quantified human health consequences in any reliable or meaningful way, for many of the same reasons, and with additional challenges associated with separating and anticipating reasonably foreseeable emissions from other sources." (City of Los Angeles 2019)

Association of Environmental Professionals – Climate Change Committee

The California Association of Environmental Professionals Winter 2020 Environmental Monitor newsletter included an article titled, "We Can Model Regional Emissions, But Are the Results Meaningful for CEQA?" written by members of the AEP Climate Change Committee, which consists of air quality and climate change experts at environmental consulting firms. The article addresses the Friant Ranch case and HIAs that use PGMs and BenMAP to estimate health impacts from increases in concentrations of O_3 and $PM_{2.5}$.

The article acknowledges that it is technically feasible to conduct regional-scale criteria air pollutant modeling for an individual project, but highlights the limitations of regional-scale dispersion models such as low resolution and spatial averaging that produces "noise" and model uncertainty that can exceed a project's specific emissions, and that regional-scale models are highly contingent upon background concentrations where factors such as

meteorology and topography greatly affect the certainty levels of predicted concentrations at receptor points. As a result, there are statistical ranges of uncertainty through all the modeling steps. Due to these factors, it is difficult to predict ground-level secondary PM and O_3 concentrations associated with relatively small emission sources with a high degree of certainty. (AEP 2020)

The article also highlights limitations and uncertainties of BenMAP. For example, regional models assign the same toxicity to PM regardless of the source of PM (such as road dust and exhaust), and thus potentially overpredict adverse health effects of PM. BenMAP also assumes that health effects can occur at any concentration, including small incremental concentrations, and assumes that impacts seen at large concentration differences can be linearly scaled down to small increases in concentration, with no consideration of potential thresholds below which health impacts may not occur. Additionally, BenMAP is used for assessing impacts over large areas and populations and was not intended to be used for individual projects. For health incidences, the number of hospitalizations or increase in morbidity predicted by BenMAP is greatly affected by the population characteristics. The article explains that small increases in emissions in an area with a high population have a much greater affect than large increases in emissions over an area with a small population. As a result, the same amount of emissions generated in an urban area could result in greater health consequences than if the same emissions occurred on the urban periphery, where fewer people may be affected. (AEP 2020)

The article then concludes that, "Given the margin of uncertainty at each step in the process (regional scale modeling, existing ambient air quality effects on health, population health conditions vulnerability, and marginal health effects of air pollution), the identification of marginal health effects due to individual projects using regional air quality modelling and tools such as BenMap are likely to be within the level of uncertainty and thus defined as "speculative" per CEQA" (AEP 2020).

Health Impact Assessments

At the time of writing, no specific tools have been developed for use in CEQA documents to connect criteria air pollutant emissions from an individual project to specific health effects in response to Friant Ranch outside of the Sacramento Metropolitan AQMD guidance 5-AirDistrict region. However, it has been demonstrated to be technically feasible to use existing regional models and an existing health effect modeling program to evaluate individual projects, which has been conducted for a few projects. The following CEQA documents included a quantitative HIA to address Friant Ranch:

1. California State University Dominguez Hills 2018 Campus Master Plan EIR (CSUDH MP) (Cal State University Dominguez Hills 2019)

2. World Logistics Center Revised Final EIR (WLC) (Moreno Valley 2019)

3. March Joint Powers Association K4 Warehouse and Cactus Channel Improvements EIR (March JPA K4) (March JPA 2019)

4. San Diego State University Mission Valley Campus Master Plan EIR (SDSU) (San Diego State University 2019)

5. Mineta San Jose Airport Amendment to the Airport Master Plan EIR (San Jose Airport) (City of San Jose 2019)

6. City of Inglewood Basketball and Entertainment Center Project EIR (IBEC) (City of Inglewood 2019)

The first step in all the six above listed examples included running a regional PGM, such as the Community Multiscale Air Quality (CMAQ)[4] model or the Comprehensive Air Quality Model with extensions (CAMx)[5] to estimate the increase in concentrations of O_3 and $PM_{2.5}$ as a result of project-generated emissions of criteria and precursor pollutants. Air districts use photochemical air quality models for regional air quality planning. These photochemical models are large-scale air quality models that simulate the changes of pollutant concentrations in the atmosphere using a set of mathematical equations characterizing the chemical and physical processes in the atmosphere (EPA 2023d).

After estimating the increase in concentrations of O_3 and $PM_{2.5}$, the second step in the six examples includes use of BenMAP or BenMAP-CE to estimate the resulting associated health effects. BenMAP estimates the number of health incidences resulting from changes in air pollution concentrations (EPA 2023f). The health impact function in BenMAP-CE incorporates four key sources of data: (i) modeled or monitored air quality changes, (ii) population, (iii) baseline incidence rates, and (iv) an effect estimate. While BenMAP can estimate the health effects of emissions of VOC, NO_x, CO, SO_2, and $PM_{2.5}$, O_3 and $PM_{2.5}$ were determined to have the most critical health impacts and thus, were the pollutants evaluated to determine the project's health effects in four of the six examples (i.e., WLC, CSUDH MP, March JPA K4, and San Jose Airport). The current version of BenMAP-CE only has health impact functions associated with O_3 and $PM_{2.5}$, which is why the example HIAs using BenMAP-CE only quantitatively addressed O_3 and $PM_{2.5}$ related health outcomes. As such, all example HIAs focused on O_3 and $PM_{2.5}$.

BenMAP outputs include O_3- and PM-related health endpoints such as premature mortality, hospital admissions, and emergency room visits (City of San Jose 2019). BenMAP uses the following simplified formula to relate changes in ambient air pollution to certain health endpoints (City of San Jose 2019):

$$Health\ Effect = Air\ Quality\ Change \times Health\ Effect\ Estimate \times Exposed\ Population \times Background\ Health\ Incidence$$

Population characteristics are a key variable in the BenMAP estimate of health incidences. As such, small increases in emissions in an area with a high population may have a much greater affect than large increases in emissions over an area with a small population. While location and associated population is a key factor, making the six examples specific not only to the project-generated emissions, but also to the geographic location and underlying population estimates, the findings of the six examples are provided herein for context, particularly for the conclusions.

[4] The CMAQ modeling system includes state-of-the-science capabilities for conducting urban-to-regional-to-hemispheric scale simulations of multiple air quality issues, including tropospheric O_3, fine particles, TACs, acid deposition, and visibility degradation. CMAQ brings together three kinds of models: (1) Meteorological models to represent atmospheric and weather activities, (2) Emission models to represent man-made and naturally-occurring contributions to the atmosphere, and (3) An air chemistry-transport model to predict the atmospheric fate of air pollutants under varying conditions (EPA 2023e).

[5] CAMx is a three-dimensional grid-based Eulerian air quality model designed to estimate the formation and fate of oxidant precursors, primary and secondary particulate matter concentrations, and deposition over regional and urban spatial scales (e.g., over the contiguous U.S.) (EPA 2015a).

California State University Dominguez Hills 2018 Campus Master Plan EIR For the CSUDH MP, the proposed project retains the existing campus enrollment cap of 20,000 full-time-equivalent students, while providing a framework for development of the CSUDH's campus in a forward-looking manner that accommodates growth from the current enrollment of approximately 11,000 full-time-equivalent students to the maximum enrollment of 20,000 full-time-equivalent students over a planning horizon extending to 2035. The project is located within Los Angeles County within the South Coast Air Basin. For context, the maximum daily emissions of relevant pollutants generated by the CSUDH MP were estimated to be 482.6 pounds per day of VOC, 240.1 pounds per day of NO_x, 2.7 pounds per day of SO_2, and 79.5 pounds per day of $PM_{2.5}$.

The CSUDH MP presented HIA results in terms of an increase in health incidences and the increase in background health incidence for various health outcomes referred to as endpoints. The background health incidence is the actual incidence of health effects as measured in the local population in the absence of additional emissions from the project (CSUDH 2019).

The two highest $PM_{2.5}$-related health outcomes attributed to the CSUDH MP project-related increases in ambient air concentrations included mortality (10.31 incidences per year, 0.0032% in background health incidence) and asthma-related emergency room visits (4.38 incidences per year, 0.0033% in background health incidence). The remaining health endpoints, including asthma-related hospital admissions, all cardiovascular-related hospital admissions (not including myocardial infarctions), all respiratory-related hospital admissions, and nonfatal acute myocardial infarction ranged from 0.00044 to 2.44 incidences per year (0.00047% to 0.0014% in background health incidence) (CSUDH 2019).

O_3-related health outcomes attributed to the CSDUDH project-related increases in ambient air concentrations included respiratory-related hospital admissions (0.67 incidences per year, 0.00034% in background health incidence), mortality (0.28 incidences per year, 0.00013% in background health incidence), and asthma-related emergency room visits for any age range (lower than 3.38 incidences per year for all age groups, lower than 0.0058% percent in background health incidence for all age groups) (CSUDH 2019).

The CSUDH MP HIA then concluded that "for all these health endpoints, the number of estimated incidences is less than 0.0058% of the background health incidence. … When taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health impacts are negligible in a developed, urban environment" (CSUDH 2019).

World Logistics Center Revised Final EIR

The WLC is located within Moreno Valley within Riverside County and the South Coast Air Basin. The WLC assessed the construction and operation of 40,600,00 square feet of logistics facilities and associated infrastructure on 2,610 acres in the Rancho Belago area at the eastern end of Moreno Valley. For context, the maximum daily emissions of relevant pollutants generated by the WLC during combined construction and operations (unmitigated) were estimated to be 603 pounds per day of VOC, 1,818 pounds per day of NO_x, 10.07 pounds per day of SO_2, 1,150 pounds per day of CO, and 137 pounds per day of $PM_{2.5}$. With mitigation, the combined WLC construction and operations were estimated to generate 495 pounds per day of VOC, 1,459 pounds per day of NO_x, 10.07 pounds per day of SO_2, 1,238 pounds per day of CO, and 133 pounds per day of $PM_{2.5}$.

The two highest $PM_{2.5}$-related health outcomes attributed to the WLC project-related increases in ambient air concentrations from unmitigated emissions included mortality (15.19 incidences per year, 0.0047% in background

health incidence) and asthma-related emergency room visits (6.63 incidences per year, 0.0051% in background health incidence). The remaining health endpoints, including asthma-related hospital admissions, all cardiovascular-related hospital admissions (not including myocardial infarctions), all respiratory-related hospital admissions, and nonfatal acute myocardial infarction ranged from 0.52 to 3.17 incidences per year (0.00063% to 0.0029% in background health incidence) (Moreno Valley 2019).

O_3-related health outcomes attributed to the WLC project-related increases in ambient air concentrations from unmitigated emissions included respiratory-related hospital admissions (1.46 incidences per year, 0.00075% in background health incidence), mortality (0.69 incidences per year, 0.00033% in background health incidence), and asthma-related emergency room visits for any age range (lower than 8.20 incidences per year for all age groups, lower than 0.014% percent in background health incidence for all age groups) (Moreno Valley 2019).

The WLC HIA then concluded that "when taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health impacts are minimal in a developed, urban environment" (Moreno Valley 2019).

March Joint Powers Association K4 Warehouse and Cactus Channel Improvements EIR

The March JPA K4 project is located within Riverside County within the South Coast Air Basin. The proposed project involves the development of the five parcels on the 35.4-acre K4 Parcel with a 718,000-square-foot building conservatively assumed to be occupied by High-Cube ecommerce/fulfillment center use. The mitigated maximum daily operational emissions of relevant pollutants generated by the March JPA K4 were estimated to be 41.0 pounds per day of VOC, 253.0 pounds per day of NO_x, 1.4 pounds per day of SO_x, and 30.3 pounds per day of $PM_{2.5}$. The March JPA K4 HIA determined that, "for all these health endpoints, the number of estimated incidences is less than 0.0042% of the baseline number of incidences," and that "these health impacts are conservatively estimated, and the actual impacts may be zero" (March JPA 2019).

San Diego State University Mission Valley Campus Master Plan EIR

The SDSU project is located within the City of San Diego within the San Diego Air Basin. The SDSU project proposes construction and operation of the SDSU Mission Valley campus, stadium, parks, recreation, and innovation area to accommodate up to 15,000 full-time-equivalent students over time, resulting in a total student headcount of approximately 20,000 students. The maximum daily emissions of relevant pollutants generated by SDSU were estimated to be 314.1 pounds per day of VOC, 1,120.7 pounds per day of NO_x, 6.5 pounds per day of SO_2, and 205.9 pounds per day of $PM_{2.5}$ (SDSU 2019).

The $PM_{2.5}$-related health outcomes attributed to the SDSU project-related increases in ambient air concentrations included mortality (8.97 incidences per year, 0.0026% in background health incidence) and asthma-related emergency room visits (5.29 incidences per year, 0.0040% in background health incidence). The remaining health endpoints, including asthma-related hospital admissions, all cardiovascular-related hospital admissions (not including myocardial infarctions), all respiratory-related hospital admissions, and nonfatal acute myocardial infarction ranged from 0.00083 to 3.33 incidences per year (0.00223% to 0.00164% in background health incidence) (SDSU 2019).

O_3-related health outcomes attributed to the SDSU project-related increases in ambient air concentrations included respiratory-related hospital admissions (0.45 incidences per year, 0.0002% in background health incidence),

mortality (0.21 incidences per year, 0.00010% in background health incidence), asthma-related emergency room visits for age groups 0-17 (1.73 incidences per year, 0.003% percent in background health incidence), and asthma-related emergency room visits for age groups 18-99 (2.02 incidences per year, 0.002% percent in background health incidence) (SDSU 2019).

The SDSU HIA found that "health effects estimation using the log-linear method presumes that effects seen at large concentration differences can be linearly scaled down to small increases in concentration, with no consideration of potential thresholds below which health effects may occur; thus, this potentially overstates the potential effects. In summary, health effects are conservatively estimated, and the actual effects may be zero" (SDSU 2019).

Mineta San Jose Airport Amendment to the Airport Master Plan EIR

The San Jose Airport is located in Santa Clara County within the San Francisco Bay Area Air Basin. The San Jose Airport project includes amending the approved 2018 Airport Master Plan to a) shift the planning horizon year from 2027 to 2037, b) modifying future facility requirements at the airport to reflect updated demand forecasts, and c) modifying certain components of the airfield to reduce to potential for runway incursions (City of San Jose 2019). The estimated maximum daily incremental operational emissions of relevant pollutants generated by the San Jose Airport project were estimated to be -49.4 pounds per day of VOC, 5,325 pounds per day of NO_x, and 52 pounds per day of $PM_{2.5}$. However, the following emissions inventory was assumed for the HIA: 57.3 pounds per day of VOC, 5,643.0 pounds per day of NO_x, and 51.6 pounds per day of $PM_{2.5}$.

The San Jose Airport HIA estimated that the highest health endpoint from $PM_{2.5}$ was mortality at 4.46 incidences (0.0017% percent in background health incidence). All other $PM_{2.5}$-related health incidences ranged from 0.00022 to 1.89 (0.00027% to 0.0016% percent in background health incidence). For O_3-related health endpoints, the highest was emergency room visits for asthma, which was estimated to be 11.05 incidences (0.028% percent in background health incidence) for ages 0-17 and 14.59 incidences (0.019% percent in background health incidence) for ages 18-99 (City of San Jose 2019). Of the six examples discussed herein, the San Jose Airport resulted in the greatest O_3 incidences, which correlates with the estimated high emissions of O_3-precursors, specifically NO_x at 5,643 pounds per day. Nonetheless, the conclusion was that "when taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health impacts are negligible in a developed, urban environment" (City of San Jose 2019).

City of Inglewood Basketball and Entertainment Center Project EIR

The IBEC project HIA provides another important data point for consideration. The IBEC project consists of an arena designed to host the LA Clippers basketball team with up to 18,000 fixed seals for National Basketball Association games and up to 500 additional temporary seats for events such as family shows, concerts, conventions, corporate events, and non-LA Clippers sporting events. The IBEC project is located within Los Angeles County within the South Coast Air Basin. The IBEC EIR evaluated nine operational scenarios; across these multiple scenarios, the estimated maximum daily net increase in operational emissions of relevant pollutants was 94 pounds per day of VOC, 99 pounds per day of NO_x, 3 pounds per day of SO_x, and 89 pounds per day of $PM_{2.5}$.

The IBEC EIR analysis provided helpful context on using regional models for individual projects, as follows: "Generally, models that correlate criteria air pollutant concentrations with specific health effects focus on regulatory decision-making that will apply throughout an entire air basin or region. These models focus on the region-wide health effects of pollutants so that regulators can assess the costs and benefits of adopting a proposed regulation

that applies to an entire category of air pollutant sources, rather than the health effects related to emissions from a specific proposed project or source. Because of the scale of these analyses, any one project is likely to have only very small incremental effects which may be difficult to differentiate from the effects of air pollutant concentrations in an entire air basin. … For regional pollutants, it is difficult to trace a particular project's criteria air pollutant emissions to a specific health effect. Moreover, the modeled results may be misleading because the margin of error in such modeling is large enough that, even if the modeled results report a given health effect, the model is sufficiently imprecise that the actual effect may differ from the reported results; that is, the modeled results suggest precision, when in fact available models cannot be that precise on a project level" (City of Inglewood 2019).

For O_3-related health endpoints, emergency room visits for asthma was estimated to be 0.087 incidence per year for all studied age groups combined, 0.016 incidence per year of respiratory-related hospital admissions, and less than 0.02 incidence per year of mortality; the amount of estimated incremental health effects incidence is less than 0.0001% of the baseline number of health effects incidences in the study area.

A key finding from the IBEC HIA was that for $PM_{2.5}$-related health endpoints, due to the very small changes in ambient $PM_{2.5}$ concentrations as modeled by CMAQ, all of the estimated incremental health incidences were negative values. The IBEC HIA stated that this further confirms that the modeled $PM_{2.5}$ concentrations are within the model's margin of error, no meaningful conclusions can be reached on the specific health effects that may be caused by the proposed project O_3 precursor and $PM_{2.5}$ emissions, and health impacts may in fact be zero, and they would still be well within the models' margin of error (City of Inglewood 2019).

Summary

It is also important to note that while these results conclude that the project emissions do not result in a substantial increase in health incidences, the estimated emissions and assumed toxicity is also conservatively inputted into the HIA and thus, overestimate health incidences, particularly for $PM_{2.5}$. For example, as discussed in the San Jose Airport HIA, "the USEPA has also stated that results from various studies have shown the importance of considering particle size, composition, and particle source in determining the health impacts of PM. Further, USEPA found that studies have reported that particles from industrial sources and from coal combustion appear to be the most significant contributors to PM-related mortality, consistent with the findings by Rohr and Wyzga and others. This is particularly important to note here, as the majority of PM emissions generated from the project are from entrained roadway dust, and not from combustion. Therefore, by not considering the relative toxicity of PM components, the results presented here are conservative" (City of San Jose 2019).

As explained in the San Joaquin Valley APCD brief and noted previously, running the PGM used for predicting O_3 attainment with the emissions solely from an individual project like the Friant Ranch project or the project is not likely to yield valid information given the relative scale involved. The six examples discussed herein support the San Joaquin Valley APCD's brief contention that consistent, reliable, and meaningful results may not be provided by methods applied at this time. Accordingly, additional work in the industry and more importantly, air district participation, is needed to develop a more meaningful analysis to correlate project-level mass criteria air pollutant emissions and health effects for decision makers and the public. Furthermore, at the time of writing, none of the HIAs that were reviewed has concluded that health effects estimated using the PGM and BenMAP approach are substantial provided that the estimated project-generated incidences represent a very small percent of the number of background incidences, potentially within the models' margin of error.

Co-Benefits Risk Assessment Health Impacts Screening and Mapping Tool

The U.S. EPA's COBRA health impacts screening and mapping tool can explore how changes in air pollution, specifically $PM_{2.5}$ and O_3, from a policy, program, or other action can affect human health at the county, state, regional, or national levels. COBRA also estimates the economic value of the health benefits associated with changes in air pollution. COBRA can map and visually represent the air quality, human health, and health-related economic impacts from emissions of $PM_{2.5}$, SO_2, NO_X, NH_3, and VOCs that result from an action. Built into COBRA are emissions inventories, a simplified air quality model, health impact equations, and economic valuations ready for use, based on assumptions that the U.S. EPA currently uses as reasonable best estimates (EPA 2024a).

COBRA estimates changes in total annual ambient concentrations of $PM_{2.5}$, including primary $PM_{2.5}$ emissions and the formation of secondary $PM_{2.5}$ from precursor pollutants, such as SO_2, NO_x, NH_3, and VOCs. With the release of version 5.0 in 2024, COBRA now also estimates the impacts of changes in O_3 formation as a result of changes in pollutants assessed by the model, specifically NO_x and VOCs. COBRA uses a series of health impact functions, taken from the peer-reviewed epidemiological literature, to estimate how changes in outdoor air quality result in changes in the incidence of a variety of health outcomes (e.g., premature mortality, heart attacks, asthma exacerbation, lost workdays). Incidence refers to the number of new cases of a health outcome over a specified time period. Finally, COBRA multiplies the change in incidence for each health outcome by a monetary value specific to that outcome. COBRA outputs the Health Effects and Valuation Results which includes a table of nationwide results as COBRA calculates health benefits in all counties in the contiguous United States due to the transport of outdoor air pollutants between counties and states. Accordingly, results are available for a particular state or county and are also provided in map form. Both the table and the map provide county-level changes in air quality (e.g., total annual average $PM_{2.5}$ concentration in $\mu g/m^3$), incidence of each health endpoint, and associated economic values. COBRA provides estimates on changes in mortality, infant mortality, nonfatal heart attacks, respiratory hospital admissions, cardiovascular hospital admissions, acute bronchitis, emergency room visits, work loss days, and asthma exacerbation. (EPA 2024a)

The change in incidence is not necessarily a whole number because COBRA calculates small statistical risk reductions that are then aggregated over the entire population. Estimates of health impacts have a direct relationship with population density: areas with higher population density tend to see higher health benefits of reduced emissions than less dense areas (EPA 2024a). This is because there are more people breathing cleaner air in the areas with higher population density. The reverse would also be true where areas with higher population density tend to see higher adverse health consequences of increased emissions compared to less dense areas.

COBRA contains detailed emission estimates of $PM_{2.5}$, SO_2, NO_X, and VOCs for the year 2016, and detailed projections for 2023 and 2028 as developed by the U.S. EPA. Users create their own scenario by specifying increases or decreases to one of the three baseline emission estimates - 2016, 2023, or 2028 (EPA 2024a). These baselines account for federal and state regulations as of May 2018.

EPA states that those who should use COBRA includes but is not limited to "analysts looking to improve their understanding of the air, health, and related economic benefits of clean energy or other policies that reduce emissions" and "environmental agencies interested in reviewing many options to identify policies that maximize health and economic benefits" (EPA 2024b). COBRA was originally developed by Abt Associates Inc. in 2002 and updated in 2012, 2017, 2020, 2021, and 2024 (EPA 2024a). COBRA is based on rigorous methods used by EPA health benefits assessments and adapted for use as a screening model.

Based on the EPA records of COBRA citations, it was used by at least approximately 150 publications as of April 24, 2024. Many of the publications evaluated programs, policies, or large areas of potential effect such as statewide efforts. The only environmental analysis was an Environmental Impact Statement for New York State's procurement of offshore wind energy; no CEQA analyses were cited (EPA 2024c). This publication list supports EPA's statement that COBRA is a valid modeling tool for state and local governments to (1) better understand the potential for clean energy to enhance air quality, health, and well-being, (2) design or select program options that maximize benefits, (3) build support for clean energy investments based on the air quality and health benefits, (4) narrow a list of policy options to those that should be evaluated using more sophisticated air quality models, (5) present information about localized health benefits in easy–to–interpret tables and maps, and (6) support a balanced decision-making process that considers both the potential costs and benefits of policy options (EPA 2024d). However, this publication list also supports that COBRA is better fit for broad analyses, such as policies and programs undertaken by state governments, rather than a CEQA analysis for an individual project.

In EPA's COBRA Questions and Answers, it addresses the question of "what is the difference between COBRA and BenMAP?" (BenMAP described in the above sections) and states that, "The key difference between BenMAP and COBRA is that COBRA has a built-in, reduced-form air quality model, while BenMAP does not. To convert changes in air pollution to changes in air quality, a tool will need an air quality model. Because BenMAP does not have this built-in model, it requires inputs of the changes in air quality rather than emissions. BenMAP users can utilize standalone air quality models, such as the Community Multi-scale Air Quality Model (CMAQ), to determine air quality changes. Additionally, BenMAP can be used to analyze health impacts at a finer geographic resolution than COBRA, depending on the scale of the air quality data that users provide. BenMAP also includes preloaded population and baseline health incidence data forecasts for all years out to 2050. COBRA only analyzes health impacts at the county-level and baseline health incidence data for 2016, 2023, and 2028. However, the desktop edition of COBRA also has advanced features that allow the user to import inputs for other years. Apart from these differences, COBRA and BenMAP both use the same approach to estimating health impacts, and both tools use the same default concentration-response functions and economic valuation functions for their calculations." (EPA 2024e)

5 Evaluation of the Project's Health Effects

Based on the evaluation of methods available provided in Section 4, this evaluation does not attempt to quantify health effects, but builds upon the discussion provided in Sections 2 and 3 to disclose potential health effects associated with the project. As explained in Section 2, the EPA and CARB have established AAQS at levels above which concentrations could be harmful to human health and welfare, with an adequate margin of safety. Further, California air districts have established emission-based thresholds that provide project-level estimates of criteria air pollutant quantities that air basins can accommodate without affecting the attainment dates for the AAQS. Accordingly, elevated levels of criteria air pollutants as a result of a project's emissions could cause adverse health effects associated with these pollutants.

Construction and operation of the project would not result in exceedances of regional thresholds for emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$.

As discussed in above, health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue. VOCs and NO_x are precursors to O_3 and the contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations due to O_3 precursor emissions tend to be found downwind of the source location because of the

time required for the photochemical reactions to occur. Further, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the VOC emissions would occur, because exceedances of the O_3 NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. As described above, due to the lack of quantitative methods to assess this complex photochemistry, the holistic effect of a single project's emissions of O_3 precursors is speculative.

Health effects associated with NO_x and NO_2 (which is a constituent of NO_x) include lung irritation and enhanced allergic responses. Project-related NO_x emissions would not exceed the applicable NO_x thresholds. However, all those air districts are designated as attainment areas for NO_2 (and NO_2 is a constituent of NO_x). Accordingly, project-generated NOx emissions may not cause an exceedance of the NAAQS and CAAQS for NO_2 or result in potential health effects associated with NO_2 and NO_x.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness. CO tends to be a localized impact associated with congested intersections. The potential for CO hotspots is discussed under Impact AQ-3 in the main report and determined to be less than significant. Thus, the project's CO emissions would not contribute to significant health effects associated with CO.

Health effects associated with PM_{10} and $PM_{2.5}$ include premature death and hospitalization, primarily for worsening of respiratory disease. Project-related PM_{10} emissions would not exceed the applicable PM_{10} threshold.

While the above scientific and technological constraints present considerable doubt that quantifying health effects for individual CEQA projects may not accurately and meaningfully inform the public of how project-generated bare numbers (i.e., estimated criteria air pollutant emissions) translate to create potential adverse health effects, due to the size and scale of the project, additional analysis is presented below for emissions occurring within Lassen County, Tuolumne County, and San Joaquin County, where the two pellet facilities and the Port of Stockton are located, respectively, as well as for all project emissions within the State.

Co-Benefits Risk Assessment Health Impacts Screening and Mapping Tool Results

To estimate the potential health effects of the project, the US EPA's COBRA screening model was used to estimate how changes in air pollution from the project can affect human health at the county, state, regional, or national levels (EPA 2021). (COBRA is explained in detail above). The analysis year of 2028 was selected in COBRA as it is closest to the operational year in the project. Fresno County was selected for the location. To support this CEQA evaluation, the national level change in incidents rate was not included. The emissions estimated using the methodologies in Section 2.4.2 of the main report were assumed for each location. As this tool is based on long-term exposure and health effects, emissions from operation were used. A discount rate of 2% was selected as it is the default. COBRA assumes changes in adult mortality and non-fatal heart attacks occur over a 20-year period.

For Fresno County,[6] O_3 and $PM_{2.5}$ related health outcomes attributed to project-related increases in ambient air concentrations included asthma-related emergency room visits (0.00003 incidences per year), lung cancer incidence (0.000003 incidences per year), all cardiovascular-related hospital admissions (not including myocardial infarctions) (0.000002 incidences per year), all respiratory-related hospital admissions (0.0001 incidences per

[6] The COBRA inputs for mitigated annual criteria air pollutant emissions within Fresno County include the following: 0.02 per year VOC, 0.01 tons per year NO_x, 0.0004 tons per year SO_2, and 0.01 tons per year $PM_{2.5}$.

year), mortality (0.00004 incidences per year), and nonfatal acute myocardial infarction (less than 0.00003 incidences per year for all age groups). For context, between 2020-2022, the CDPH reported that Fresno County had an annual average of 6,890 mortalities from all causes and an age-adjusted death rate of 870.2 mortalities per 100,000 population (CDPH 2024).

In summary, although the project has the potential to result in health effects associated with emissions of criteria air pollutants as described above, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days, and methods available to quantitatively evaluate health effects may not be appropriate to apply to emissions associated with the project, which cannot be estimated with a high-level of accuracy. Nonetheless, additional information is provided to support impact conclusions in the air quality analysis that explains what is known and what is not given constraints.

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D2 BESS Charging Memorandum

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memorandum

date	July 10, 2025
to	Janna Scott, Project Manager
cc	File
from	Matt Fagundes, GHG Analyst
subject	Heartland Solar Project

Discussion

The Heartland Solar Project would include an energy storage facility with a capacity of 4 hours of 300 megawatts alternating current (MWac). In other words, the energy storage facility would be able to discharge up to 4 hours of 300 MWac power to the PG&E electricity grid every day. However, energy storage facilities are not completely efficient, meaning more electricity must be charged to the system than can be later discharged. Round-trip efficiency is the percentage of electricity put into storage that can be retrieved later. The higher the round-trip efficiency, the less energy is lost in the storage process. According to data from the U.S. Energy Information Administration, in 2019, the U.S. utility-scale battery fleet operated with an average monthly round-trip efficiency of 82 percent (TEF, 2025). Therefore, assuming this round-trip efficiency, the proposed system would require a charge of approximately 4.9 hours in order to later discharge 4.0 hours. This would result in a net consumption of PG&E grid electricity of approximately 0.9 hour per day or 320 hours per year of 300 MWac, which would equal approximately 96,146 megawatt hours (MWh)/year (see attached for calculations).

Applying GHG intensity factors per MWh used in the Heartland Solar AQ-GHG Technical Report (Dudek, 2025; see PDF page 365) to estimate displaced GHG emissions that would be associated with the Heartland Solar Plant, it is estimated that the total indirect GHG emissions generated associated with the net electricity consumption for the proposed energy storage facility would total approximately 46,992 metric tons of carbon dioxide equivalent (CO_2e) over the 30-year life of the Project, which would equal an amortized rate of approximately 1,566 metric tons CO_2e per year. Refer to the attachment for the energy and indirect GHG estimates that would be associated with the proposed Heartland Solar Project energy storage facility.

Energy and Indirect GHG Estimates

See tables attached.

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year	GHG Intensity Factors lbs CO2e/MWh	Emissions CO2e (metric tons)
2027	142.61	0
2028	134.69	0
2029	126.77	5,529
2030	118.84	5,183
2031	110.92	4,837
2032	103.00	4,492
2033	95.08	4,147
2034	87.15	3,801
2035	79.23	3,455
2036	71.31	3,110
2037	63.38	2,764
2038	55.46	2,419
2039	47.54	2,073
2040	39.61	1,727
2041	31.69	1,382
2042	23.77	1,037
2043	15.85	691
2044	7.92	345
2045	0	0
	Total	46,992.47
	Amortized (30 years)	1,566.42

Hours/Day Discharged	BESS Efficiency	Hours/Day Charged	Hours/Day Delta	Hours/Year Delta	MWs
4	82%	4.88	0.88	320.49	300

MWh/year	kWh/year
96,146	96,146,341

Appendix E
Biological Resources

E1 Biological Resources Reconnaissance Report

E2 Swainson's Hawk Survey Report

E3 Biological Resources Report

E4 Analysis of Impacts to Swainson's Hawk Nesting and Foraging Habitat

E5 Burrowing Owl Survey Report

E1 Biological Resources Reconnaissance Report

HEARTLAND HYDROGEN PROJECT

Biological Resources Reconnaissance Report

Prepared for
Fresno County Department of Public Works and Planning, Development Services and Capital Projects Division

May 2022

ESA

HEARTLAND HYDROGEN PROJECT

Biological Resources Reconnaissance Report

Prepared for
Fresno County Department of Public Works and Planning, Development Services and Capital Projects Division

May 2022

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D201900482.00

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Figure 2b Biological Resources 3-3

EXECUTIVE SUMMARY

Heartland Hydrogen, LLC and Heartland Solar 1, LLC propose to generate hydrogen fuel from renewable sources including solar photovoltaic (PV) power and treated wastewater. The hydrogen facility, solar facility, and water treatment facility together constitute the Heartland Hydrogen Project (Project). Hydrogen fuel production and solar energy generation would occur on Westlands Water District (WWD)- owned land in western Fresno County, and a tertiary wastewater treatment plant would be constructed in the City of Mendota at the existing Mendota wastewater treatment plant to provide recycled water needed for the hydrogen facility. The Project would rely on the PV solar cells to convert sunlight into electricity, which would be used to split the recycled water into hydrogen and oxygen (electrolysis). The Project also includes an electrical interconnection service line to the existing Tranquillity Switching Station.

The Fresno County portion of the Project site is located in an unincorporated area 10 miles east of Interstate 5. It is located east of Los Angeles Avenue, south of W. American Avenue, west of State Route 33 (SR 33, also called S. Derrick Avenue), north of Manning Avenue, and 1.25 miles north of the Tranquillity Switching Station. It also is located adjacent to the northern boundary of the proposed Sonrisa Solar facility and across SR 33 from the existing Adams East Solar facility. The City of Mendota portion of the Project site is within the fence line of the existing wastewater treatment plant located at 3699 Bass Avenue, Mendota. The term "Project site" as used in this report includes the Fresno County and City of Mendota portions of the Project site, including the electrical interconnection service line corridor.

The intent and scope of this report is to characterize biological resources in the areas that will be permanently or temporarily affected by the Project. The Study Area for this report includes the approximately 2,320-acre Project site, and suitable nest trees within 0.5 mile. The Fresno County portion of the Study Area consists primarily of disturbed and cultivated lands previously used for agricultural production; the City of Mendota portion of the Project site is within the fence line of the existing wastewater treatment plant. The heavily modified lands that make up the Project site do not support sensitive natural communities. State or federally-jurisdictional waters or wetlands also do not occur in the Study Area. Land covers observed during the survey included developed/disturbed lands, agricultural land, non-native annual grassland, and eucalyptus grove. Focused surveys for special-status plants and wildlife were not conducted as part of ESA's reconnaissance-level review; however, such species were noted when encountered.

One reconnaissance-level survey was conducted in April 2022 to characterize biological resources in the Study Area. No special-status plant species were observed, nor are any expected due to the high level of disturbance of the Project site lands. Special-status wildlife species with potential to occur in the Study Area include Swainson's hawk (observed), tricolored blackbird, San Joaquin kit fox, loggerhead shrike (observed), western burrowing owl, American badger,

western red bat, and greater western mastiff bat. Mature eucalyptus, tamarisk and willow trees within the Study Area contained actively nesting birds including Swainson's hawk, loggerhead shrike, and great horned owl, as well as other smaller birds. The Study Area is not located within critical habitat for any species. Due to the restrictions for wildlife movement, the Study Area is not likely to be used as a wildlife movement corridor.

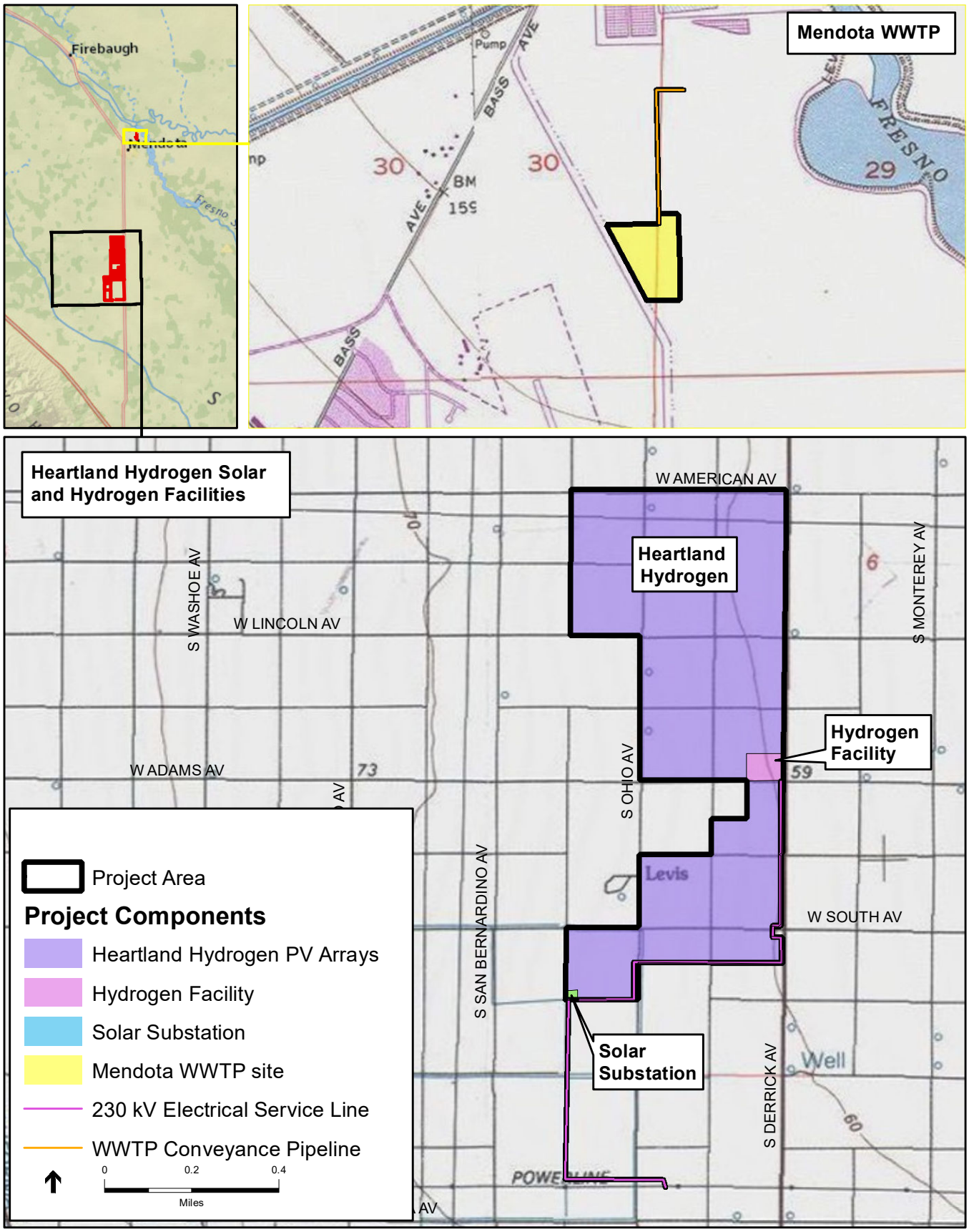
CHAPTER 1
Introduction

1.1 Background and Purpose

This report presents the findings of a reconnaissance-level biological resources survey that was performed on April 6, 2022, to identify potential presence and habitat for of common and special-status plant and wildlife species, nesting birds, and sensitive natural communities at the proposed Heartland Hydrogen Project site in Fresno County, California. The intent and scope of this document is to characterize these biological resources in the area and provide recommendations to avoid and minimize potential impacts to sensitive resources, when present.

1.2 Property Location

The Project site is located in the San Joaquin Valley in the Coit Ranch and Mendota Dam, California 7.5-minute U.S. Geological Survey quadrangles. Specifically, the Fresno County portion of the Project site is bounded by West American Avenue to the north, Los Angeles Avenue to the west, and Manning Avenue to the south, and SR-33 to the east. The City of Mendota portion of the Project site is located within the City's existing wastewater treatment plan at 2699 Bass Avenue. See **Figure 1**.



SOURCE: USGS 7.5' Topographic Quadrangle (Coit Ranch, CA; Levis, CA; Mendota Dam, CA)

Heartland Hydrogren Project. 201900482

Figure 1
Project Area

CHAPTER 2
Regulatory Context

Biological resources in the Study Area may fall under the jurisdiction of various regulatory agencies. The following federal, State, and local laws, ordinances and regulations apply to biological resources in the Study Area.

2.1 Federal

Endangered Species Act of 1973, as amended (16 U.S.C. §§1531-1543)

The federal Endangered Species Act of 1973 (FESA) and subsequent amendments provide guidance for the conservation of endangered and threatened species and the ecosystems upon which they depend. In addition, the FESA defines species as threatened or endangered and provides regulatory protection for listed species. The FESA also provides a program for the conservation and recovery of threatened and endangered species as well as the conservation of designated critical habitat that the United States Fish and Wildlife Service (USFWS) determines is required for the survival and recovery of these listed species.

Section 9 lists those actions that are prohibited under the FESA. The definition of "take" includes to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. Although unauthorized take of a listed species is prohibited, take may be allowed when it is incidental to an otherwise legal activity. Section 9 prohibits take of listed species of fish, wildlife, and plants without special exemption. The definition of "harm" includes significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns related to breeding, feeding, or shelter. "Harass" is defined as actions that create the likelihood of injury to listed species by disrupting normal behavioral patterns related to breeding, feeding, and shelter significantly.

Section 10 provides a means whereby a nonfederal action with the potential to result in take of a listed species can be allowed under an incidental take permit.

Migratory Bird Treaty Act (16 U.S.C. §§703-711)

The Migratory Bird Treaty Act (MBTA) is the domestic law that affirms and implements a commitment by the U.S. to four international conventions (with Canada, Mexico, Japan, and Russia) for the protection of a shared migratory bird resource. Unless and except as permitted by regulations, the MBTA makes it unlawful at any time, by any means, or in any manner to intentionally pursue, hunt, take, capture, or kill migratory birds anywhere in the United States. The

law also applies to disturbance and removal of nests occupied by migratory birds or their eggs during the breeding season, whether intentional or incidental.

Bald and Golden Eagle Protection Act of 1940 (16 U.S.C. §668)

The federal Bald and Golden Eagle Protection Act protects bald and golden eagles by prohibiting the taking, possession, and commerce of such birds and establishes civil penalties for violation of this act. Take of bald and golden eagles includes to "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb" (16 U.S.C. §668c). "Disturb" means to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available: (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior (72 Fed. Reg. 31132; 50 CFR §22.3).

2.2 State

California Endangered Species Act (Fish and Game Code §2050 et seq.)

The California Endangered Species Act (CESA) establishes the policy of the state to conserve, protect, restore, and enhance threatened or endangered species and their habitats. The CESA mandates that state agencies should not approve projects that would jeopardize the continued existence of threatened or endangered species if reasonable and prudent alternatives are available that would avoid jeopardy. For projects that would affect a listed species under both the CESA and the FESA, compliance with the FESA would satisfy the CESA if the California Department of Fish and Wildlife (CDFW) determines that the federal incidental take authorization is "consistent" with the CESA under Fish and Game Code Section 2080.1. Before a project results in take of a species listed under the CESA, a take permit must be issued under Section 2081(b).

Fish and Game Code Sections 2080 and 2081

Section 2080 of the Fish and Game Code states, "No person shall import into this state [California], export out of this state, or take, possess, purchase, or sell within this state, any species, or any part or product thereof, that the [State Fish and Game] Commission determines to be an endangered species or threatened species, or attempt any of those acts, except as otherwise provided in this chapter, or the Native Plant Protection Act, or the California Desert Native Plants Act." Pursuant to Section 2081, CDFW may authorize individuals or public agencies to import, export, take, or possess state-listed endangered, threatened, or candidate species. These otherwise prohibited acts may be authorized through permits or Memoranda of Understanding, if the take is incidental to an otherwise lawful activity, impacts of the authorized take are minimized and fully mitigated, the permit is consistent with any regulations adopted pursuant to any recovery plan for the species, and the project operator ensures adequate funding to implement the measures required by CDFW. CDFW makes this determination based on available scientific information and considers the ability of the species to survive and reproduce.

Fish and Game Code Sections 3503, 3503.5, and 3513

Under these sections of the Fish and Game Code, a project operator is not allowed to conduct activities that would result in the taking, possessing, or destroying of any birds of prey; the taking or possessing of any migratory nongame bird; the taking, possessing, or needlessly destroying of the nest or eggs of any raptors or nongame birds; or the taking of any nongame bird pursuant to Fish and Game Code Section 3800, whether intentional or incidental.

California Environmental Quality Act Guidelines Section 15380

In addition to the protections provided by specific federal and state statutes, California Environmental Quality Act (CEQA) Guidelines Section 15380(b) provides that a species not listed on the federal or state list of protected species nonetheless may be considered rare or endangered for purposes of CEQA if the species can be shown to meet certain specified criteria:

(A) Although not presently threatened with extinction, the species is existing in such small numbers throughout all or a significant portion of its range that it may become endangered if its environment worsens; or

(B) The species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and may be considered "threatened" as that term is used in the Federal Endangered Species Act.

2.3 Local

Fresno County 2000 General Plan

The Fresno County General Plan (Fresno County 2000) outlines several policies intended for the protection of biological resources County-wide, including the following, which apply to the Project:

> ***Policy OS-E.1:*** The County shall support efforts to avoid the "net" loss of important wildlife habitat where practicable. In cases where habitat loss cannot be avoided, the County shall impose adequate mitigation for the loss of wildlife habitat that is critical to supporting special-status species and/or other valuable or unique wildlife resources. Mitigation shall be at sufficient ratios to replace the function, and value of the habitat that was removed or degraded. Mitigation may be achieved through any combination of creation, restoration, conservation easements, and/or mitigation banking. Conservation easements should include provisions for maintenance and management in perpetuity. The County shall recommend coordination with the U.S. Fish and Wildlife Service and the California Department of Fish and Game to ensure that appropriate mitigation measures and the concerns of these agencies are adequately addressed. Important habitat and habitat components include nesting, breeding, and foraging areas, important spawning grounds, migratory routes, migratory stopover areas, oak woodlands, vernal pools, wildlife movement corridors, and other unique wildlife habitats (e.g., alkali scrub) critical to protecting and sustaining wildlife populations.
>
> ***Policy OS-E.2:*** The County shall require adequate buffer zones between construction activities and significant wildlife resources, including both on-site habitats that are purposely avoided and significant habitats that are adjacent to the project site, in order to avoid the degradation and disruption of critical life cycle activities such as breeding and

feeding. The width of the buffer zone should vary depending on the location, species, etc. A final determination shall be made based on informal consultation with the U.S. Fish and Wildlife Service and/or the California Department of Fish and Game.

Policy OS-E.3: The County shall require development in areas known to have particular value for wildlife to be carefully planned and, where possible, located so that the value of the habitat for wildlife is maintained.

Policy OS-E.4: The County shall encourage private landowners to adopt sound wildlife habitat management practices, as recommended by the California Department of Fish and Game officials and the U.S. Fish and Wildlife Service.

Policy OS-E.9: Prior to approval of discretionary development permits, the County shall require, as part of any required environmental review process, a biological resources evaluation of the project site by a qualified biologist. The evaluation shall be based upon field reconnaissance performed at the appropriate time of year to determine the presence or absence of significant resources and/or special-status plants or animals. Such evaluation will consider the potential for significant impact on these resources and will either identify feasible mitigation measures or indicate why mitigation is not feasible.

Policy OS-F.5: The County shall establish procedures for identifying and preserving rare, threatened, and endangered plant species that may be adversely affected by public or private development projects. The County shall require, as part of the environmental review process, a biological resources evaluation of the project site by a qualified biologist. The evaluation shall be based on field reconnaissance performed at the appropriate time of year to determine the presence or absence of significant plant resources and/or special-status plant species. Such evaluation shall consider the potential for significant impact on these resources and shall either identify feasible mitigation measures or indicate why mitigation is not feasible.

Policy OS-F.7: The County should encourage landowners to maintain natural vegetation or plant suitable vegetation along fence lines, drainage and irrigation ditches and on unused or marginal land for the benefit of wildlife.

Policy LU-B.13: In conjunction with environmental reviews under CEQA, the County shall require applicants to identify biological resources to determine if there are sensitive and/or important flora and fauna that require special protection measures.

Program LU-A.C: The County shall develop and implement guidelines for design and maintenance of buffers to be required when new non-agricultural uses are approved in agricultural areas. Buffer design and maintenance guidelines shall include, but not be limited to, the following:

a. Buffers shall be physically and biologically designed to avoid conflicts between agriculture and non-agricultural uses.

b. Buffers shall be located on the parcel for which a permit is sought and shall protect the maximum amount of farmable land.

c. Buffers generally shall consist of a physical separation between agricultural and non-agricultural uses. The appropriate width shall be determined on a site-by-site basis taking into account the type of existing agricultural uses, the nature of the proposed

development, the natural features of the site, and any other factors that affect the specific situation.

d. Appropriate types of land uses for buffers include compatible agriculture, open space and recreational uses such as parks and golf courses, industrial uses, and cemeteries.

e. The County may condition its approval of a project on the ongoing maintenance of buffers.

Fresno County Code

Chapter 13.12 – Trees and Shrubs: This section establishes permit rules for tree planting and landscaping, including species of trees, planting locations and irrigation regimes.

City of Mendota General Plan

Goal OSC – 7: Preservation of important ecological and biological resources, including habitat for flora and fauna.

Policy OSC-7.1: The City shall require a biological resources evaluation for private and public development projects in areas identified to contain or possibly contain listed plant and/or wildlife species based upon the City's biological resource mapping provided in the General Plan EIR or other technical materials. This evaluation shall be conducted prior to the authorization of any ground disturbance.

Policy OSC-7.2: For those areas in which special status species are found or likely to occur or where the presence of species can be reasonably inferred, the City shall require mitigation of impacts to those species. Mitigation shall be designed by the City in coordination with USFWS and the California Department of Fish and Game (CDFG), and shall emphasize a multi-species approach to the maximum extent feasible. This may include development or participation in a habitat conservation plan.

Policy OSC-7.3: The City shall encourage creation of habitat preserves that are immediately adjacent to each other in order to provide interconnected open space areas for animal movement.

Policy OSC-7.4: The City shall adopt and maintain a Noxious Weed Ordinance. The Noxious Weed Ordinance shall include regulatory standards for construction activities that occur adjacent to natural areas to inhibit the establishment of noxious weeds through accidental seed import.

Policy OSC-7.5 If habitat for Swainson's hawk is present, a protocol-level survey shall be conducted in accordance with Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (Swainson's Hawk Technical Advisory Committee 2000), to include the following:

1) Schedule construction activities to avoid nesting activities. The avian breeding window on average is between February 1 and August 30, which complies with the Migratory Bird Treaty Act and Section 3503.5 of the [Fish and Game Code], therefore construction activities should occur between September and January.

2) Conduct all vegetation clearing (including trees, shrubs and bushes) outside of the nesting season. If clearing of any vegetation and/or construction activities occur

during the avian breeding window, then preconstruction surveys for nesting raptors shall be conducted up to 30 days before construction. The qualified biologist shall survey the construction zone and a 100-foot radius surrounding the construction zone to determine whether the activities taking place have the potential to disturb or otherwise harm the nesting birds.

3) If an active nest is located within the 100-foot area surrounding the construction zone and construction must take place during the breeding season, a buffer zone shall be established by the biologist and confirmed by the appropriate resource agency and a qualified wildlife biologist shall monitor the nest to determine when the young have fledged and submit bi-weekly reports to City of Mendota Planning Department throughout the nesting season.

The biological monitor shall have the authority to cease construction if there is any sign of distress to the raptor. Reference to this requirement, the MBTA, and Section 3503.5 of the [Fish and Game Code] shall be included in the construction specifications.

Policy OSC-7.6: The City shall protect and preserve Swainson's hawk nesting and foraging habitat the implementation of the following:

1) Development of an ordinance that shall apply to projects that are five acres or more in size since this is recognized to be the minimum acreage required for viable Swainson's hawk foraging habitat.

2) The project Applicant shall acquire conservation easements or other instruments to preserve suitable foraging habitat for Swainson's hawk, as determined by [CDFW], on a 1:1 ratio.

3) For projects less than 40 acres in size, it may be infeasible to acquire easements for less than 40 acres and project proponents should have the option to mitigate adverse impacts to Swainson's hawk foraging habitat through the payment of an impact mitigation fee.

POLICY OSC-7.8 Encourage the recovery of Federal and State sensitive species and Local Species of Concern in accordance with The Recovery Plan for the San Joaquin Valley (USFWS 1998).

CHAPTER 3
Methods

3.1 Study Area

The Project site, consisting of the hydrogen and solar generation sites, the service line, and the Mendota wastewater treatment facility parcel constitute the Study Area for wildlife, plants, and natural communities (**Figure 2a and 2b**).

3.2 Survey Methodology

3.2.1 Survey Dates and Surveying Personnel

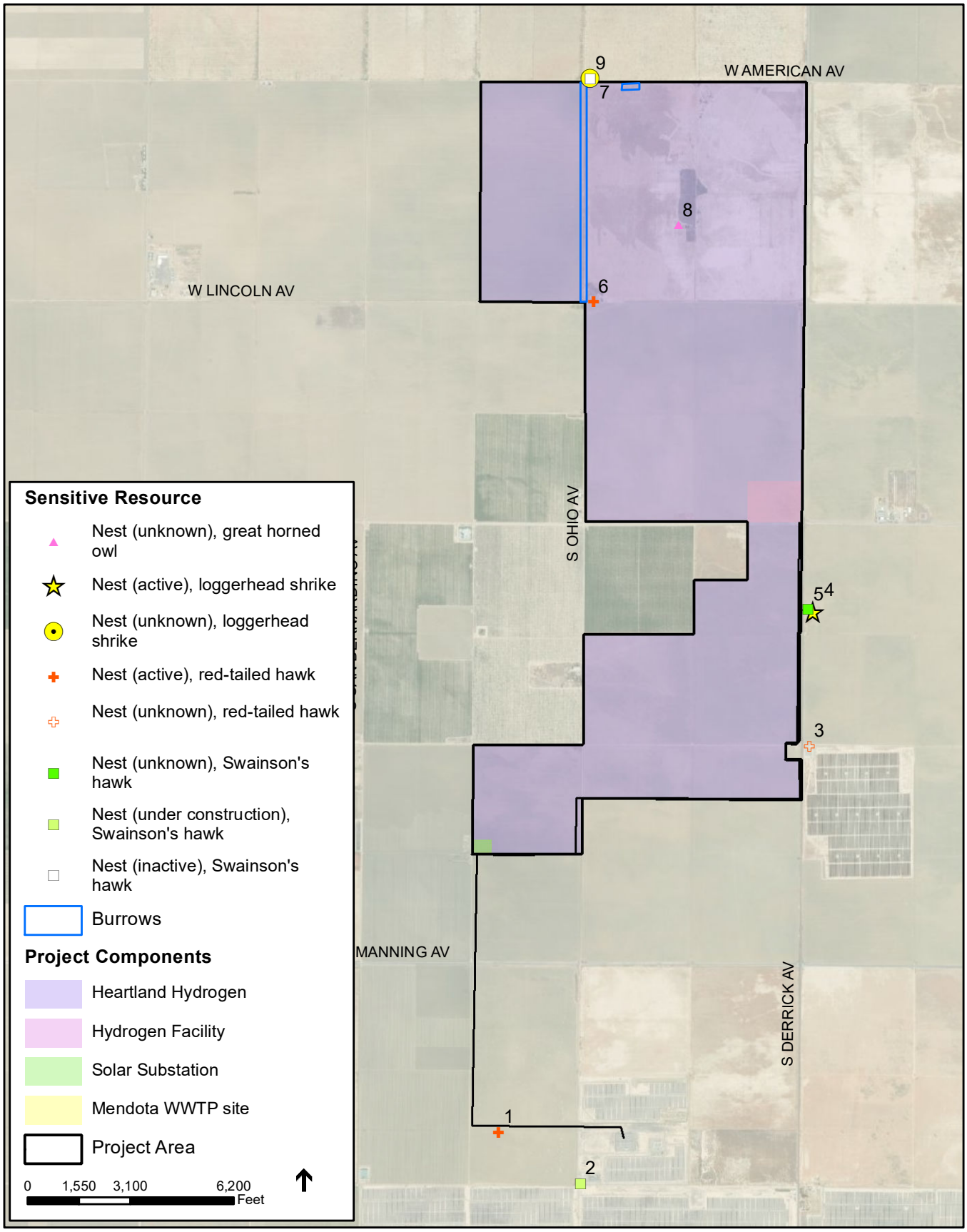
One reconnaissance-level survey was conducted to observe and characterize vegetation communities in the Study Area and to assess habitat quality and potential for common and special-status wildlife species. The survey was conducted by ESA biologists Leonard Liu and Liza Ryan on April 6, 2022. No focused USFWS protocol-level surveys were conducted for this report; however, in 2018, Dudek conducted focused surveys for rare plants, San Joaquin kit fox (*Vulpes macrotis mutica*), burrowing owl (*Athene cunicularia*), American badger (*Taxidea taxus*) and Swainson's hawk (*Buteo swainsoni*) (Dudek 2022). Heritage conducted protocol-level Swainson's hawk surveys in 2021 (Heritage 2021). Where they continue to be relevant, the 2018 and 2021 survey results are reflected in this biological report.

3.2.2 Habitat and Vegetation Surveys

Existing vegetation classification data was available for the Study Area from Dudek's 2018 vegetation and land cover surveys (Dudek 2022). ESA verified the accuracy of the 2018 survey during the April 2022 reconnaissance survey.

3.2.3 Wildlife Surveys

Wildlife surveys cataloged common and special-status wildlife species that were observed in the Study Area and characterized the potential presence of suitable habitat for such species. Wildlife surveys were conducted by qualified biologists by visual observation while walking or driving in the Study Area. All wildlife species that were encountered were recorded. Any special-status species encountered were mapped and GPS coordinates were collected for each occurrence. Active raptor and migratory bird nests observed were mapped and GPS coordinates were collected.



SOURCE: ESA 2022; ESRI 2022; Heartland Solar 1 2022

Heartland Hydrogren Project. 201900482

Figure 2a

Biological Resources

SOURCE: ESA 2022; ESRI 2022; Heartland Solar 1 2022

Heartland Hydrogren Project. 201900482

Figure 2b

Biological Resources

3.3 Review of Background Information

Prior to the reconnaissance survey, ESA reviewed publicly available and subscription-based biological resource data. Data sources that assisted in this analysis include:

- Historic and current aerial imagery (Google)
- California Wildlife Habitat Relationships (CWHR) database
- The CDFW California Natural Diversity Database (CNDDB) for Coit Ranch and surrounding 8 quadrangles
- USFWS Information for Planning and Consultation (IPaC) species list for the Project footprint
- The California Native Plant Society (CNPS) online database for Coit Ranch and surrounding 8 quadrangles
- Soil maps from the National Resource Conservation Service (NRCS)
- Previous biological surveys for Heartland (Dudek 2022; Heritage 2021), and the area surrounding the wastewater treatment facility (Wood 2020)

CHAPTER 4
Environmental Setting

This chapter provides the environmental baseline for natural communities, land cover, habitats, wetlands, and special-status plant and wildlife species in the Study Area. The Study Area consists of flat terrain approximately 185 to 195 feet above mean sea level (amsl) (Dudek 2022).

4.1 Natural Communities and Associated Wildlife Habitats

Community types identified in the Fresno County portion of the Study Area included non-native annual grassland and agricultural land (Dudek 2022). Developed/disturbed land cover is not considered a natural community type. The nearest area supporting natural habitats are the Mendota Wildlife Area and Fresno Slough (2.3 miles northeast) and the interior Coast Range (over 6 miles southwest, across Interstate 5). The Mendota wastewater treatment facility portion of the Study Area consisted of a spoils pile, with sparse vegetation and no trees.

Natural communities are assemblages of plant species that occur together in the same area and are defined by species composition and relative abundance. The natural community classification presented herein is based on field observations, and the *Manual of California Vegetation Second Edition* (Sawyer et al. 2009). Natural communities generally correlate with wildlife habitat types; wildlife habitats were classified and evaluated using the *A Guide to Wildlife Habitats of California* (Mayer and Laudenslayer, 1988). Dudek conducted vegetation and land cover surveys for the Fresno County portion of the Study Area (excluding the service line) and identified agricultural land, ruderal lands, disturbed lands, and eucalyptus groves, tamarisk (*Tamarix ramosissima*) and scrubland communities (Dudek 2022). ESA conducted vegetation and land cover surveys for the service line and the City of Mendota portion of the Study Area in April 2022 and identified grassland, eucalyptus, agricultural lands and disturbed lands, as described below.

4.1.1 Grassland

Grasslands are an herbaceous natural community dominated by grasses, forbs, and other plants. This natural community is present on the margins in the Study Area in areas that are not disked for agriculture. Non-native grasslands are dominated by non-native, annual species including slender wild oat (*Avena barbata*), rip-gut brome (*Bromus diandrus*) and foxtail brome (*B. madritensis*). The associated herbaceous cover includes non-native yellow star thistle (*Centaurea solstitialis*), black mustard (*Brassica nigra*), and wild geranium (*Geranium dissectum*).

Annual grasslands provide foraging and limited breeding habitat for wildlife. Reptiles such as the western fence lizard (*Sceloporus occidentalis*), common garter snake (*Thamnophis sirtalis*), and gopher snake (*Pituophis melanoleucus*), and birds such as western bluebird (*Sialia mexicana*), western meadowlark (*Sturnella neglecta*), lesser goldfinch (*Spinus psaltria*), and barn swallow (*Hirundo rustica*) may be present. Small mammals may include deer mouse (*Mus musculus*), California vole (*Microtus californicus*), or black-tailed jackrabbit (*Lepus californicus*). Raptors including red-tailed hawk (*Buteo jamaicensis*) and American kestrel (*Falco sparverius*) may forage on the rodents. Non-native grasslands are also important foraging grounds for bat species including myotis (*Myotis* sp.) and pallid bats (*Antrozous pallidus*). A list of wildlife species that were observed during the April 2022 survey is provided in Appendix C.

4.1.2 Eucalyptus

Eucalyptus (*Eucalyptus* sp.) groves are considered semi-natural in California as they are composed of non-native species (Sawyer et al. 2009). Eucalyptus trees are the dominant tree canopy, with sparse understory shrub and herbaceous layers. In the Study Area, two small eucalyptus groves are present with saltbush shrubs, tamarisk trees, and non-native brome grasses also present. On Figure 2a, these areas are indicated by the presence of bird nests within the site boundary. Due to the paucity of trees in the region, these eucalyptus groves are havens for wildlife, with nesting sites for raptors, including Swainson's hawk, red-tailed hawk (*Buteo jamaicensis*), and great horned owl (*Bubo virginianus*), as well as smaller birds, including loggerhead shrike (*Lanius ludovicianus*) and house finch (*Haemorhous mexicanus*). Small mammals and reptiles may also be present in the shrubs or leaf litter.

4.1.3 Agricultural Lands

Agricultural lands cover most of the Fresno County portion of the Study Area and were fallow at the time of the reconnaissance survey. Department of Agriculture data indicated that this portion of the Study Area was under wheat production through 2018 (Dudek 2022). The presently fallowed fields are largely barren of vegetation except for ruderal, non-native grasses in the margins. Similar wildlife species to non-native grasslands may be present foraging or living in agricultural fields, though disking prevents digging of rodent burrows.

4.1.4 Developed/ Disturbed

Description

Developed/disturbed portions of the Study Area include dirt roads by the hydrogen and solar generation site, gravel along the planned service line near the substation, and the spoils pile at the wastewater treatment facility. These are mainly barren grounds subject to continued disturbance and supporting minimal vegetation. Developed/ disturbed land cover generally does not provide suitable habitat for plant or wildlife species, though small mammal burrows and ruderal plant species may be present, and migratory birds such as red-tailed hawk or western kingbird (*Tyrannus verticalis)* may nest in transmission towers.

4.2 Special-Status Species

Several species known to occur at or in the regional vicinity of Study Area are protected pursuant to federal and/or State endangered species laws or have been designated as Species of Special Concern by CDFW. In addition, Section 15380(b) of the CEQA Guidelines defines rare, endangered, or threatened species that are not included in any listing; for example, vascular plants on California Native Plant Society Rare Plant Ranking (CRPR) List 1 or 2 are considered to meet Section 15380(b) requirements. Species recognized under these terms are collectively referred to as "special-status species."

A list of special-status species with potential to occur in the regional vicinity of the Project site was compiled from a nine-quad search of the California Natural Diversity Database (CDFW 2022), a nine-quad search on the California Native Plant Society's (CNPS) Rare Plant Inventory (CNPS 2022), a Project footprint search from the U.S. Fish and Wildlife Service IPaC database (USFWS 2022), and biological literature of the region for the following nine 7.5-minute USGS topographic quadrangles: Levis, Coit Ranch, Mendota Dam, Firebaugh, Tranquillity, Cantua Creek, Monocline Ridge, Lillis Ranch, and Chaney Ranch (Appendix A).

From the above list, species were assessed for potential to occur in the Study Area based on habitat requirements and distribution relative to natural communities in the vicinity. Records of special-status species occurrences within 5 miles of the Study Area were mapped by Dudek (Dudek 2022, Figure 5). Two plant species (Munz's tidytips (*Layia munzii*) and San Joaquin woollythreads (*Monolopia congdonii)* have been recorded in the Study Area, but the records are from the 1930s and 1940s (CDFW 2022) and the site has been heavily disturbed in intervening years, removing the habitat for these plants. While numerous special-status wildlife species have been recorded within 5 miles, these occurrences are in the Fresno Slough area, a CDFW preserve, or to the southwest in the Coast Range. Those species with potential to occur in the Study Area are described below.

4.2.1 Special-Status Plants

The reconnaissance-level field surveys did not identify any federal or State-listed or CRPR-ranked plant species, and no special-status plants are considered likely to occur in the Fresno County portion of the Study Area due to agricultural disturbance throughout the area. No rare plants were found during 2018 surveys in the Study Area (Dudek 2022). The wastewater treatment facility consists mainly of barren spoils (see site photos in **Appendix B**) and does not have potential to host special-status plants. A list of observed plant species from the April 2022 reconnaissance survey is presented in **Appendix C**.

4.2.2 Sensitive Natural Communities

Sensitive natural communities are communities that are of limited distribution statewide or within a county or region and are often vulnerable to environmental effects of projects, such as wetlands or riparian areas. These communities may or may not contain special-status plants or their habitat. The April 2022 reconnaissance survey did not identify any sensitive natural communities in the

Study Area. In addition, Dudek (2022) did not identify sensitive natural communities in 2019 within the Fresno County portion of the Project site.

4.2.3 Special-Status Wildlife Species

The April 2022 reconnaissance survey identified the following federal or State-listed or special-status wildlife species as having potential to occur in the Study Area. A complete species list of wildlife species recorded in the Study Area is provided in **Appendix A**. Site photographs, including bird nests, are included in **Appendix B**. Bird nest locations are also shown on Figure 2a. A red-tailed hawk nest was observed in a transmission tower on the service line, and a great horned owl nest was present in a tamarisk tree on the solar facility site. Nest locations for Swainson's hawk and loggerhead shrike are described below. Species observed during the reconnaissance survey are listed in **Appendix C**.

Swainson's Hawk (*Buteo swainsoni*)

Swainson's hawk is a State-listed threatened species. They are large migratory hawks that nest in North America and winter in Central and South America. Swainson's hawks begin arriving in California in late February and depart for their wintering grounds in early September (Woodbridge 1998). Nests are typically constructed in sturdy trees within or near agricultural lands, riparian corridors, and roadside trees. Nests are composed of a platform of sticks, bark, and fresh leaves. Swainson's hawks reside in the Central Valley from March through October, with eggs typically laid in April and early May (peaking in late April). Suitable foraging and nesting habitat for this species occurs in the Study Area.

Dudek observed two unsuccessful Swainson's hawk nests in 2018 during focused surveys (Dudek 2022). Heritage also observed one apparently unsuccessful Swainson's hawk nest attempt during protocol surveys in 2021 (Heritage 2021). During the April 2022 reconnaissance survey, ESA biologists observed a pair of Swainson's hawks constructing a nest in a willow (*Salix* sp.) approximately 1,200 feet south of the planned service line near the Tranquillity service yard (nest 2, Figure 2a), and a second Swainson's hawk nest in a tamarisk tree east of SR 33 and between Adams Avenue and South Avenue (nest 5, Figure 2a). ESA biologists also observed an inactive Swainson's hawk nest in a willow immediately northeast of the intersection of American Avenue and Ohio Avenue (nest 9, Figure 2a).

San Joaquin kit fox (*Vulpes macrotis mutica*)

San Joaquin kit fox is federally listed as endangered and State-listed as threatened. San Joaquin kit fox was federally listed as endangered in 1967 (32 Fed. Reg. 4001). They are a permanent resident of arid grasslands and open scrubland, where friable soils are present. Dens are required year-round for reproduction, shelter, temperature regulation, and protection from predators (USFWS 1998). Historically their habitat included native alkali marsh and saltbush scrub of the valley floor, but the availability of such habitats has diminished markedly due to agricultural conversion. Grasslands with friable soils are considered the principal habitat for denning, foraging, and dispersal. Kit fox's historical range has greatly diminished, primarily due to habitat

loss; their current range centers on the southern and western parts of the San Joaquin Valley (USFWS 1998). Dudek conducted focused surveys for this species in 2018; while suitable burrows were present on the fringe of agricultural fields in the Fresno County portion of the Project site and at the Mendota wastewater treatment facility, no sign of kit fox presence was found. The species would likely only occur in the Study Area in transit to areas of higher habitat value in the region (Dudek 2022). There are no CNDDB records within five miles of the Study Area (CDFW 2022).

Tricolored blackbird (*Agelaius tricolor*)

Tricolored blackbird has no federal status and is State-listed as threatened. Tricolored blackbird is a colonial species that nests in dense vegetation in and around freshwater wetlands. When nesting, tricolored blackbirds generally require freshwater wetland areas large enough to support colonies of 50 pairs or more. They prefer freshwater emergent wetlands with tall, dense cattails or tules for nesting, but will also breed in thickets of willow, blackberry, wild rose, or tall herbs; and occasionally within agricultural fields. Outside of breeding season, flocks are highly mobile and forage in grasslands, croplands, and wetlands (Zeiner et al. 1990). There is no suitable nesting habitat in the Study Area but the disturbed agricultural fields of the Project site could provide foraging habitat. The nearest record of the species is 3.1 miles northeast of the Fresno County portion of the Project site, near Fresno Slough (CDFW 2022).

Western burrowing owl (*Athene cunicularia*)

Western burrowing owl is a California Species of Special Concern. They are residents of open, dry grassland and desert. They occupy burrows for both breeding and roosting. They use burrows excavated by ground squirrels and other small mammals and will use human-made burrows and cavities. Where the number and availability of natural burrows is limited, owls may occupy human-made burrows such as drainage culverts, cavities under piles of rubble, discarded pipe, and other tunnel-like structures (Zeiner et al. 1988–1990).

Dudek conducted focused surveys for burrowing owl at the Fresno County portion of the Project site in 2018 and found no sign of owls, though suitable burrows at least 3 inches in diameter were observed and were also noted in April 2022 during the reconnaissance survey (see Figure 2a). The nearest record of the species is approximately 2.6 miles northeast of the site (CDFW 2022). At the wastewater treatment facility, surveys for a nearby project observed numerous suitable burrows, which were also seen during the reconnaissance survey (see Figure 2b), and one juvenile burrowing owl at a burrow. The occupied burrow was located approximately 4000 ft. southeast of the wastewater treatment facility in December 2019, outside of breeding season (Wood 2020).

Loggerhead shrike (*Lanius ludovicianus*)

Loggerhead shrike is a California Species of Special Concern. It is widespread in North America and is a yearlong resident of California at lower elevations, primarily in the Central Valley and Coast Range. Shrikes prefer open habitats with scattered shrubs, trees, posts or fences to provide hunting perches, and nearby spiky vegetation or barbs to use for impaling prey. ESA biologists found an active nest in tamarisk tree just east of SR 33 and between Adams Avenue and South

Avenue (nest 4, Figure 2a), and a second potentially active nest in a willow immediately northeast of the intersection of American Avenue and Ohio Avenue (nest 7, Figure 2a).

American Badger

American badger (*Taxidea taxus)* is a California Species of Special Concern. The badger is an uncommon permanent resident found throughout most of the state. It is active throughout the year, except in the North Coast. This species may be nocturnal or diurnal, and frequents drier open stages of most shrub, forest, and herbaceous habitats, and open, uncultivated ground. Badgers dig burrows in friable soil for cover and prey on burrowing rodents. They frequently reuse old burrows, although some may dig a new den each night, especially in summer. Home range estimates are often hundreds of acres but vary geographically and seasonally (Zeiner 1990). Dudek conducted focused surveys for this species in 2018; no suitable burrows or sign of badger presence was found. If present, this species would likely only occur in the Study Area in transit to areas of higher habitat value in the region (Dudek 2022). There are no CNDDB records within five miles of the Study Area (CDFW 2022).

Bat Species

Several bats that have the potential to occur in the Study Area are California Species of Special Concern. Night roosts for bats are generally associated with rock crevices, unoccupied buildings, hollows in large trees, and bridges. Western red bat (*Lasiurus blossevillii*) is a California Species of Special Concern. This species is associated strongly with riparian areas, particularly mature stands of cottonwood and sycamore, and may also be found in orchards. Western red bats roost individually in dense clumps of tree foliage in riparian areas, orchards, and suburban areas. This species ranges through the Central Valley, southern Coast Range, Salinas Valley and San Francisco Bay area (Pierson et al. 2006). Greater western mastiff bat (*Eumops perotis californicus*) is a California Species of Special Concern. They occur in many open, semi-arid to arid habitats including conifer and deciduous woodlands, coastal scrub, annual and perennial grasslands, palm oases, chaparral, desert scrub and urban (WBWG 2017). Bat roosting habitat is limited on the Project site; however, mature tamarisk and eucalyptus trees in the Fresno County portion of the Study Area may provide night roosts for tree-roosting bat species.

4.3 Wildlife Movement Corridors

Wildlife movement corridors link together areas of suitable wildlife habitat that are otherwise separated by rugged terrain, changes in vegetation, or by areas of human disturbance or urban development. Topography and other natural factors in combination with urbanization can fragment or separate large open-space areas. The fragmentation of natural habitat can create isolated “islands” of vegetation and habitat that may not provide sufficient area to accommodate sustainable populations and can adversely impact genetic and species diversity. The retention of wildlife movement corridors ameliorates the effects of such fragmentation by allowing animals to move between remaining habitats, which in turn allows depleted populations to be replenished. Such movement may also promote genetic exchange between separated populations.

The Fresno County portion of the Study Area is a large expanse of fallowed agricultural fields and disturbed lands surrounded by active roadways. There is no surface water present and limited cover for wildlife; thus, the site has limited capacity for wildlife movement. The City of Mendota portion of the Study Area is a wastewater treatment spoils pile, which primarily consists of barren ground and provides little cover or forage for wildlife movement.

4.4 Critical Habitat for Listed Plant and Wildlife Species

The USFWS defines the term critical habitat in the federal Endangered Species Act as a specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection. The Study Area is not within designated or proposed critical habitat for any species.

CHAPTER 5
References and Report Preparation

5.1 References

California Department of Fish and Wildlife (CDFW). 2022. California Natural Diversity Database (CNDDB) search for the U.S. Geological Survey 7.5-minute quadrangles Levis, Coit Ranch, Mendota Dam, Firebaugh, Tranquillity, Cantua Creek. Monocline Ridge, Lillis Ranch, and Chaney Ranch.

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5.2 Document Preparation

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Appendix A
Special-Status Species Recorded Near the Study Area

TABLE A-1
SPECIAL-STATUS SPECIES POTENTIAL TO OCCUR WITHIN THE STUDY AREA

Species	Status Fed/State/CNPS*	Habitat	Potential to Occur
Plants			
Atriplex cordulata var. *cordulata* heartscale	--/--/1B.2	Chenopod scrub, meadows and seeps, valley and foothill grassland (sandy); saline or alkaline. Annual herb. Blooms Apr–Oct. Elevation 0–1837 m.	**Not Present.** Suitable scrub, meadow or alkali playa habitat is absent from the Project site. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Atriplex coronata var. *vallicola* Lost Hills crownscale	--/--/1B.2	Chenopod scrub, valley and foothill grassland, vernal pools; alkaline. Annual herb. Blooms Apr–Aug. Elevation 164–2083 m.	**Not Present.** Suitable scrub, grassland, alkali sink or vernal pool habitat is absent from the Project site. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Atriplex depressa brittlescale	--/--/1B.2	Chenopod scrub, meadows and seeps, playas, valley and foothill grassland, vernal pools; alkaline, clay. Annual herb. Blooms Apr–Oct. Elevation 3–1050 m.	**Not Present.** Suitable scrub, playa, alkaline sink or vernal pool habitat is absent from the Project site. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Atriplex minuscula lesser saltscale	--/--/1B.1	Chenopod scrub, playas, valley and foothill grassland; alkaline, sandy. Annual herb. May–Oct. Elevation 49–656 m.	**Not Present.** Suitable scrub, playa or grassland habitat is absent from the Project site. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Atriplex subtilis *subtle orache*	--/--/1B.2	Valley and foothill grassland; alkaline. Annual herb. Blooms June, Aug, Sep(Oct). Elevation 130–330 m.	**Not Present.** The Project site lacks suitable valley and foothill grassland habitat. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Chloropyron palmatum palmate-bracted bird's-beak	FE/CE/1B.1	Chenopod scrub, valley and foothill grassland; alkaline. Annual herb (hemiparasitic). Blooms May–Oct. Elevation 16–509 m.	**Not Present.** Suitable scrub, alkali playa or grassland habitat is not present on-site. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Deinandra halliana Hall's tarplant	--/--/1B.2	Clay, sometimes alkaline; chenopod scrub; cismontane woodland; valley and foothill grassland. Annual herb. Blooms Apr-May. Elevation 260-950 m.	**Not Present.** Suitable scrub, alkaline clay, or grassland habitat is not present on-site. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Delphinium recurvatum recurved larkspur	--/--/1B.2	Chenopod scrub, meadows and seeps, playa, valley and foothill grassland; alkaline. Perennial herb. Blooms Mar–June. Elevation 10–2592 m.	**Not Present.** Suitable scrub, woodland, alkali playa or grassland habitat is not present on-site. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Lasthenia chrysantha alkali-sink goldfields	--/--/1B.1	Valley grassland, alkali sink, wetland-riparian. Annual herb. Blooms Feb-June.	**Not Present.** Suitable alkali sink, grassland or wetland habitat is not present on-site. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Layia munzii Munz's tidy-tips	--/--/1B.2	Chenopod scrub, valley and foothill grassland (alkaline clay). Annual herb. Blooms Mar–Apr. Elevation 492–2297 m.	**Unlikely.** Suitable scrub, alkali playa or grassland habitat is not present on-site. Historical 1940 occurrence east of the Project site (CDFW 2021); location is imprecise and area is now cultivated.

TABLE A-1 (CONTINUED)
SPECIAL-STATUS SPECIES POTENTIAL TO OCCUR WITHIN THE STUDY AREA

Species	Status Fed/State/CNPS*	Habitat	Potential to Occur
Plants (cont.)			
Lepidium jaredii ssp. *album* Panoche peppergrass	--/--/1B.2	Valley and foothill grassland (steep slopes, clay). Annual herb. Blooms Feb– June. Elevation 607–902 m.	**Not Present.** Suitable grassland habitat is not present on-site and the site is outside of the species' known elevation range. The nearest CNDDB occurrence is approximately 4.8 miles west of the Project site (CDFW 2021).
Madia radiata Showy golden madia	--/--/1B.1	Cismontane woodland, valley and foothill grassland. Annual herb. Blooms March – May. Elevation 80 – 3985 m.	**Not Present.** Suitable grassland or woodland habitat is not present on-site. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Monolopia congdonii San Joaquin woollythreads	FE/--/1B.2	Chenopod scrub, valley and foothill grassland (sandy). Annual herb. Blooms Feb–May. Elevation 197–2625 m.	**Unlikely.** Project site lacks suitable scrub or sandy grassland habitat. An occurrence in the northern part of the site from 1935 is likely extirpated as a result of cultivation (CDFW 2021).
Navarretia panochensis Panoche navarretia	--/--/1B.3	Valley and foothill grassland chenopod scrub (clay), often gravelly. Annual herb. Blooms Apr-Aug. Elevation 330 - 860 m.	**Not Present.** Project site lacks suitable clay, grassland or woodland habitat. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Sagittaria sanfordii Sanford's arrowhead	--/--/1B.2	Marshes and swamps (assorted shallow freshwater). Perennial rhizomatous herb. Blooms May–Oct (Nov). Elevation 0–2133 m.	**Not Present.** Project site lacks marsh and swamp habitat, though species could occur in ditches. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Senecio aphanactis Chaparral ragwort	--/--/2B.2	Chaparral, cismontane woodland, coastal scrub, sometimes alkaline. Annual herb. Blooms Jan – April (May). Elevation 45 – 2625 m.	**Not Present.** Project site lacks marsh and swamp habitat, though species could occur in ditches. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Invertebrates			
Branchinecta longiantenna longhorn fairy shrimp	FE/--	Sandstone outcrop pools, alkaline grassland vernal pools, and pools within alkali sink and alkali scrub communities.	**Not Present.** Species limited to four known sites; Project site lacks vernal pools. Nearest CNDDB occurrence approximately 0.7-mile east of the site (CDFW 2021).
Branchinecta lynchi vernal pool fairy shrimp	FT/--	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats.	**Not Present.** Suitable vernal pool habitat is not present on the Project site. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Reptiles and Amphibians			
Anniella pulchra Northern California legless lizard	--/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils.	**Unlikely.** The Project site lacks shrubs for cover, and sandy/loose soils. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Arizona elegans occidentialis California glossy snake	--/SSC	Scrub, rocky washes, grasslands, chaparral, in open areas with soil loose enough for burrowing.	**Unlikely.** The Project site lacks scrub, washes and sandy/loose soils. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).

TABLE A-1 (CONTINUED)
SPECIAL-STATUS SPECIES POTENTIAL TO OCCUR WITHIN THE STUDY AREA

Species	Status Fed/State/CNPS*	Habitat	Potential to Occur
Reptiles and Amphibians (cont.)			
Emys marmorata *western pond turtle*	--/SSC	Rivers, creeks, small lakes, ponds, marshes, irrigation ditches and reservoirs. Turtles bask on land near water on logs, branches or boulders.	**Not Present.** The Project site lacks suitable aquatic habitat required for this species. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Gambelia sila blunt-nosed leopard lizard	FE/SE, FP	Sparsely vegetated alkali and desert scrubs, including semi-arid grasslands, alkali flats, and washes.	**Unlikely.** The Project site consists of disturbed agricultural areas surrounded by orchards. The closest occurrence is approximately 4 miles southwest of the Project site (CDFW 2021).
Masticophis flagellum ruddocki San Joaquin whipsnake	--/SSC	Open, dry, treeless areas including grassland and saltbush scrub. This species needs mammal burrows for refuge.	**Unlikely.** The Project site is highly disturbed agricultural areas. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Phrynosoma blainvillii coast horned lizard	--/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats.	**Unlikely.** The Project site lacks suitable loose, sandy soils and shrub cover required for this species. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Spea hammondii western spadefoot	--/SSC	Primarily grassland and vernal pools, but also ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agricultural fields.	**Unlikely.** The Project site lacks suitable aquatic habitat for this species. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Thamnophis gigas giant garter snake	FT/ST	Highly aquatic: found in freshwater marsh habitat and low-gradient streams; also uses canals and irrigation ditches.	**Not Present.** The Project site lacks aquatic habitat required by this species. The nearest CNDDB occurrence is approximately 4 miles northeast in the Fresno Slough area (CDFW 2021).
Thamnophis hammondii two-striped gartersnake	--/SSC	Highly aquatic: found in streams, creeks, pools, streams with rocky beds, ponds, lakes, and vernal pools.	**Not Present.** The Project site lacks aquatic habitat required by this species. There are no occurrences within approximately 5 miles of the Project site (CDFW 2021).
Birds			
Agelaius tricolor tricolored blackbird	--/Candidate Endangered	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture.	**Unlikely.** The Project site lacks suitable marsh nesting habitat, but it provides foraging areas within cultivated agricultural lands for nearby nesting or wintering habitat. Known to nest approximately 3 miles northeast of the Project site (CDFW 2021). Additional suitable habitat present in the Mendota Wildlife Area.
Asio flammeus short-eared owl	--/SSC	Grassland, prairies, dunes, meadows, irrigated lands, and saline and freshwater emergent wetlands. Nests on ground in salt or freshwater marshes, irrigated grain or alfalfa fields, ungrazed grasslands, and old pastures.	**Unlikely.** The Project site has marginal ground vegetation and herbaceous cover for nesting in the tree groves, but these areas are small and surrounded by disturbed land. Suitable foraging habitat is present in agricultural fields within the Project site. No occurrences within 5 miles of the Project site (CDFW 2021).

TABLE A-1 (CONTINUED)
SPECIAL-STATUS SPECIES POTENTIAL TO OCCUR WITHIN THE STUDY AREA

Species	Status Fed/State/CNPS*	Habitat	Potential to Occur
Birds (cont.)			
Athene cunicularia burrowing owl	--/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows. This species requires short vegetation with sparse shrubs and burrows for roosting and nesting.	**Moderate Potential.** Suitable ground squirrel burrows observed on the WWTP site, and species has been observed <1 mile away. Few suitable burrows on Heartland site, none of gen-tie line. The nearest CNDDB occurrence is approximately 2.6 miles northeast of the Project site (CDFW 2021).
Buteo swainsoni Swainson's hawk	--/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture.	**Present.** Active nests present onsite in tamarisk trees near SR-33, and willow trees near gen-tie line. Suitable foraging habitat occurs on the Project site. Additional inactive nests were found within a 5-mile radius of the site (Dudek, 2022). Closest CNDDB 4.7 miles northwest (CDFW, 2021).
Charadrius montanus mountain plover	--/SSC	Winters in shortgrass prairies, plowed fields, open sagebrush, and sandy deserts. Does not breed in California.	**Unlikely.** Although this species prefers prairie habitats, grazed grasslands, or burned fields, they may forage on tilled fields in winter. The nearest CNDDB occurrence is approximately 2.8 miles east (CDFW 2021).
Coccyzus americanus occidentalis Western yellow-billed cuckoo	FT/SE	Nests in dense riparian woodlands and forest with well-developed understories.	**Not Present.** Suitable nesting and foraging habitat is absent from the Project site. There are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).
Lanius ludovicianus loggerhead shrike	--/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches.	**Present.** This species was observed perched in tamarisk trees and on fencelines on the Heartland site and the gen-tie line, and two active nests were identified (Figure 2a).
Riparia riparia *Bank swallow*	--/ST	Nests in riparian, lakeside, and coastal areas with vertical banks, bluffs, and cliffs with sandy soils; crosses open country with water during migration.	**Unlikely.** The Project site lacks vertical sandy bank habitat for nesting but the species may forage here. There are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).
Mammals			
Ammospermophilus nelsoni Nelson's antelope squirrel	--/ST	Arid annual grassland or shrubland with rolling hills or sandy washes, with or without shrubs including saltbush *(Atriplex spp.)*. Prefers fine-textured soils.	**Unlikely.** Regular disking of soils at the Project site renders the site unsuitable as habitat. There are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).
Dipodomys ingens giant kangaroo rat	FE/SE	Fine sandy loam soils with sparse forb vegetation and low-density alkali desert scrub.	**Unlikely.** The Project site lacks the required open desert with scattered shrubs or sandy loam soils. There are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).
Dipodomys nitratoides exilis Fresno kangaroo rat	FE/SE	Alkali sink/open grassland habitats; sands and saline sandy soils in chenopod scrub.	**Unlikely.** Regular disking of soils at the Project site renders the site unsuitable as habitat. There are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).

TABLE A-1 (CONTINUED)
SPECIAL-STATUS SPECIES POTENTIAL TO OCCUR WITHIN THE STUDY AREA

Species	Status Fed/State/CNPS*	Habitat	Potential to Occur
Mammals (cont.)			
Eumops perotis californicus western mastiff bat	--/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; Suitable habitat consists of extensive open areas with abundant roost locations provided by crevices in rock outcrops, trees, tunnels, and buildings.	**Unlikely.** No suitable crevices or caves for roosting. The Project site provides suitable foraging habitat over agricultural fields; however there are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).
Lasiurus blossevillii western red bat	--/SSC	Roosts in tree canopy in forests, woodlands, riparian, mesquite bosque, and orchards, including fig, apricot, peach, pear, almond, walnut, and orange.	**Moderate Potential.** Small clumps of trees may be used for roosting, and species may forage in area. There are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).
Onychomys torridus tularensis Tulare grasshopper mouse	--/SSC	Low, open scrub, and semi-scrub habitats in arid semi-desert associations.	**Unlikely.** The Project site lacks scrubland typically associated with this species. There are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).
Taxidea taxus American badger	--/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils to dig burrows. Prefers open, uncultivated ground and preys on burrowing rodents.	**Moderate Potential (transit).** Badgers burrow in open areas, including ranchlands and agricultural fields; however, the Project site is disturbed and surrounded by other agricultural sites. Badgers may pass through occasionally while foraging. There are no CNDDB occurrences within 5 miles of the Project site (CDFW 2021).
Vulpes macrotis mutica San Joaquin kit fox	FE/ST	Grasslands and scrublands, including disturbed areas; oak woodland, alkali sink scrubland, vernal pools, and alkali meadows.	**Moderate Potential (transit).** The Project site provides suitable foraging habitat, and the species may disperse through the Project site during migration between habitat areas. No suitable burrows were observed during biological surveys. The nearest CNDDB record is approximately 5 miles southwest of the Project site (CDFW 2021).

USGS 7.5-minute quads Coil Ranch, Cantua Creek, Levis, Firebaugh, Tranquillity, Mendota Dam, Lillis Ranch, Chaney Ranch, Monocline Ridge.

***STATUS LEGEND:**
FE = Federally Endangered.
FT = Federally Threatened.
FP = CDFW Fully Protected Species.
FDL=Federally Delisted.
SE = State Endangered.
ST = State Threatened.
SSC = California Species of Concern.
SDL=State Delisted.
BCC=Bird of Conservation Concern

CRPR:
1B: Plants rare, threatened, or endangered in California and elsewhere
2B: Plants rare, threatened, or endangered in California, but more common elsewhere

THREAT RANK:
1 – Seriously threatened in California
2 – Fairly threatened in California
3 - Fairly threatened in California and elsewhere

Appendix B
Study Area Photographs

SOURCE: ESA

Figure B-1
Proposed service line route south (Top) and end line route (Bottom)

SOURCE: ESA

Figure B-2
Southwest corner (Top) and southwest parcel (Bottom)

SOURCE: ESA

Figure B-3
South center parcel (Top) and center west parcel debris area (Bottom)

SOURCE: ESA

Figure B-4
Center parcel eucalyptus-tamarisk facing south (Top)
and tumbleweed ditch running north (Bottom)

SOURCE: ESA

Figure B-5
WWTP top north (Top) and WWTP top south (Bottom)

SOURCE: ESA

Figure B-6
Swainson's hawk nests by proposed service line (Top)
and by Highway 33 (Bottom)

SOURCE: ESA

Figure B-7
Inactive Swainson's hawk nest by American Avenue (Top)
and loggerhead shrike nest by Highway 33 (Bottom)

SOURCE: ESA

Figure B-8
Loggerhead shrike nest near American Avenue (Top)
and red-tailed hawk nest by service line (Bottom)

SOURCE: ESA

Figure B-9
WWTP burrow north (Top)
and WWTP burrow south (Bottom)

Appendix C
Plant and Wildlife Species Observed in the Study Area

TABLE C-1
PLANT SPECIES OBSERVED IN THE STUDY AREA

Scientific Name	Common Name
Bromus rubens	Red brome
Melilotus indicus	Sweet clover
Kali tragus ssp. tragus	Tumbleweed
Isocoma acradenia	Jimmyweed
Rhaponticum repens	Russian knapweed
Atriplex prostrata	Triangle orache
Atriplex lentiformis	Saltbush
Chenopodium album	Goosefoot
Encelia farinosa	Brittlebush
Sisymbrium irio	London rocket
Sinapis arvensis	Wild mustard
Sonchus oleraceus	Sow thistle
Hordeum murinum	Barley
Salix sp.	Willow
Tamarix ramosissima	Tamarisk
Olea europaea	Olive tree
Schinus terebinthifolia	Peppertree

TABLE C-2
WILDLIFE SPECIES OBSERVED IN THE STUDY AREA

Common name	Scientific name
Reptiles	
western fence lizard	*Sceloporus occidentalis*
Birds	
Northern shoveler	*Spatula clypeata*
Mallard	*Anas platyrhynchos*
Ruddy duck	*Oxyura jamaicensis*
Eurasian collared-dove	*Streptopelia decaocto*
Mourning dove	*Zenaida macroura*
American coot	*Fulica americana*
American avocet	*Recurvirostra americana*
Unidentified dowitcher	*Limnodromus sp.*
Snowy egret	*Egretta thula*
White-faced ibis	*Plegadis chihi*
Northern harrier	*Circus hudsonius*
Swainson's hawk	*Buteo swainsoni*
Red-tailed hawk	*Buteo jamaicensis*
Ferruginous hawk	*Buteo regalis*
American kestrel	*Falco sparverius*
Great horned owl	*Bubo virginianus*
Western kingbird	*Tyrannus verticalis*
Loggerhead shrike	*Lanius ludovicianus*
American crow	*Corvus brachyrhynchos*
Common raven	*Corvus corax*
Barn swallow	*Hirundo rustica*
Cliff swallow	*Petrochelidon pyrrhonota*
Northern mockingbird	*Mimus polyglottos*
Western meadowlark	*Sturnella neglecta*
Red-winged blackbird	*Agelaius phoeniceus*
Brewer's blackbird	*Euphagus cyanocephalus*
Mammals	
California ground squirrel	*Otospermophilus beecheyi*

E2 Swainson's Hawk Survey Report

Swainson's Hawk Survey Report 2021

Heartland Hydrogen Project

Prepared for:

Irish Hills Environmental, Inc.

Prepared by:

Heritage Environmental Consultants, LLC

August 2021

Project Description

The Heartland Hydrogen Project ("Project") would consist of the construction, operation and eventual decommissioning of a solar photovoltaic (PV) power generating facility ("Heartland Solar Facility" or "Solar Facility") and an accessory use electrolytic hydrogen production facility ("Heartland Hydrogen Facility" or "Hydrogen Facility") proposed by Heartland Solar 1, LLC, applicant for the Solar Facility and Plug Project Holding Co., LLC, applicant for the Hydrogen Facility (jointly the "Applicants"). The Solar Facility will occupy approximately 2288 acres and will include a high-voltage electrical service line to interconnect the Solar Facility with Pacific Gas and Electric's ("PG&E") Tranquility Switching Station, located approximately 1.25 miles south of the Project. The Hydrogen Facility will occupy approximately 30 acres. The combined Solar Facility and Hydrogen Facility would be capable of producing approximately 30,000 kg/day of renewable hydrogen for zero-emission transportation fuel. This fuel will be used by zero-emission on-road and off-road fuel-cell electric vehicles operating throughout California. The Project would be located in western Fresno County on poor-quality agricultural lands presently owned by the Westlands Water District ("Westlands" or "WWD").

The Project site is zoned AE-20 (Exclusive Agricultural District, 20-acre minimum parcel size). Surrounding land uses include agriculture, scattered single family residences and other vacant land owned by WWD. The Project would be adjacent to the existing Adams East Solar Project and approximately 1.5 miles north of the existing Tranquility Solar Project. Three other utility-scale solar energy projects are proposed for lands nearby or bordering the Project.

The Project site is under purchase options between the Applicants and the present owner, Westlands Water District, which acquired the properties through legal settlements related to agricultural irrigation and drainage. As a consequence of those acquisitions, irrigation has been prohibited on the lands, which have been intermittently dry-farmed or lain fallow in recent years. The combination of relatively low quality soil, lack of irrigation and drainage facilities, and poor habitat value have led the site to be identified by the Center for Law, Energy & the Environment as "Least Conflict" and "Priority Least-Conflict" areas for solar PV development[1]. The Project is being proposed with a number of design elements, such as wildlife-friendly fencing, to further reduce the potential for adverse impacts on wildlife resources.

The Hydrogen Facility will use recycled waste water, delivered by truck from the nearby City of Mendota, as the source water for the electrolysis process and potentially other uses, such as closed-cycle cooling. As part of the Project, upgrades will be made to the Mendota Wastewater Treatment Plant (MWTP) enabling it to perform tertiary water treatment and produce water that can be used at the Hydrogen Facility and other allowable recycled water uses. The upgraded WWTP will be constructed adjacent to the existing WWTP headworks, approximately 1.25 miles northeast of the city center.

The hydrogen will be produced by an electrolysis process where electricity is used to split water into its constituent elements hydrogen and oxygen. The hydrogen is dried to remove residual water vapor

[1] Center for Law, Energy & the Environment, *A Path Forward: Identifying Least-Conflict Solar PV Development in California's San Joaquin Valley* (May 2016), available at https://www.law.berkeley.edu/wp-content/uploads/2016/05/A-PATH-FORWARD-May-2016.pdf

and then cooled and compressed to transform it into a liquid. The liquid hydrogen is piped to short term storage tanks prior to being loaded into mobile tanker-trailers for distribution to customers. The Hydrogen Facility will operate 24 hours per day.

The Solar Facility will consist of arrays of solar PV modules to convert sunlight into direct current (DC) electrical power. Electrical power from groups of modules is combined at an inverter where the power is converted to alternating current (AC) power and transformed to higher voltage for economical transmission to the Solar Facility substation. The power collected at the substation is further stepped up to high voltage (230 kV) for transmission and interconnection at PG&E's Tranquility Switching Station. An additional 230 kV line will electrically interconnect the Solar Facility substation with the Hydrogen Facility substation. The Solar Facility will also include an Operations and Maintenance (O&M) area for staff parking, equipment storage, and Facility operation control.

The Solar Facility will be large enough to generate all the electricity needed by the Hydrogen Facility. However, since the Hydrogen Facility will operate continuously, including nighttime hours when no solar energy is generated, it will interconnect with PG&E as part of PG&E's Net Energy Metering program. This allows the Project to send excess solar energy to the electric grid during the day and draw energy from the grid at night, or other times of low solar generation, to power the Hydrogen Facility. This net metering arrangement requires that the Hydrogen and Solar Facilities both be located within the joint Project boundary.

Swainson's Hawk Regulatory Background

The Swainson's Hawk (*Buteo swainsoni*) is listed as a California state threatened species under the California Endangered Species Act (CESA) and managed by the California Department of Fish and Wildlife (CDFW). The species is not listed as threatened or endangered under the federal Endangered Species Act. To comply with state wildlife protection requirements and receive project approvals, renewable energy projects may be required to conduct surveys and avoid or minimize impacts to Swainson's Hawks and related nesting and foraging habitat. CESA regulates the taking of state-listed species. "Take" is defined as to "hunt, pursue, catch, capture, or kill, or to attempt to hunt, pursue, catch, capture, or kill." (Fish and Game Code §86).

Renewable energy project development could cause direct, indirect, individual, and cumulative adverse impacts to Swainson's Hawks when facility construction and operation areas (such as wind turbines, power plants, solar panels and tower sites, access roads, staging areas, and pulling/splicing locations) occur in areas where hawks are present. Potential impacts include loss of foraging habitat and disruption of breeding activities due to increased dust, noise, and human presence. Direct mortality from vehicle strikes is also known to occur. Construction disturbance during the breeding season and habitat loss could cause incidental loss of fertile eggs or nestlings, or otherwise lead to nest abandonment (CDFG 2010).

Swainson's Hawk Survey Methods

The survey was conducted using survey methods recommended by the Swainson's Hawk Technical Advisory Committee (May 31, 2000). To meet the minimum level of protection for the species, surveys should be completed for at least the two survey periods immediately prior to a projects initiation. The survey protocol includes five survey/monitoring periods as follows:

1. Period I - January-March – one survey (optional)
2. Period II - March 20-April 5 – three surveys
3. Period III - April 5-April 20 – three surveys
4. Period IV - April 21-June 10 – monitoring known nest sites
5. Period V - June 10-July 30 – monitoring fledglings

To reduce disturbance to Swainson's Hawk (SWHA) in the area, a vehicle was used as a blind while conducting the survey. The survey was conducted by driving existing roads and two-tracks throughout the project area. The survey effort concentrated on suitable nesting and roosting habitat such as trees and utility poles. All nest locations were marked with a GPS and representative photos were taken. The survey included all raptor species including Burrowing Owl. The survey included the project area plus a 0.5 mile buffer as recommended by the survey protocol. As recommended by the survey methodology, survey timing was planned to best capture migration, courtship, and nesting periods. Because surveys began late, none were conducted during Periods I or II. However, because SWHA activity increases around nest sites during Period III, they are typically detected very easily. In addition, the protocol recommends that surveys be conducted during a minimum of two of the five survey periods. Surveys were conducted during the following three periods:

1. Period III – three surveys from April 15-19, 2021
2. Period IV - June 1-2, 2021 – monitoring known nests
3. Period V - June 28-29, 2021 – monitoring fledglings

Survey Results

Habitat Assessment

The Mendota WWTP portion of the project (**Figure 1**) is located adjacent to the town of Mendota in an industrial area next to water treatment and other water management facilities (Representative Photo Point 533). Access to this area is extremely limited due to security fencing, irrigation ditches, and gated roadways and could only be observed from a distance. Riparian habitat exists along the San Joaquin River and along waterways associated with water management facilities. Tree species include; cottonwood, pine, eucalyptus, palm, and tamarisk. Limited wetland habitats occur along these riparian corridors and include bulrushes, sedges, and other aquatic plant species. The Mendota Pool Park, a picnic and fishing area, is also located near the river and north of the proposed project facilities. All lands immediately adjacent to the river are agricultural lands dominated by row crops and orchards (nut and fruit trees). The proposed Mendota WWTP site provides little to no suitable habitat for wildlife species due to heavy human-related impacts (Representative Photo Point 534). There was no evidence of burrowing mammals such as California ground squirrel or kit fox observed in the area. Suitable nesting habitat for various raptors and other avian species does exist in the area, mainly in the riparian corridor found along the San Joaquin River, though the nearest such habitat is 0.5 miles from the site of the WWTP. No raptor nests were observed within 0.5 miles of the proposed site.

The solar site portion of the project (**Figure 2**) is located approximately five miles south of the town of Mendota. The proposed project area and surrounding lands are dominated by agricultural fields which include row crops and orchards (nut and fruit trees). These lands provide suitable foraging habitat for raptors, but low quality habitat for other wildlife species due to the frequency of ground disturbing activities and other human disturbance. All of the agriculture lands within the project area showed signs of recent farming activities just as freshly turned soil or appeared to be recently

fallowed. County roads and two tracks bisect the project area, and irrigation ditches are present. Groves of trees are sparse and generally located along the roadways and irrigation ditches. Tree species include eucalyptus, tamarisk, cottonwood, and pine. The survey effort concentrated on these groves which provide suitable nesting habitat for raptors and other avian species in the area.

Suitable burrow habitat for Burrowing Owl (BUOW) is limited to a few irrigation ditches and mounded soil found on the site. Burrowing mammals such as California ground squirrel were observed during the survey. In the Central Valley, California ground squirrel often provide nesting habitat for BUOW (CDFG 2012). These areas were investigated thoroughly, and no Burrowing Owl or active sign such as white wash, pellets, prey remains, and feathers were observed.

Raptor Species Observed and Nesting Activity

Five common raptor species were observed during the surveys: Swainson's Hawk (*Buteo swainsoni*), Red-tailed Hawk (*Buteo jamaicensis*), Cooper's Hawk (*Accipiter cooperii*), American Kestrel (*Falco sparverius*), and Great Horned Owl (*Bubo virginianus*). Activities included soaring, perching, hunting, mating behavior and nest tending. Four active raptor nests were observed during the first survey conducted in April 2021 and were revisited during the follow-up visits to check status and activity. **Figure 2** shows nest locations observed during the survey effort. Representative photographs of the nests and associated habitat were taken of the project area and can be found at the end of this report. Nest status with corresponding waypoints (WP) are as follows:

- WP530 – Swainson's Hawk
    1. April 15-19, 2021: 2 adults tending nest
    2. June 1-2, 2021: 2 adults tending nest. 1 adult sitting on nest
    3. June 28-29, 2021: No activity. Nest appears abandoned
- WP528 – Red-tailed Hawk
    1. April 15-19, 2021: 2 adults tending nest
    2. June 1-2, 2021: 2 adults tending nest. 1 chick in nest
    3. June 28-29, 2021: 1 adult tending nest. 1 chick in nest
- WP527 – Great Horned Owl
    1. April 15-19, 2021: 2 adults tending nest. 1 chick in nest
    2. June 1-2, 2021: Nest Inactive. Assume chick has fledged
    3. June 28-29, 2021: Nest Inactive
- WP529 – Red-tailed Hawk
    1. April 15-19, 2021: 2 adults tending nest
    2. June 1-2, 2021: Nest Inactive
    3. June 28-29, 2021: Nest Inactive. Assumed abandoned

Recommendations

At this time, the survey requirements for Swainson's Hawk have been met for the year 2021. If the project continues into 2022, additional surveys may be required, as each calendar year is treated as a new biological survey period. No Burrowing Owl were observed during the surveys and suitable habitat is limited for the species within the proposed project area. Pre-construction protocol level surveys for Burrowing Owl should be conducted.

References:

California Department of Fish and Game. June 2, 2010. Swainson's Hawk Survey Protocols, Impact Avoidance, and Minimization Measures for Renewable Energy Projects in the Antelope Valley of Los Angeles and Kern Counties, California. State of California. California Energy Commission and Department of Fish and Game.

California Department of Fish and Game. March 7, 2012. Staff Report on Burrowing Owl Mitigation. State of California Natural Resources Agency.

Swainson's Hawk Technical Advisory Committee. May 31, 2000. Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley.

HEARTLAND HYDROGEN PROJECT

Figure 1
Survey Results

Fresno County, CA

MADERA COUNTY

FRESNO COUNTY

533 - Photos 3762 & 3763

534 - Photo 3764

Mendota WWTP

Mendota

33

33

180

LEGEND

Project Components

- Pipeline
- Mendota WWTP Site

June 2021 Survey Results

- Photo Location

Vegetation Covertypes

- Agriculture
- Hardwood Forest / Woodland
- Shrub
- Urban / Developed
- Barren
- Water

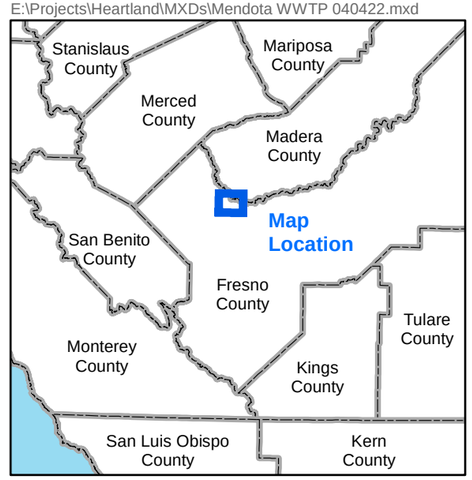
General Features

- State Highway
- County Boundary
- Municipal Boundary

0 0.25 0.5 0.75 1

Miles

SPCS NAD 83, CA Zone III, US Ft.
Data Sources: CalTrans, ESRI, Fresno County, USDA.
E:\Projects\Heartland\MXDs\Mendota WWTP 040422.mxd



HEARTLAND HYDROGEN PROJECT

Figure 2
Survey Results

Fresno County, CA

529 (RTHA) Nest
33
530 (SWHA) Nest
535 - Photo 3765
528 (RTHA) Nest
527 (GHOW) Nest
Heartland Hydrogen Project
FRESNO COUNTY
Proposed Hydrogen Facility
Proposed Solar Facility O&M Area
Proposed Solar Facility Substation - Alternative
532 - Photo 3760
Proposed Solar Facility Substation

LEGEND

Project Components

- Gen-Tie / Elecric Service Line Route
- Heartland Hydrogen Project
- Solar Facility Substation
- Hydrogen Facility
- Solar Facility O&M Area
- Solar Facility Substation - Alternative

June 2021 Survey Results

- Nest
- Photo Location

Vegetation Covertypes

- Agriculture
- Hardwood Forest / Woodland
- Shrub
- Urban / Developed
- Barren

General Features

- Switching Station
- Existing 230kV Transmission Line
- State Highway
- County Boundary

0 0.25 0.5 0.75 1
Miles

SPCS NAD 83, CA Zone III, US Ft.
Data Sources: CalTrans, ESRI, Fresno County, USDA.
E:\Projects\Heartland\MXDs\Fig 2 Heartland Hydrogen 032522

Representative Photos

WP530 – Swainson's Hawk Nest

WP527 – Active Great Horned Owl Nest

WP535 – Representative Fallow Field in Project Area

WP532 – Representative Plowed Field in Project Area

WP530 – Swainson's Hawk Associated with the Active Nest

WP527 – Great Horned Owl Nest

WP534 – Looking East towards proposed facility near Mendota

WP533 – Waterworks Facilities near the Town of Mendota

WP528 – Red-tailed Hawk Chick June 28, 2021

E3 Biological Resources Report

DRAFT

Biological Resources Report

Heartland Hydrogen Project

APRIL 2022

Prepared for:

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1 Introduction

Dudek has prepared this Biological Resources Report in support of the proposed Heartland Hydrogen Project (Project), a solar photovoltaic (PV) power generating facility ("Heartland Solar Facility" or "Solar Facility") and an accessory-use electrolytic hydrogen production facility ("Heartland Hydrogen Facility" or "Hydrogen Facility") located in Fresno County, California. This report describes the methodology for, and results of, various field surveys conducted to date, describes site conditions and provides an assessment of sensitive biological resources, including special-status species, with potential to occur on and in the vicinity of the Project site. This report is intended to support Project planning and siting/design efforts, as well as future environmental review under the California Environmental Quality Act and regulatory review/permitting by the U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), U.S. Army Corps of Engineers (USACE), and Regional Water Quality Control Board (RWQCB), as appropriate.

Since the time of these surveys, the design of the Project has evolved, resulting in minor changes to the areas potentially impacted by the Project. This report reflects the findings of surveys as performed under a prior Project design. However, the findings are presented in the context of the most recent Project design.

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2 Project Location

2.1 Project Description

The Heartland Hydrogen Project ("Project") would consist of the construction, operation and eventual decommissioning of a solar photovoltaic (PV) power generating facility ("Heartland Solar Facility" or "Solar Facility") and an accessory use electrolytic hydrogen production facility ("Heartland Hydrogen Facility" or "Hydrogen Facility") proposed by Heartland Solar 1, LLC, applicant for the Solar Facility and Plug Project Holding Co., LLC, applicant for the Hydrogen Facility (jointly the "Applicants"). The Solar Facility will occupy approximately 2288 acres and will include a high-voltage electrical service line to interconnect the Solar Facility with Pacific Gas and Electric's ("PG&E") Tranquility Switching Station, located approximately 1.25 miles south of the Project. The Hydrogen Facility will occupy approximately 30 acres. The combined Solar Facility and Hydrogen Facility would be capable of producing approximately 30,000 kg/day of renewable hydrogen for zero-emission transportation fuel. This fuel will be used by zero-emission on-road and off-road fuel-cell electric vehicles operating throughout California. The Project would be located in western Fresno County on poor-quality agricultural lands presently owned by the Westlands Water District ("Westlands" or "WWD").

The Project site is zoned AE-20 (Exclusive Agricultural District, 20-acre minimum parcel size). Surrounding land uses include agriculture, scattered single family residences and other vacant land owned by WWD. The Project would be adjacent to the existing Adams East Solar Project and approximately 1.5 miles north of the existing Tranquility Solar Project. Three other utility-scale solar energy projects are proposed for lands nearby or bordering the Project.

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alternating current (AC) power and transformed to higher voltage for economical transmission to the Solar Facility substation. The power collected at the substation is further stepped up to high voltage (230 kV) for transmission and interconnection at PG&E's Tranquility Switching Station. An additional 230 kV line will electrically interconnect the Solar Facility substation with the Hydrogen Facility substation. The Solar Facility will also include an Operations and Maintenance (O&M) area for staff parking, equipment storage, and Facility operation control.

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2.2 Project Location

The Project site is located in the San Joaquin Valley, approximately 6.5 miles south of the City of Mendota, and immediately west of State Route 33 (SR-33), in unincorporated Fresno County. Specifically, the Project site is bounded by West American Avenue to the north and SR-33 to the east. The Project borders Los Angeles Avenue on the west and is one-half mile north of Manning Avenue to the south. The project site is located within Sections 1, 2, 12, 13, 23, and 24 of Township 15 South, Range 14 East of the Coit Ranch USGS 7.5 minute quadrangle (Figure 1).

3 Biological Setting

3.1 Climate

The climate of the Project area is typical of inland valleys in California, with hot dry summers and cool, mild winters. Daytime temperatures in the summer often exceed 100 degrees Fahrenheit (°F), with lows in the 60s °F. In winter, daytime high temperatures are usually in the 50s °F, with lows around 35 °F. Radiation (Tule) fog is common in the winter, and may persist for extended periods.

3.2 Soils

A review of Natural Resources Conservation Service (NRCS) data resulted in the identification of six soil types mapped on the Project site: Tranquility clay loam, saline-sodic, wet, 0 to 1% slopes; Ciervo clay, saline-sodic, wet, 0 to 1%slopes; Ciervo, wet-Ciervo complex, saline-sodic 0 to 1% slopes; Posochanet clay loam, saline-sodic, wet, 0 to 1% slopes; Cerini sandy loam, 0 to 2% slopes and Calflax clay loam, saline-sodic, wet, 0 to 1% slopes (USDA 2018b) (Figure 2). Soils descriptions are provided in Appendix A.

3.3 Topography

The Project site consists of flat terrain that slopes gradually from southwest to northeast. Elevations on the Project site range from approximately 185 feet Above Mean Sea Level (AMSL) to approximately 195 feet AMSL.

3.4 Land Uses

The Project site is located near the western edge of the San Joaquin Valley where it transitions to the central California Coast Ranges. Land use in the Project area is primarily agricultural and is periodically dry farmed with winter and spring wheat (USDA NASS 2019) or other grain crops. In years when the land lays fallow, the land is regularly cultivated for weed control. The nearest areas supporting natural habitats include the Mendota Wildlife Area and Fresno Slough 2.3 miles northeast and open rangelands associated with the interior Coast Range approximately 6.7 miles southwest. At the time of the site surveys, the Project site was recently under agricultural production with winter wheat. In addition, a database review of the U.S. Department of Agriculture (USDA) National Agricultural Statistics Service (NASS) CropScape website from 2008 to 2018 showed the Project site was under agricultural production for this entire period (USDA NASS 2019).

3.5 Hydrologic Features

The Project site falls within the Huron hydrologic subarea (HSA) of the Westlands hydrologic area (HA) located within the South Valley Floor hydrologic unit (HU) in the Tulare Lake Basin. Surface flow generated from the Project site is from the southwest to northeast based on existing topography, which is very gently sloping. The site does not support any indicators of concentrated flows; instead, flows are expected to sheet over a relatively wide area and temporarily collect in low-lying areas or roadside ditches. Flows are only expected to exit the site during exceptional rainfall events producing significant rainfall over a short time period. Such flows are anticipated to exit the Project site via culverts under SR-33 and continue east toward Fresno Slough and the Mendota Wildlife Area.

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4 Methods

Dudek conducted a literature review and subsequent focused biological surveys to determine the presence or absence of sensitive biological resources on and immediately adjacent to the Project site. The methods employed for the literature review and methods of field surveys are described below.

4.1 Literature Review

Prior to conducting fieldwork, Dudek reviewed the following literature and database sources to assess the potential for special-status biological resources, including aquatic resources, to occur on the Project site and immediate vicinity:

- California Natural Diversity Database (CNDDB; CDFW 2019);
- U.S. Fish and Wildlife Service Information for Planning and Conservation (IPaC) Trust Resources Report (USFWS 2019a);
- Review of California Native Plant Society (CNPS) *Inventory of Rare and Endangered Plants* (CNPS 2019b);
- Calflora: Information about California Plants for Education, Research and Conservation (Calflora 2019);
- U.S. Geological Survey (USGS) National Hydrography Dataset (NHD; USGS 2019);
- USFWS National Wetlands Inventory (NWI; USFWS 2019b); and
- U.S. Department of Agriculture, Natural Resources Conservation Service Web Soil Survey (USDA-NRCS 2019).

4.2 Field Surveys

Dudek conducted an initial biological resources habitat suitability evaluation to document and characterize existing natural resources on the site and to determine the potential for special-status plant and wildlife species, as well as other sensitive communities, such as wetlands, to occur on the site. Based on the results of this initial assessment, priority survey areas were identified as areas to be targeted for further investigation (Figure 3). The priority survey areas are those that were not under agricultural production at the time of the surveys. These areas, therefore, were considered to have the potential to support burrowing mammals such as burrowing owl (*Athene cunicularia*), San Joaquin kit fox (*Vulpes macrotis mutica*), and/or special-status plants. Trees occurring on site that have the potential to support nesting Swainson's hawks also occurred in these areas. Dudek biologists conducted various focused field surveys for target special-status plant and wildlife species determined as potentially occurring within these priority survey areas; however, the entire project site was evaluated during each survey for potential occurrence of target species. A formal delineation of aquatic resources was also conducted. During all focused surveys, biologists collected information on common plants and wildlife observed on the Project site. The methodologies for each of the field assessments and surveys conducted on the site are discussed in more detail below.

4.2.1 Vegetation Community and Land Cover Mapping

Dudek characterized, documented, and mapped vegetation communities and other land covers on the Project site in July 2018. Vegetation mapping was conducted consistent with *Vegetation Alliances and Associations: California Natural Community List Arranged Alphabetically by Life Form* (California Natural Community List; CDFW 2018b) based on the *Manual of California Vegetation*, Second Edition (Sawyer et al. 2009). These classification systems

focus on a quantified, hierarchical approach that includes both floristic (plant species) and physiognomic (community structure and form) factors as currently observed (as opposed to predicting climax or successional stages). Vegetation communities were classified based on site factors, descriptions, distribution, and characteristic species present. Where the vegetation communities or land covers observed in the field did not match those described in Sawyer et al. (2009), Dudek generated additional site-specific vegetation community or land cover classifications, where necessary.

Dudek conducted vegetation mapping partly by walking the site and partly via windshield surveys, to provide 100 percent coverage. Following completion of the fieldwork, Dudek geographic information system (GIS) analysts digitized the vegetation boundaries as delineated by the field biologists and created GIS coverage for the vegetation communities identified.

During this site visit, Dudek biologists also identified aquatic resources, including wetlands, potentially subject to regulation under the federal Clean Water Act, the California Porter-Cologne Water Quality Control Act and/or California Fish and Game Code. Habitats present on the Project site were also evaluated for their potential to support special-status plant and wildlife species known to occur in the region. Focused surveys that were subsequently conducted for these resources are discussed further below.

4.2.2 Special-Status Species and Other Sensitive Biological Resources

Special-status biological resources are those defined as follows: (1) species that have been given special recognition by local, state, or federal resource agencies and/or recognized environmental organizations due to limited, declining, or threatened population sizes; (2) species and habitat types recognized by local and regional resource agencies as sensitive; (3) habitat areas or vegetation communities that are unique, are of relatively limited distribution, or are of particular value to wildlife; (4) documented wildlife corridors and habitat linkages; and (5) aquatic resources regulated by the USACE, RWQCB, and/or CDFW.

For the purposes of this report, special-status plant species are those plants listed, proposed for listing, or candidates for listing as threatened or endangered by the USFWS under the federal Endangered Species Act (ESA); those listed or proposed for listing as rare, threatened, or endangered by CDFW under the California Endangered Species Act (CESA); and plants that are identified by California Rare Plant Rank (CRPR) 1 or 2 in CNPS's Online Inventory of Rare and Endangered Plants (CNPS 2019b).

Special-status wildlife species are those that are designated as rare, threatened, or endangered (or candidate) by CDFW or the USFWS and are protected under either the state CESA (Fish & Game Code, § 2050 et seq.) or federal ESA (16 U.S.C. § 1531 et seq.), those that meet the CEQA definition of endangered, rare, or threatened (Cal. Code Regs., tit. 14, § 15380(b),(d)), or are considered Fully Protected (FP) under Fish & Game Code, § 3511, 4700, 5050, and 5515. Special-status wildlife species also include those that are of expressed concern to resource/regulatory agencies or local jurisdictions. This includes wildlife on CDFW's *Special Animals List* (CDFW 2018a) that are identified as a Species of Special Concern (SSC) or included on the state Watch List (WL), as well as birds considered Birds of Conservation Concern (BCC) by USFWS.

4.2.2.1 Floristic Surveys for Special-Status Plant Species

Based on the literature/database review and the results of the initial site assessment, Dudek conducted focused protocol-level surveys for special-status plant species known to occur in the region and with potential to occur on the Project site. The surveys were conducted in April and July 2018, and were timed to coincide with the blooming period of the target plant species. Table 1, below, provide a summary of the botanical surveys conducted on the Project site, personnel, and conditions.

Table 1. Summary of Botanical Surveys, Personnel, and Conditions

Date	Time	Survey Type	Personnel	Site Conditions
4/18/2018	0700-1430	BOT	Heather Moine, Russell Sweet, Andrea Dransfield, Brandon Vidrio	45°F to 63°F, 80%-50% cloud cover, 1-4 mph winds
7/17/2018	0700-1330	BOT/VEG	Heather Moine, Russell Sweet	75°F to 103°F, 0% cloud cover, 2-6 mph winds

Notes: BOT – botanical; VEG – vegetation mapping; mph – miles per hour

The floristic botanical surveys were conducted by Dudek botanists in accordance with USFWS, CDFW, and CNPS guidelines (USFWS 2000; CDFW 2018c; CNPS 2001). These surveys involved pedestrian transects spaced approximately 65 to 100 feet (approximately 20 to 30 meters) apart, depending on topography and vegetative cover. During the surveys, any special-status species that was observed was mapped using ESRI ArcGIS Collector.

All plant species encountered during the field surveys were identified to subspecies or variety, if possible. Species that could not be identified in the field were brought into the laboratory for further investigation. Scientific and common names for plant species with a California Rare Plant Rank (formerly CNPS List) follow the CNPS's On-Line Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2019b). For plant species without a California Rare Plant Rank, scientific names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2018) and common names follow the *California Natural Community List* (CDFW 2018b) or the United States Department of Agriculture (USDA) Natural Resources Conservation Service Plants Database (USDA 2018b).

4.2.2.2 San Joaquin Kit Fox Assessment

Focused surveys for burrows or dens that are potentially suitable for the state- and federally protected San Joaquin kit fox (*Vulpes macrotis mutica;* SJKF) were conducted pursuant to guidance provided in the *San Joaquin Kit Fox Survey Protocol for the Northern Range* (Northern Range Protocol; USFWS 1999). Although developed for the SJKF occurring farther north in their range, the Northern Range Protocol is the standard protocol used for surveys throughout the San Joaquin Valley. In addition to burrow surveys, this protocol calls for an early evaluation of a site and its potential to support SJKF to determine whether protocol surveys are necessary. The initial site assessment conducted by Dudek on March 8, 2018 fulfilled the assessment protocols for this species and, based on the results of this assessment, and known occurrences of SJKF in the region, it was determined that this species could potentially occur on the Project site.

Pursuant to the USFWS protocol, surveys for suitable burrows/dens were conducted by qualified biologists in April 2018. Areas under active cultivation, including areas recently disked or disturbed, were considered to be unsuitable and eliminated from the survey area. All suitable habitat areas within the Project site that were surveyed are identified as priority survey areas on Figure 3.

The burrow/den surveys consisted of a single pass of pedestrian transects where biologists searched for potential SJKF dens as well as burrows of other species, such as American badger (*Taxidea taxus*), coyote (*Canis latrans*), and burrowing owl (*Athene cunicularia*), that could be used by SJKF. Pedestrian transects were spaced approximately 65 feet (20 meters) apart. Biologists inspected all areas of the ground surface between transect lines to ensure full visual coverage of the site. When any burrow measuring a minimum of 4 inches in diameter was located, the biologists recorded the location of the burrow, burrow dimensions, sign of recent activity, and any other sign to indicate species involved or that might potentially use the burrow, including American badger, burrowing owl, and coyote. Sign and burrow characteristics noted included scat, tracks, shape of the burrow opening, and the orientation of claw marks (a potential indication of whether a canid or a badger excavated a burrow). The locations of all potentially suitable burrows/dens were marked using ESRI ArcGIS Collector.

According to the Northern Range Protocol for San Joaquin kit fox (USFWS 1999), the standard protocol for SJKF surveys in any part of their range, any potential kit fox burrows that were observed were identified as being either natal dens, active dens, or potential dens. "Natal dens" are dens at which the presence of pups was confirmed either by observation or sign such as scat and tracks. "Active dens" refers to dens presumed to be occupied at the time of examination, or to have been recently occupied, due to sign such as recent digging, tracks, or fresh scat. "Potential dens" include those that were judged to be of a particular species, but that were not recently active, as well as dens that could be occupied by that species, but were not confirmed to have been occupied by the species.

4.2.2.3 Burrowing Owl Surveys

Burrowing owl surveys were conducted in areas of potentially suitable habitat on the Project site between early April and July 2018 per the guidelines for breeding-season surveys in Appendix D of the *Staff Report on Burrowing Owl Mitigation* (CDFG 2012). Suitable habitat areas within the Project site that were surveyed are identified as priority survey areas as indicated on Figure 3. Dudek biologists performed an initial survey pass in April 2018, with two or more biologists walking together in straight-line transects, with a maximum spacing of approximately 65 feet (20 meters). Biologists marked the location of all burrows approximately 4 inches or greater at the entrance using ESRI ArcGIS Collector. Burrows were investigated for burrowing owl sign, including regurgitated castings (pellets) of prey remains, scat (whitewash), and feathers, and the locations of any burrowing owl individuals were recorded. Areas of California ground squirrel (*Spermophilus beecheyi*) activity were also noted. Surveys were mostly conducted in hours when burrowing owls are active, from approximately 6:00 a.m. until approximately 10:00 am.

Based on the results of the initial pass, portions of the survey area where no suitable burrows or ground squirrel activity were noted were eliminated from the survey area as being currently unsuitable. Biologists employed the same methods in subsequent passes, focusing on the presence of burrowing owl sign and burrowing owls in the priority survey areas. Three additional survey passes were conducted in the priority survey areas between May 2018 and July 15, 2018, with each of the survey passes separated by at least three weeks. Table 2, below, summarizes the focused surveys conducted for burrowing owl on the Project site in 2018.

Table 2. Summary of Burrowing Owl, San Joaquin Kit Fox, and American Badger Surveys

Date	Time	Survey Type	Personnel	Site Conditions
4/10/2018	0845-1600	BUR, SJKF, AMBA	Russell Sweet, Chris Frey	69°F to 80°F, 40%-50% cloud cover, 7-11 mph winds
4/11/2018	0830-1330	BUR, SJKF, AMBA	Russell Sweet, Chris Frey	66°F to 72°F, 40%-30% cloud cover, 0-5 mph winds

Table 2. Summary of Burrowing Owl, San Joaquin Kit Fox, and American Badger Surveys

Date	Time	Survey Type	Personnel	Site Conditions
5/18/2018	0655-0730	BUR, SJKF, AMBA	Russell Sweet, Heather Moine	56°F, 0% cloud cover, 6 mph winds, gusts up to 8 mph
6/20/2018	0743-1000	BUR, SJKF, AMBA	Russell Sweet	74°F to 89°F, 0% cloud cover, 4-5 mph winds
7/13/2018	0745-0950	BUR, SJKF, AMBA	Russell Sweet	77°F to 84°F, 25%-10% cloud cover, 3-7 mph winds

Notes: SJKF – San Joaquin kit fox; BUR – burrowing owl; AMBA – American badger; BOT – botanicals; mph – miles per hour

4.2.2.4 Swainson's Hawk Surveys

Focused Swainson's hawk surveys were conducted according to the CDFW-endorsed protocol for the Central Valley, developed by the Swainson's Hawk Technical Advisory Committee (SHTAC 2000). Three surveys were conducted in Period III (April 5 to April 20) and two surveys in Period V (June 10 to July 31). Visits to monitor progress at potential nest sites were conducted during Period IV (April 20 to June 10). Because surveys began late, none were conducted during Period II of the protocol (March 20 to April 5). However, because Swainson's hawk activity increases around nest sites in the April 5 to April 20 period, Swainson's hawks are typically detected relatively easily during this period. In addition, the protocol recommends that surveys be conducted during a minimum of two of the five survey periods. Period I (January to March) is considered an optional survey period during which Swainson's hawks may not be present on territories. Biologists also recorded any Swainson's hawk observations and behavior incidentally observed during other biological surveys conducted in 2018. Information gained in this fashion was used to inform the focused surveys. Table 3, below, summarizes the Swainson's hawk surveys conducted on the Project site in 2018.

During each focused Swainson's hawk survey, biologists visited locations where suitable nest trees had been previously identified on the Project site and within approximately 1.0 mile of the site. Since surveys conducted during the June 10 to July 31 survey period resulted in no observations of nesting Swainson's hawks or nesting behavior, the survey was expanded to include a 5.0 mile buffer of the Project site in an attempt to locate nesting birds within the region that could potentially use the Project site as foraging habitat. Where possible, trees or tree clusters were examined from multiple angles and for extended periods. Trees that were confirmed not to have nests during early surveys were not prioritized during later surveys. Some areas where biologists did not have access to private roads received relatively limited coverage. Although orchards are not typically considered suitable nesting habitat for this species in the Central Valley, Swainson's hawks were observed exhibiting behavior consistent with potential nesting around orchards on the Project site, so additional focus was given to this agricultural community. Locations of any observed Swainson's hawks and suitable or active nest structures were documented and mapped.

Table 3. Summary of Swainson's Hawk Surveys

Date/Times	Times	Survey Type	Personnel	Site Conditions
4/10/2018	1430-2005	Swainson's Hawk Survey	Dave Compton	71°F to 77°F, 60%-70% cloud cover, 2-6 mph winds
4/11/2018	0732-1130	Swainson's Hawk Survey	Dave Compton	55°F to 67°F, 20%-30% cloud cover, 1-8 mph winds
4/12/2018	1630-1934	Swainson's Hawk Survey	Randall McInvale	72°F to 66°F, 5% cloud cover, 7.5-3 mph winds

Table 3. Summary of Swainson's Hawk Surveys

Date/Times	Times	Survey Type	Personnel	Site Conditions
4/13/2018	0633-1205	Swainson's Hawk Survey	Randall McInvale	58°F to 71°F, 0% cloud cover, 0-10 mph winds
4/19/2018	1634-1930	Swainson's Hawk Survey	Russell Sweet	70°F to 64°F, 45%-10% cloud cover, 12 mph winds
4/20/2018	0637-1206	Swainson's Hawk Survey	Russell Sweet	47°F to 69°F, sunny and clear, 0% cloud cover, 3-8 mph winds
6/20/2018	0743-1200	Swainson's Hawk Survey	Russell Sweet	74°F to 89°F, sunny and clear, 0% cloud cover, 4-5 mph winds
6/20/2018	1602-2015	Swainson's Hawk Survey	Russell Sweet	98°F to 84°F, sunny and clear, 0% cloud cover, 5-10 mph winds
7/17/2018	1600-2016	Swainson's Hawk Survey	Russell Sweet	102°F to 90°F, sunny and clear, 5%-10% cloud cover, 8-12 mph winds
7/18/2018	0730-1200	Swainson's Hawk Survey	Russell Sweet	75°F to 95°F, sunny and clear, 5%-25% cloud cover, 3-5 mph winds

Notes: mph – miles per hour

4.2.2.5 Delineation of Potentially Jurisdictional Aquatic Resources

Dudek biologist Randall McInvale performed a formal delineation of potentially jurisdictional aquatic resources within the Project site on September 12, 2018. All areas determined as being potentially subject to the jurisdiction of the USACE, RWQCB, or CDFW based on the literature/database review and/or on the initial reconnaissance-level field assessment described above were investigated to determine potential jurisdictional status.

The delineation was performed in accordance with the methods prescribed in the USACE's 1987 *Wetland Delineation Manual* (TR Y-87-1) (Environmental Laboratory 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008a), *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b). For non-tidal waters of the United States, the USACE generally takes jurisdiction within rivers and streams to the lateral extent of the "ordinary high water mark" (OHWM), where no adjacent wetlands are present. If adjacent wetlands are present, the jurisdiction extends to the limit of wetlands. The USACE and RWQCB jurisdictional determination consists of the field identification of jurisdictional wetlands using the three parameters described in the USACE manual: hydrophytic vegetation, hydric soils, and hydrology (Environmental Laboratory 1987). The presence of a defined channel (bed and bank) and/or predominance of hydrophytic vegetation, where associated with a stream channel, is used to determine the extent of CDFW jurisdiction.

Data collected during the field assessment consisted of wetland sample points (wetland determination data forms) and global positioning system (GPS) data associated with the geographic boundaries of potentially jurisdictional wetland and non-wetland waters.

5 Results

This section discusses results of the literature review and focused surveys conducted in 2018 as described in Section 4, above. Descriptions of the soil types occurring on the Project site are provided in Appendix A. Cumulative lists of plant and wildlife species observed during the surveys are included in Appendix B and Appendix C, respectively. Photo documentation of site conditions during the field surveys is provided in Appendix D.

At the time of the site visit, the Project site was not being actively farmed and appeared to be recently disked in preparation for the next dry farming season.

5.1 Vegetation Communities, Land Covers, and Floral Diversity

The vegetation communities and land cover types observed on the Project site are shown on Figure 4. A total of six land cover types including eucalyptus groves, quailbush scrub shrubland, tamarisk thickets, general agriculture, ruderal areas, and disturbed lands were mapped within the Project site and are summarized in Table 4 and described in more detail below. Of these communities, only the quailbush scrub shrubland alliance is considered to be a native community; no other native vegetation communities or any sensitive vegetation communities, were identified within the Project site.

Table 4. Existing Vegetation and Land Cover Types on the Heartland Solar Project Site

Land Cover Type	State Rank[1]	Acreage
Forest and Woodlands		
Eucalyptus Groves Woodland Semi-Natural Alliance (EG)	NR	17.14
Shrublands		
Quailbush Scrub Shrubland Alliance (QS)	S4	1.63
Tamarisk Thickets Shrubland Semi-Natural Alliance (TAM)	NR	3.30
Partially Vegetated and Non-Vegetated Habitats		
General Agriculture (AGR)	–	2,272.43
Ruderal (RUD)	–	20.80
Disturbed Lands (DL)	–	1.11
	Total	**2,316.41**

Notes:

[1] State rank in accordance with Sawyer et al. (2009) current rarity ranking (CNPS 2019a)
State Rank – the alliance's rarity and threat in California.
S4: Greater than 100 viable occurrences statewide, and/or more than 12,950 hectares. Not sensitive.
NR – no rank. No rank provided or listed as none.

5.1.1 Vegetation Communities and Other Land Cover Types

5.1.1.1 Eucalyptus Groves Woodland Semi-Natural Alliance

Eucalyptus Groves Woodland Semi-Natural Alliance ("eucalyptus groves") is listed in *A Manual of California Vegetation,* Second Edition (MCV2, Sawyer et al. 2009) and *California Natural Community List* (CNCL, CDFW 2018b) but does not have a state sensitivity rank as it is composed of non-native species. Eucalyptus groves contain eucalyptus trees (*Eucalyptus* spp.) as the dominant species in the tree canopy. The groves typically have an open to continuous tree canopy less than 197 feet (60 meters) in height. Understory shrubs and herbaceous layers are sparse to intermittent and the herbaceous layer is sparse to intermittent. Throughout California, eucalyptus groves occur as planted trees, groves, and windbreaks but also occur in uplands or bottomlands and adjacent to stream courses, lakes, or levees (Sawyer et al. 2009).

On the Project site, two eucalyptus groves comprising a total of 17.14 acres occur within the northern central portion of the site.

5.1.1.2 Quailbush Scrub Shrubland Alliance

Quailbush Scrub Shrubland Alliance ("quailbush scrub") is listed in MCV2 and CNCL as State Rank 4 (not sensitive) and is not considered a sensitive habitat. Quailbush scrub includes quailbush (*Atriplex lentiformis*) as dominant in the shrub canopy, has an open to intermittent shrub canopy less than 16 feet (5 meters) in height, and a variable herbaceous ground layer. Throughout southern California, quailbush scrub typically occurs on gentle to steep slopes from coastal shrublands, alkali sinks, alkali meadows, flats, washes, and wetlands, to inland desert washes and oases. It is often found in disturbed areas where soils are alkaline or saline clays (Sawyer et al. 2009).

One relatively small area of quailbush scrub, comprising 1.63 acres, was documented within the north-central portion of the Project site. In addition to quailbush, other species observed within the quailbush scrub included ripgut brome (*Bromus diandrus*) and annual yellow sweetclover (*Melilotus indicus*).

5.1.1.3 Tamarisk Thickets Shrubland Semi-Natural Alliance

Tamarisk Thickets Shrubland Semi-Natural Alliance ("tamarisk thickets") is listed in MCV2 and CNCL but does not have a state rank as it is composed of non-native species. Tamarisk thickets include tamarisk (*Tamarix ramosissima*) or other *Tamarix* spp. dominant in the shrub canopy. Emergent trees may be present at low cover, including Fremont cottonwood (*Populus fremontii*) or willow (*Salix* spp.). Tamarisk thickets shrubland semi-natural alliances occur at the margins of arroyos, lakes, ditches, washes, rivers, and other watercourses (Sawyer et al. 2009).

One tamarisk thicket community, comprising 3.30 acres, was mapped in the north-central portion of the Project site.

5.1.1.4 General Agriculture

General agriculture is an anthropogenic land cover type, is not described in MCV2 or CNCL, and does not have a state rank, as it is composed of non-native species. Farming practices on the project site include soil disking and tilling, crop planting/production, as well as regular maintenance and disturbance of areas under agricultural production. It is presumed that the farming practices include application of herbicides and fertilizer.

At the time of the field surveys, a majority of the Project site (2,272.43 acres), excluding farm service roadways, was being actively dry-farmed. It was evident that the site was recently disked as, at the time of the survey, the survey area supported no standing vegetation and appeared to be under agricultural production with winter and spring wheat crops.

5.1.1.5 Ruderal

Ruderal areas are characterized as being dominated by weedy, non-native and often invasive species with limited native vegetation resulting in area with low ecological value. Many such areas are a result of historical human-caused disturbances in previously undisturbed natural habitats and that now provide little habitat or foraging potential for wildlife due to the lack of significant cover and food value provided by native vegetation.

Ruderal habitat is not described in MCV2 or CNCL because it is not naturally occurring in California; it is not considered sensitive. Areas mapped as ruderal typically include access roads and roadside areas where vegetation in these areas, if present, is usually sparse and dominated by weedy herbaceous species.

Ruderal habitats comprise approximately 20.90 acres on the Project site and are associated with areas subject to frequent disturbance from vehicle traffic and are mostly absent of vegetation or contain semi-impervious compacted soil surfaces such as on dirt roads and adjacent areas.

5.1.1.6 Disturbed Lands

Disturbed lands are characterized by areas that lack vegetative cover. Disturbed habitat is not described in MCV2 or CNCL because it is not naturally occurring in California. Areas mapped as disturbed habitat (1.11 acres) include roads and adjacent areas.

5.2 Common Wildlife

5.2.1 Amphibians and Reptiles

Amphibians require standing or flowing water for part or all of their life cycle. Ponds, seasonal pools, and drainages provide suitable habitat for common amphibian species. The drainage ditches identified on the Project site did not contain water at the time of the field surveys and are presumed to only contain water during the winter rainy season. No amphibian species were observed during the surveys.

Reptiles occur within a diverse mix of habitats. They typically live in small burrows, which they also use as a refuge from differing ambient temperatures and predators. The history of extensive agricultural practices on the Project site has resulted in little to no suitable habitat being available for reptile species. However, the quailbush, tamarisk thickets, and ruderal communities on site do provide suitable habitat for reptile species. One common reptile species, gophersnake (*Pituophis catenifer*), was observed on the Project site during the field survey efforts.

5.2.2 Birds

The expanse of open agricultural fields on the Project site provides suitable foraging habitat for a variety of common raptor species. Several large trees and electrical transmission line towers adjacent to the site also provide suitable nesting habitat. Several raptor species were often observed throughout the Project site during various field surveys,

including but not limited to, red-tailed hawk (*Buteo jamacensis*), northern harrier (*Circus cyaneus*), and great-horned owl (*Bubo virginianus*). Swainson's hawk (*Buteo swainsoni*), a state-listed threatened species, was also observed and is discussed in more detail in Section 5.4 below.

The site also provides habitat for a variety of common non-raptor bird species. Species that were observed during the field surveys included common raven (*Corvus corax*), mourning dove (*Zenaida macroura*), northern mockingbird (*Mimus polyglottos*), European starling (*Sturnus vulgaris*), western meadowlark (*Sturnella neglecta*), house finch (*Haemorhous mexicanus*) white-crowned sparrow (*Zonotrichia leucophrys*), Eurasian collared-dove (*Streptopelia decaocto*), western kingbird (*Tyrannus verticalis*), mourning dove (*Zenaida macroura*), and loggerhead shrike (*Lanius ludovicianus*). Appendix C provides a list of all bird species observed during site visits.

5.2.3 Mammals

The agricultural fields on the Project site provide cover and foraging habitat for a variety of common small mammal species that, in turn, serve as a prey base for larger mammals and birds. Several small mammal species such as house mouse (*Mus musculus*), deer mouse (*Peromyscus maniculatus*), California vole (*Microtus californicus*), and harvest mouse (*Reithorodontomys megalotis*) may occur in the Project site. Small mammal burrows were observed during various survey efforts, but were largely limited to the ruderal and disturbed areas along the margins of the fields. Several burrows showed sign (i.e., tracks, scat, etc.) of use by California ground squirrel. Mammal species observed included desert cottontail (*Sylvilagus audubonii*) and black-tailed jackrabbit (*Lepus californicus*). Coyote (*Canis latrans*), SJKF, and red fox (*Vulpes vulpes*), are known to occur in the region and may use the Project site for foraging or dispersal. One individual coyote was incidentally observed on the site during the field surveys.

5.3 Common Plants

During the spring and summer 2018 floristic surveys, a total of 53 plant species were observed consisting of 25 percent native plant species and 75 percent non-native plant species. A cumulative list of the plant species observed is included in Appendix B.

5.4 Sensitive Biological Resources

5.4.1 Special-Status Plant Species

Focused surveys for special-status plants were conducted in 2018 to determine the presence/absence of select plant species with potential to occur. Dudek's habitat suitability analysis for special-status plants is based on vegetation, soils, topography, elevation, previous documented occurrences of special-status plants in the vicinity of the site, and field observations during floristic surveys. The site generally lacks habitat for special-status plant species, due to the extent of intensive and on-going disturbance from agricultural production and a lack of suitable communities that typically support the species occurring in the region. In addition, the nearest CNDDB occurrences for most species are more than 5.0 miles from the Project site (CDFW 2019a).

Table 5, below, lists the 22 special-status plant species documented within the region of the Project site, describes habitat requirements, and assesses their potential to occur. No special-status plants were observed on the Project site during the focused special-status plant surveys that were conducted within appropriate blooming periods of all target species.

Table 5. Special-Status Plant Species and Their Potential to Occur on the Project Site

Scientific Name	Common Name	Status (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Allium howellii var. *sanbenitense*	San Benito onion	None/None/1B.3	Chaparral (openings), valley and foothill grassland; clay, often steep slopes/perennial bulbiferous herb/Apr–May/1,275–4,480	**Not expected to occur.** The site is outside of the species' known elevation range. The Project site lacks chaparral (openings) and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Atriplex cordulata var. *cordulata*	heartscale	None/None/1B.2	Chenopod scrub, meadows and seeps, valley and foothill grassland (sandy); saline or alkaline/annual herb/Apr–Oct/0–1,835	**Not expected to occur.** The Project site lacks suitable chenopod scrub, meadows and seeps, and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Atriplex coronata var. *vallicola*	Lost Hills crownscale	None/None/1B.2	Chenopod scrub, valley and foothill grassland, vernal pools; alkaline/annual herb/Apr–Sep/160–2,085	**Not expected to occur.** The Project site lacks suitable chenopod scrub and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Atriplex depressa	brittlescale	None/None/1B.2	Chenopod scrub, meadows and seeps, playas, valley and foothill grassland, vernal pools; alkaline, clay/annual herb/Apr–Oct/0–1,050	**Not expected to occur.** The Project site lacks suitable chenopod scrub, meadows and seeps, playas, valley and foothill grassland, and vernal pool habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).

Table 5. Special-Status Plant Species and Their Potential to Occur on the Project Site

Scientific Name	Common Name	Status (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Atriplex minuscula	lesser saltscale	None/None/1B.1	Chenopod scrub, playas, valley and foothill grassland; alkaline, sandy/annual herb/May–Oct/45–655	**Not expected to occur** The Project site lacks suitable chenopod scrub, playa, and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Atriplex subtilis	subtle orache	None/None/1B.2	Valley and foothill grassland; Alkaline/annual herb/June, Aug, Sep (Oct)/130–330	**Not expected to occur.** The Project site lacks suitable valley and foothill grassland habitat. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Caulanthus lemmonii	Lemmon's jewelflower	None/None/1B.2	Pinyon and juniper woodland, valley and foothill grassland/annual herb/Feb–May/260–5,185	**Not expected to occur.** The Project site lacks suitable pinyon and juniper woodland and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Chloropyron palmatum	palmate-bracted bird's-beak	FE/SE/1B.1	Chenopod scrub, valley and foothill grassland; alkaline/annual herb (hemiparasitic)/May–Oct/15–510	**Not expected to occur.** The Project site lacks suitable chenopod scrub and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).

Table 5. Special-Status Plant Species and Their Potential to Occur on the Project Site

Scientific Name	Common Name	Status (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Deinandra halliana	Hall's tarplant	None/None/1B.1	Chenopod scrub, cismontane woodland, valley and foothill grassland; clay, sometimes alkaline/annual herb/(Mar)Apr–May/850–3,115	**Not expected to occur.** The site is outside of the species' known elevation range. The Project site lacks suitable chenopod scrub, cismontane woodland, and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Delphinium recurvatum	recurved larkspur	None/None/1B.2	Chenopod scrub, cismontane woodland, valley and foothill grassland; alkaline/perennial herb/Mar–June/5–2,590	**Not expected to occur.** The Project site lacks suitable chenopod scrub, cismontane woodland, and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Extriplex joaquinana	San Joaquin spearscale	None/None/1B.2	Chenopod scrub, meadows and seeps, playas, valley and foothill grassland; alkaline/annual herb/Apr–Oct/0–2,740	**Not expected to occur.** The Project site lacks suitable chenopod scrub, meadows and seeps, playa, and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Fritillaria viridea	San Benito fritillary	None/None/1B.2	Chaparral, cismontane woodland; serpentinite slopes; sometimes streambanks, sometimes rocky, sometimes roadsides/perennial bulbiferous herb/Mar–May/655–5,005	**Not expected to occur.** The site is outside of the species' known elevation range and there is no suitable vegetation present. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).

Table 5. Special-Status Plant Species and Their Potential to Occur on the Project Site

Scientific Name	Common Name	Status (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Layia discoidea	rayless layia	None/None/1B.1	Chaparral, cismontane woodland, lower montane coniferous forest; serpentinite, talus and alluvial terraces/annual herb/May/2,605–5,200	**Not expected to occur.** The site is outside of the species' known elevation range and there is no suitable vegetation present. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Layia heterotricha	pale-yellow layia	None/None/1B.1	Cismontane woodland, coastal scrub, pinyon and juniper woodland, valley and foothill grassland; alkaline or clay/annual herb/Mar–June/980–5,595	**Not expected to occur.** The site is outside of the species' known elevation range. The Project site lacks suitable cismontane woodland, coastal scrub, pinyon and juniper woodland, and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Layia munzii	Munz's tidy-tips	None/None/1B.2	Chenopod scrub, valley and foothill grassland (alkaline clay)/annual herb/Mar–Apr/490–2,295	**Not expected to occur.** CNDDB provides a general location for a historical (1940) occurrence, "8-9 miles south of Mendota" that is centered just east of the Project site and overlaps the site; however, the site is disturbed and the species was not observed during surveys performed during the blooming period (CDFW 2019).
Lepidium jaredii ssp. *album*	Panoche pepper-grass	None/None/1B.2	Valley and foothill grassland (steep slopes, clay, sometimes alkaline)/annual herb/Feb–June/605–2,445	**Not expected to occur.** The site is outside of the species' known elevation range. The Project site lacks valley and foothill grassland habitat. The nearest CNDDB occurrence is approximately 4.8 miles east of the Project site (CDFW 2019).

Table 5. Special-Status Plant Species and Their Potential to Occur on the Project Site

Scientific Name	Common Name	Status (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Madia radiata	showy golden madia	None/None/1B.1	Cismontane woodland, valley and foothill grassland/annual herb/Mar–May/80–3,985	**Not expected to occur.** The Project site lacks suitable cismontane woodland and valley and foothill grassland habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Malacothamnus aboriginum	Indian Valley bush-mallow	None/None/1B.2	Chaparral, cismontane woodland; rocky, granitic, often in burned areas/perennial deciduous shrub/Apr–Oct/490–5,575	**Not expected to occur.** The site is outside of the species' known elevation range and there is no suitable vegetation present. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Monolopia congdonii	San Joaquin woollythreads	FE/None/1B.2	Chenopod scrub, valley and foothill grassland (sandy)/annual herb/Feb–May/195–2,625	**Not expected to occur.** CNDDB provides a general location, "6 miles south of Mendota," for a historical (1935) occurrence that overlaps the northeastern part of the site and is noted as "possibly extirpated." However, the site is disturbed and the species was not observed during surveys performed during the blooming period (CDFW 2019).
Navarretia nigelliformis ssp. *radians*	shining navarretia	None/None/1B.2	Cismontane woodland, valley and foothill grassland, vernal pools; sometimes clay/annual herb/(Mar)Apr–July/210–3,280	**Not expected to occur.** The Project site lacks suitable cismontane woodland, valley and foothill grassland, and vernal pool habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).

Table 5. Special-Status Plant Species and Their Potential to Occur on the Project Site

Scientific Name	Common Name	Status (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Sagittaria sanfordii	Sanford's arrowhead	None/None/1B.2	Marshes and swamps (assorted shallow freshwater)/perennial rhizomatous herb (emergent)/May–Oct(Nov)/0–2,135	**Not expected to occur.** No suitable vegetation present. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Senecio aphanactis	chaparral ragwort	None/None/2B.2	Chaparral, cismontane woodland, coastal scrub; sometimes alkaline/annual herb/Jan–Apr(May)/45–2,625	**Not expected to occur.** The Project site lacks suitable chaparral, cismontane woodland, and coastal scrub habitats. In addition, the species was not observed during surveys performed during the blooming period and there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).

Notes:

CRPR – California Rare Plant Rank

- 1A – plants presumed extirpated in California and either rare or extinct elsewhere
- 1B – plants rare, threatened, or endangered in California and elsewhere
- 2A – plants presumed extirpated in California, but common elsewhere
- 2B – plants rare, threatened, or endangered in California, but more common elsewhere
- 3 – plants about which more information is needed – a review list
- 4 – plants of limited distribution – a watch list
  - 0.1 – seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat)
  - 0.2 – moderately threatened in California (20-80% occurrences threatened/moderate degree and immediacy of threat)
  - 0.3 – not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known)

Federal Designations

FE – Federally-listed as endangered

State Designations

SE – State-listed as endangered

5.4.2 Special-Status Wildlife Species

Focused wildlife surveys were conducted on the Project site in 2018 to document the presence or absence of select special-status species that have potential to occur. To determine the potential for special-status wildlife to occur on the Project site, Dudek compiled a list of wildlife species through a query of CNDDB and IPaC databases (CDFW 2019; USFWS 2019a). The query resulted in identification of 29 species that have potential to occur based on habitat and previous documented occurrences of the species. Dudek eliminated 18 of these species from further consideration based on several factors such as lack of suitable aquatic or terrestrial habitat, or the site being outside of the species' known range. In addition, many special-status wildlife species that occur in the area are avian species that may occasionally fly over or forage over the site, but that are not expected to breed on the site.

Table 6 lists those special-status wildlife species known to occur or with potential to occur on the site based upon soils, vegetation, and elevation and that have been documented within the region of the Project site. Figure 5 shows those special-status wildlife species which have been recorded by the CNDDB to occur within 5.0 miles of the Project site. Note that the species list was built for this analysis from a CNDDB query that included the two USGS quadrangles where the Project site occurs, plus the ten surrounding USGS quadrangles. Therefore, the species list in Table 6 includes species in CNDDB that have been recorded within a distance of greater than 10.0 miles. Table 6 lists the sensitivity status, habitat preference, and potential to occur for each of these species. Categories for potential to occur include "observed" (known to occur), "high potential to occur," "moderate potential to occur," low potential to occur," and "not expected" to occur, based on habitat preferences, range, and existing habitat observed onsite. Those species with some potential to occur or that were observed on the site (a total of 11 species) are discussed further below. Those that have no potential to occur due to various factors such as lack of suitable habitat, the site being outside the known elevation or geographic range, or species that have been extirpated from the region, are not discussed further in this report.

Table 6. Special-Status Wildlife Species and Their Potential to Occur on the Project Site

Scientific Name/ Common Name	Status (Federal/State)	Habitat	Potential to Occur
Invertebrates			
Branchinecta longiantenna longhorn fairy shrimp	FE/None	Sandstone outcrop pools, alkaline grassland vernal pools, and pools within alkali sink and alkali scrub communities	**Not expected to occur.** The Project site lacks suitable habitat required for this species. In addition, the nearest CNDDB occurrence is approximately 0.7 mile east of the Project site (CDFW 2019).
Branchinecta lynchi vernal pool fairy shrimp	FT/None	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats	**Not expected to occur.** The Project site lacks suitable habitat required for this species. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Amphibians			
Rana boylii foothill yellow-legged frog	None/SSC	Rocky streams and rivers with open banks in forest, chaparral, and woodland	**Not expected to occur.** The Project site lacks suitable habitat required for this species. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Spea hammondii western spadefoot	None/SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agriculture	**Not expected to occur.** The Project site lacks suitable habitat required for this species. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Reptiles			
Gambelia sila blunt-nosed leopard lizard	FE/SE, FP	Sparsely vegetated alkali and desert scrubs, including semi-arid grasslands, alkali flats, and washes	**Not expected to occur.** The Project site lacks suitable habitat required for this species. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Masticophis flagellum ruddocki San Joaquin whipsnake	None/SSC	Open, dry, treeless areas including grassland and saltbush scrub	**Not expected to occur.** The Project site lacks suitable habitat required for this species. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).

Table 6. Special-Status Wildlife Species and Their Potential to Occur on the Project Site

Scientific Name/ Common Name	Status (Federal/State)	Habitat	Potential to Occur
Phrynosoma blainvillii Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	**Not expected to occur.** The Project site lacks suitable habitat required for this species. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Thamnophis hammondii two-striped gartersnake	None/SSC	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools	**Not expected to occur.** The Project site lacks suitable habitat required for this species. In addition, the nearest CNDDB occurrence is approximately 0.7 mile east of the Project site (CDFW 2019).
Birds			
Agelaius tricolor tricolored blackbird (nesting colony)	BCC/SSC	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture	**Low potential to occur.** No suitable nesting habitat is present onsite. However, the Project site does provide suitable foraging habitat, and the species is known to nest as close as 3.1 miles northeast of the Project site (CDFW 2018a). Additional suitable habitat in the Mendota Wildlife Area may be closer than this. Therefore, the species could potentially occur onsite during winter and/or foraging during nesting season.
Asio flammeus short-eared owl (nesting)	None/SSC	Grassland, prairies, dunes, meadows, irrigated lands, and saline and freshwater emergent wetlands	**Low potential to occur.** While there are no breeding occurrences within approximately 5 miles of the Project site (CDFW 2019), the Project site has suitable ground nesting vegetation and herbaceous cover within the eucalyptus grove area. The Project site also provides suitable foraging habitat for this species.
Athene cunicularia burrowing owl (burrow sites and wintering sites)	BCC/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	**Low potential to occur.** The nearest CNDDB occurrence is approximately 2.6 miles northeast of the Project site (CDFW 2019).The Project site provides suitable foraging habitat and limited suitable nesting habitat. During CDFW protocol surveys that were conducted on the site, no burrowing owls were present.

Table 6. Special-Status Wildlife Species and Their Potential to Occur on the Project Site

Scientific Name/ Common Name	Status (Federal/State)	Habitat	Potential to Occur
Buteo swainsoni Swainson's hawk (nesting)	BCC/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	**Moderate potential to occur (nesting).** The Project site provides suitable nesting and foraging habitat. Surveys conducted in 2018 per CDFW survey protocols resulted in no successful SWHA nesting on the site or within a 1-mile buffer. However, Swainson's hawks were observed perching and foraging onsite on several occasions during surveys (Figure 6). A pair of Swainson's hawks was observed at a nest east of SR-33 on April 20, 2018, and the pair was observed copulating. By June 20, 2018, the nest had apparently been abandoned. The nearest CNDDB occurrence is approximately 4.7 miles northwest of the site (CDFW 2019).
Charadrius montanus mountain plover (wintering)	BCC/SSC	Winters in shortgrass prairies, plowed fields, open sagebrush, and sandy deserts	**Moderate potential to occur.** The Project site provides suitable wintering habitat and there is some potential for the species to occur during winter or migration. Records for this species are scarce in the region, however, and many areas of apparently suitable habitat are unoccupied. The nearest CNDDB occurrence is approximately 2.8 miles east of the Project site (CDFW 2019).
Circus cyaneus northern harrier (nesting)	None/SSC	Nests in open wetlands including marshy meadows, wet lightly-grazed pastures, old fields, freshwater and brackish marshes, but also in drier habitats such as grassland and grain fields; forages in variety of habitats, including grassland, scrubs, rangelands, emergent wetlands, and other open habitats.	**Not expected to occur (nesting).** Observed foraging onsite on April 10, 2018. The site lacks the tall dense ground cover for suitable nesting habitat. However, the site does provide suitable foraging habitat and one harrier was observed just northwest of the site during migratory period in 2018.
Coccyzus americanus occidentalis western yellow-billed cuckoo (nesting)	FT, BCC/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	**Not expected to occur.** The Project site does not provide suitable nesting or foraging habitat. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).

Table 6. Special-Status Wildlife Species and Their Potential to Occur on the Project Site

Scientific Name/ Common Name	Status (Federal/State)	Habitat	Potential to Occur
Eremophila alpestris actia California horned lark	None/WL	Nests and forages in grasslands, disturbed lands, agriculture, and beaches; nests in alpine fell fields of the Sierra Nevada	**Occurs onsite.** The Project site contains suitable nesting habitat within the plowed fields and open bare ground areas. The Project site also provides suitable foraging habitat for this species. Several California horned lark were observed during fieldwork conducted on the site.
Falco columbarius merlin (wintering)	None/WL	Forages in semi-open areas, including coastline, grassland, agriculture, savanna, woodland, lakes, and wetlands	**Moderate potential to occur.** The Project site provides suitable foraging habitat and the species could forage onsite on an irregular basis during winter or migration.
Falco mexicanus prairie falcon (nesting)	BCC/WL	Forages in grassland, savanna, rangeland, agriculture, desert scrub, alpine meadows; nest on cliffs or bluffs	**Not expected to occur (nesting).** Moderate potential to forage outside the nesting season. No suitable nesting habitat is present on site. In addition, there are no breeding occurrences within approximately 5 miles of the Project site (CDFW 2019a). However, the site does provide suitable foraging habitat and because this species is known to occur within the region, there is potential for prairie falcon to forage onsite on a regular basis.
Lanius ludovicianus loggerhead shrike (nesting)	None/SSC	Nests and forages in the open habitats with scattered shrubs, trees, or other perches.	**Occurs onsite.** Suitable nesting and foraging habitat is present on the Project site. Eight loggerhead shrikes were observed onsite during survey efforts (Figure 6).
Plegadis chihi white-faced ibis (nesting colony)	None/WL	Nests in shallow marshes with areas of emergent vegetation; winter foraging in shallow lacustrine waters, flooded agricultural fields, muddy ground of wet meadows, marshes, ponds, lakes, rivers, flooded fields, and estuaries	**Not expected to occur (nesting).** No suitable nesting habitat is present onsite. CNDDB includes no breeding occurrence within 5 miles of the Project site (CDFW 2019a). However, the Project site does provide suitable foraging habitat, and the species could forage onsite on an irregular basis at any season.

Table 6. Special-Status Wildlife Species and Their Potential to Occur on the Project Site

Scientific Name/ Common Name	Status (Federal/State)	Habitat	Potential to Occur
Riparia riparia bank swallow (nesting)	None/ST	Nests in riparian, lacustrian, and coastal areas with vertical banks, bluffs, and cliffs with sandy soils; open country and water during migration	**Not expected to nest.** Low potential to occur while foraging. No suitable nesting habitat is present onsite. In addition, there are no breeding occurrences within approximately 5 miles of the Project site (CDFW 2019). However, while the species is not expected to nest onsite, the Project site does provide marginally suitable foraging habitat, mostly in winter, due to the lack of irrigation.
Mammals			
Ammospermophilus nelsoni Nelson's antelope squirrel	None/ST	Arid annual grassland and shrubland with saltbushes (*Atriplex* spp.), California jointfir (*Ephedra californica*), bladderpod (*Physaria* spp.), goldenbushes (*Astereae*), snakeweed (*Gutierrezia* spp.)	**Not expected to occur.** No suitable habitat present on the Project site. The clay loam soils as well as the regular tilling of the Project site makes the site unsuitable habitat. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Dipodomys ingens giant kangaroo rat	FE/SE	On fine sandy loam soils with sparse forb vegetation and low-density alkali desert scrub	**Not expected to occur.** No suitable habitat present on the Project site. The clay loam soils as well as the regular tilling of the Project site makes the site unsuitable habitat. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Dipodomys nitratoides exilis Fresno kangaroo rat	FE/SE	Alkali sink/open grassland habitats; sands and saline sandy soils in chenopod scrub	**Not expected to occur.** No suitable habitat present on the Project site. The clay loam soils as well as the regular tilling of the Project site makes the site unsuitable habitat. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).

Table 6. Special-Status Wildlife Species and Their Potential to Occur on the Project Site

Scientific Name/ Common Name	Status (Federal/State)	Habitat	Potential to Occur
Eumops perotis californicus western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	**Not expected to roost.** The Project site lacks suitable substrates for roosting. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 20189). In addition, this species has a low potential to forage because of the lack of suitable roosting habitat in the vicinity.
Lasiurus blossevillii western red bat	None/SSC	Forest, woodland, riparian, mesquite bosque, and orchards, including fig, apricot, peach, pear, almond, walnut, and orange; roosts in tree canopy	**Moderate potential to roost.** The orchards in the southwest portion of the Project site, and the central eucalyptus groves within the project site, may be used for roosting. There are no occurrences within approximately 5 miles of the Project site (CDFW 2019), although this species is known to occur in the San Joaquin Valley.
Onychomys torridus tularensis Tulare grasshopper mouse	None/SSC	Low, open scrub, and semi-scrub habitats in arid Lower Sonoran associations	**Not expected to occur.** No suitable habitat present on the Project site. The clay loam soils as well as the regular tilling of the Project site makes the site unsuitable habitat. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019).
Taxidea taxus American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	**Low potential to occur.** Although badgers will utilize a variety of habitats (including agriculture), the majority of the Project site is regularly tilled, which makes most of the site unsuitable. No suitable burrows for badger were observed during focused surveys. In addition, there are no occurrences within approximately 5 miles of the Project site (CDFW 2019). However, there is potential for this species to irregularly pass through some areas of the site during movement events.

Table 6. Special-Status Wildlife Species and Their Potential to Occur on the Project Site

Scientific Name/ Common Name	Status (Federal/State)	Habitat	Potential to Occur
Vulpes macrotis mutica San Joaquin kit fox	FE/ST	Grasslands and scrublands, including those that have been modified; oak woodland, alkali sink scrubland, vernal pool, and alkali meadow	**Low potential to occur.** The Project site provides suitable habitat where this species may forage or burrow. Suitable denning habitat is present. Although no sign of presence of SJKF was observed during surveys of the site, this species occurs within the region and could pass through the Project site or potentially den there in the future.

Notes:
FE = Federally listed as endangered.
FT = Federally listed as threatened.
FP = State Fully Protected.
SE = State listed as endangered.
ST = State listed as threatened.
SSC = California Species of Concern.
BCC=Bird of Conservation Concern
WL = CDFG Watch List.

5.4.2.1 Birds

Thirteen special-status bird species were identified as occurring in the vicinity of the project site, including six that are either listed as endangered or threatened under ESA or CESA or designated as SSC. Species addressed in greater detail below include those bird species either observed during surveys or those considered to have some potential to occur.

Burrowing Owl

Burrowing owl is a USFWS bird of conservation concern and a California Species of Special Concern (SSC). With a relatively wide-ranging distribution throughout the west, burrowing owls are considered to be habitat generalists (Lantz et al. 2004). In California, burrowing owls are yearlong residents of open, dry grassland and desert habitats, and in grass, forb and open shrub stages of pinyon-juniper and ponderosa pine habitats (Zeiner et al. 1990). Preferred habitat is generally typified by short, sparse vegetation with few shrubs, level to gentle topography, and well-drained soils (Haug et al. 1993).

In California, western burrowing owls most commonly live in burrows created by California ground squirrels (*Spermophilus beecheyi*). Burrowing owls may occur in human-altered landscapes such as agricultural areas, ruderal grassy fields, vacant lots, and pastures if the vegetation structure is suitable (i.e., open and sparse); useable burrows or shelter sites are available; and foraging habitat occurs in close proximity (Gervais et al. 2008). Debris piles, rip rap, culverts, and pipes can be used for nesting and roosting.

Several suitable size burrows at least 3-inches in diameter were observed on the Project site. Surveys resulted in no observations of burrowing owl or any sign (i.e., whitewash, pellets, prey remains, feathers, etc.) of this species. However, the Project site does contain potential nesting and foraging habitat for this species.

California Horned Lark

The California horned lark is a WL species that lives in open habitats such as those that are present on the site. This species may forage in the recently plowed fields or agricultural areas on and surrounding the Project site. The Project site provides suitable foraging and nesting habitat for California horned lark during periods when the ground remains undisturbed by plowing or tilling. Although horned lark were observed during the field surveys, no nesting horned lark were observed.

Loggerhead Shrike

The loggerhead shrike is a USFWS Bird of Conservation Concern and a SSC. It is widespread throughout the United States, Mexico, and portions of Canada (Humple 2008). The species is a yearlong resident in most of the United States, including from California east to Virginia and south to Florida, and in Mexico. In California, while shrikes are widespread at the lower elevations in the state, the largest breeding populations are located in portions of the Central Valley, the Coast Ranges, and the southeastern deserts (Humple 2008).

Preferred habitats for loggerhead shrikes are open areas that include scattered shrubs, trees, posts, fences, utility lines, or other structures that provide hunting perches with views of open ground, as well as nearby spiny vegetation or man-made structures (such as the top of chain-link fences or barbed wire) that provide a location to impale prey items for storage or manipulation (Humple 2008). Loggerhead shrikes occur most frequently in riparian areas along

the woodland edge, grasslands with sufficient perch and butcher sites, scrublands, and open canopied woodlands, although they can be quite common in agricultural and grazing areas, and can sometimes be found in mowed roadsides, cemeteries, and golf courses. Loggerhead shrikes occur only rarely in heavily urbanized areas. For nesting, the height of shrubs and presence of canopy cover are most important (Yosef 1996).

The Project site provides suitable foraging and nesting habitat for loggerhead shrikes. Loggerhead shrike were observed on eight occasions during the field surveys. However, no nesting loggerhead shrike were observed.

Mountain Plover

The mountain plover is a California Species of Concern during its wintering period in California from September through March, when it can be found on short grasslands and plowed fields of the Central Valley from Sutter and Yuba Counties southward. Mountain plovers are also found in foothill valleys west of San Joaquin Valley, the Imperial Valley, plowed fields of Los Angeles and western San Bernardino counties, and along the central Colorado River valley. They are found in areas with little or no vegetation, including short grasslands, freshly plowed fields, newly sprouting grain fields, and sod farms.

Focused biological surveys were not conducted to detect mountain plovers, and no biological surveys were conducted during the winter season. Conditions vary from winter to winter in the agricultural lands and pastures where this species often is found. Therefore, occurrence may be sporadic, and mountain plovers may occur on the site on occasion during winter or migration, depending on crop rotation and other factors influencing habitat conditions. The nearest CNDDB occurrence was recorded in December 2001 and is located approximately 2.8 miles east of the Project site (CDFW 2019).

Northern Harrier

The northern harrier is a SSC when breeding. It breeds throughout most of Canada and Alaska; south through the northern and central Great Basin, Rocky Mountains, and Great Plains; in the northeastern United States; and in scattered locales from central, coastal, and southwestern California south to Baja California, Mexico (Smith et al. 2011). Northern harriers winter across most of the coterminous United States south through Mexico, Central America, the Bahamas, and Cuba. In California, northern harriers breed in the Central Valley, Great Basin, most of the Coast Ranges, and in some coastal areas from San Luis Obispo County southward (Davis and Niemela 2008). The Central Valley supports the majority of nesting harriers in California, despite substantial habitat losses in that region.

Northern harriers breed up to about 2,600 feet elevation in the western Sierra Nevada foothills, where they favor open wetland, pasture, and grassland habitats, but also forage in open sagebrush (*Artemisia* spp.) flats (Beedy and Pandolfino 2013). Harriers nest on the ground in wet meadows, marshes, and grasslands, where at least moderately tall and dense vegetation provides sufficient cover to conceal their nest. Extensive grazing generally precludes nesting by northern harriers, which typically require relatively large tracts of undisturbed habitat dominated by thick, tall vegetation, most often in or near wet areas (Smith et al. 2011).

The CNDDB (CDFW 2019) contains no harrier nest records within 5.0 miles of the Project site. In addition, the Project site does not contain suitable nesting habitat for this species. However, during Swainson's hawk surveys on April 20, 2018, one northern harrier was observed just northwest of the Project site (Figure 6).

Swainson's Hawk

The Swainson's hawk (*Buteo swainsoni*) is listed as threatened under CESA. It nests in California in the Central Valley, Klamath Basin, Northeastern Plateau, Lassen County, and the Mojave Desert. This species breeds in riparian areas, stands of trees in agricultural environments, oak savannah, and juniper-sage flats. In the San Joaquin Valley, it typically nests in riparian areas and in isolated tree clusters, often near rural residences or other areas with some human disturbance. Alfalfa fields are the favored foraging areas of Swainson's hawk in the Central Valley, but the species also forages in other low-density row crops, undisturbed grasslands, rangelands, and fallow agricultural fields.

During the initial reconnaissance-level surveys conducted in March 2018, suitable nesting habitat on the Project site was identified within the eucalyptus grove and tamarisk thickets. Offsite nesting habitat was observed within 1.0 mile of the site, including north along Hwy-33 within a long windrow of tamarisk and cottonwood trees, and at several isolated trees and small tree clusters at several locations around the site (Figure 6). Access restrictions made surveying areas off the Project site difficult. However, none of these areas is within 0.5 mile of any area that would potentially be developed as part of the Project.

On April 10, 2018, two adult Swainson's hawks were observed onsite perched together on a snag above an old nest that is suitable in size, but highly exposed, along the northern side of West Adams Avenue (Figure 6). During the observation, one individual was observed to briefly stand in the nest. On April 11, 2018, both adults were observed bringing nest material to the nest. During subsequent surveys, one to two Swainson's hawks were observed consistently in the vicinity of the nest; one hawk was observed perched at the nest tree on April 20, when it was standing in the nest for a brief period of time. During later surveys conducted on June 20, 2018, the nest was no longer present in the snag. Upon closer inspection of the snag, no nesting material was observed below the tree. There was no clear evidence as to why the nest was no longer present and no Swainson's hawks were observed in the area.

Another apparent Swainson's hawks nesting attempt was observed during surveys conducted adjacent to the Project site (Figure 6). On April 12, 2018, one adult Swainson's hawk was observed in a nest within a tamarisk tree approximately 150-feet east of the Project site. The nest was small and appeared to be under construction at the time. A second Swainson's hawk was observed to join the first hawk and both perched near the nest at times. Both birds were observed to chase off a crow within their territory. On April 20, 2018, the two hawks were observed copulating in an adjacent tree. Post copulation, the hawks were observed bringing nesting material to the nest three times during the observation period. However, a subsequent visit to the area on June 20, 2018, resulted in no observations of hawks on the nest and no evidence of nest activity occurring. One adult hawk was observed perched in an adjacent tree but did not approach the nest during the observation period. The biologist conducted observations at the nest several times during the survey period and each visit resulted in no observations of nesting activity or adult Swainson's hawks within the area. Survey visits conducted on July 17 and 18, 2018, also resulted in no observations of nesting activity or adult Swainson's hawks within the area.

Nesting Swainson's hawk surveys were also conducted within 5.0 miles of the Project site and included surveys of nests previously documented in CNDDB. One active nest not previously recorded by the CNDDB was observed by Dudek biologists on July 18, 2018, approximately 2.8 miles east of the Project site inside the Mendota Wildlife Area. One young individual with full feathers was observed feeding in the nest and one adult was observed immediately adjacent to the nest.

One nest site has been documented in the CNDDB within the 5-mile survey area, approximately 4.7 miles northwest of the Project site. This nest site was visited on July 18, 2018. The nest location is documented as being within pine trees associated with a private residence. The CNDDB record indicates that nesting was not confirmed at the time of the observation. At the time of Dudek's survey, two Swainson's hawks were observed in a pine tree on the residence property. However, access to the property was denied and nesting was not confirmed.

Dudek also visited a CNDDB nest site 5.2 miles northeast of the Project site, in the Mendota Wildlife Area. The nest was observed active in June 2008 with no activity in July 2008 (young were presumed fledged). There have been no updates in the CNDDB to this nest location since 2008. LSA conducted protocol Swainson's hawk surveys in 2017 as part of the Little Bear Solar Project located 2 miles north of the Project site (LSA 2017). Their survey area included this nest location, which resulted in no nesting activity observed (LSA 2017). Dudek conducted a survey of the above nest location on July 18, 2018 and no SWHA were observed in the vicinity of the nest location.

In addition, one new active Swainson's hawk nest was observed during protocol surveys conducted by LSA in 2017 for the Little Bear Solar Project. The nest was observed in a casuarina tree (*Casuarina* sp.) west of SR-33 approximately 1.5 miles south of the Little Bear Solar Project and 1.5 miles north of the Heartland Project site. On July 12, 2017, two fledglings and one adult Swainson's hawk were observed on the nest, while one adult Swainson's hawk was observed soaring overhead (LSA 2017). Although Swainson's hawks were observed foraging in the area during protocol level surveys conducted in 2018, no Swainson's hawks were observed nesting at this location. The nest tree was inspected for the presence of the nest on April 12, 2018 and again on April 20, 2018 by two different surveyors; no nests were observed during either survey.

5.4.2.1.1 Other Birds of Prey

Two uncommon birds of prey, the merlin (*Falco columbarius*), a WL species, and prairie falcon (*Falco mexicanus*) a BCC and WL species, have the potential to forage on the Project site and surrounding lands. The merlin does not nest in California; however, it forages in open habitats such as are present on the Project site. The Project site does not contain suitable nesting habitat for prairie falcons; however, the site does provide suitable foraging habitat. Both species occur in a variety of habitats across California, including grasslands, agricultural lands, open brushlands, and open forest. No merlin or prairie falcons were observed during the biological surveys on the project site. However, the surveys were not conducted at an appropriate time of year (fall and winter) to detect merlin.

5.4.2.1.2 Additional Special-Status Bird Species Occurring in the Region

Three additional special-status bird species are known to occur in the region and may forage on the Project site: the tricolored blackbird (*Agelaius tricolor*; ST, SSC for nesting), white-faced ibis (*Plegadis chihi*; SSC for nesting), and bank swallow (*Riparia riparia*; ST). The tricolored blackbird breeds near fresh water, preferably in emergent wetlands with tall, dense cattails or tules, but also in thickets of willow, blackberry, wild rose, and tall herbaceous vegetation. These habitats do not occur on the Project site; however, Fresno Slough and the Mendota Wildlife Area support suitable habitat and this species could periodically use onsite agricultural fields as foraging habitat during the nesting season. It also potentially occurs on the site during winter. No tricolored blackbirds were observed during biological surveys in 2018. CNDDB includes an occurrence for this species at the Mendota Wildlife Area, approximately 3.1 miles east of the Project site.

The white-faced ibis is a WL species that nests in dense emergent wetlands and feeds in emergent wetlands, lacustrine waters, muddy ground in wet meadows, and irrigated pastures or croplands. No white-faced ibis were seen at the Project site or within 1.0 mile of the site and no nesting habitat is present in the

immediate vicinity. In addition, no CNDDB occurrences for this species have been recorded within 5.0 miles of the Project site. However, the project site contains suitable foraging habitat for this species, there is low potential for this species to be present during foraging activities.

The bank swallow is a state threatened species which almost always nests near water. Bank swallow require fine-textured or sandy banks or cliffs to dig horizontal nesting tunnel and burrow (Zeiner et al. 1990). These habitats are absent on the Project site; however, the Fresno Slough and Mendota Wildlife Area support suitable habitat. No bank swallows were observed during biological surveys in 2018. No CNDDB occurrences for this species have been recorded within 5.0 miles of the Project site. However, because the project site contains suitable foraging habitat for this species, there is low potential for this species to forage on the Project site during migration or dispersal.

5.4.2.2 Mammals

As noted in Table 6, two special-status mammal species (SJKF and Western red bat) were identified as having potential to occur on the Project site. Each of these species is discussed further below.

San Joaquin Kit Fox

The SJKF is a year-round resident of arid and semi-arid regions of the San Joaquin Valley and surrounding valleys, and lower elevations of the Sierra Nevada foothills and Coast Ranges from northern Santa Barbara and Ventura Counties north to Contra Costa and San Joaquin Counties (USFWS 1998). The SJKF is the smallest canid species in North America (USFWS 2011).

Kit foxes in the northern portion of the range are mostly associated with annual grassland and valley oak woodland (USFWS 1998). Where kit foxes are found in annual grassland, such as in surrounding valleys, they are generally associated with brome grasses (*Bromus* spp.), fescue (*Festuca* spp.), wild oats (*Avena fatua*), barley (*Hordeum* spp.), and filaree (*Erodium* spp.).

The surveys for SJKF dens on the Project site were conducted on several dates between April and July 2018. During the surveys, eight burrows meeting the minimum size criterion were identified and examined. Of these, none were determined to be SJKF natal dens or active dens. In addition, none were occupied by kit foxes or contained sign (i.e., scat, prey remains, fresh digging, claw marks, etc.) of recent use by kit foxes. Given the relative scarcity of suitable prey on the managed agricultural fields, the disturbed nature of the site, and the lack of CNDDB records in the immediate site vicinity, the potential for SJKF to occur on the site is considered low. This species would likely only occur during long-range movements when individuals may pass through the site between areas of higher quality habitat within the region.

The closest occurrence of the SJKF was recorded in 1947, approximately 7.0 miles northeast of the Project site within the limits of the City of Mendota. Although this species is known to occur in western Fresno County, the CNDDB query resulted in no records of SJKF occurrence within 5.0 miles of the Project site.

Western Red Bat

Western red bat is a SSC. It occurs in the western United States, Mexico, Central Mexico, and possibly South America (Cryan 2003; Pierson et al. 2006). In California, most of the records are from the Central Valley, which is the breeding center for the western red bat in the state. However, western red bats also occur throughout low elevation

areas of California. Generally a year-round resident, there is evidence for seasonal movements in California, but little evidence for mass migrations characteristic of the eastern red bat (*Lasiurus borealis*) and other tree bats (Cryan 2003; Pierson et al. 2006). In the Central Valley, foraging western red bats are closely associated with well-developed riparian zones that provide suitable roosting sites (Pierson et al. 2006). However, western red bats have also been observed in orchard trees and other non-native trees.

No CNDDB occurrences for this species have been recorded within 5.0 miles of the Project site (CNDDB 2018). However, the almond orchards located adjacent and west of the southwest corner of the Project site provide some potential for roosting western red bats; however, due to the regular occurring maintenance to these orchards, the potential for red bats to establish maternity roosts in these trees is considered low, although individuals may roost here for short periods.

5.4.3 Wildlife Movement Corridors

Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration and dispersal of many terrestrial animal species. Wildlife corridors contribute to population viability by assuring continual exchange of genes between populations, providing access to adjacent habitat areas for foraging and mating, and providing routes for recolonization of habitat after local extirpation or ecological catastrophes (e.g., wildfires). Small patches of habitat that serve to connect larger blocks of habitat can often serve as movement corridors and help reduce the adverse effects of habitat fragmentation. Such linkages may be continuous habitat or discrete habitat islands that function as stepping stones for dispersal.

Formal wildlife movement studies were not conducted on the Project site. Given the expanse of open agricultural lands surrounding the Project site, the site itself is not considered an important linkage between larger open space areas that serve as wildlife habitat; in addition, the site and immediate area is not recognized as an important regional migratory corridor by the County or state resource agencies. Although some animals may pass through or along the periphery of the site during localized movement events in search of food or shelter, the agricultural fields can pose a hindrance to movement during the growing season, when crops are mature and actively farmed. During the non-growing season, these fields provide little cover for a large number of species and may expose smaller, less mobile species to predation. The orchards provide good cover for movement where the terrain is relatively flat. However, the small agricultural ditches on the Project are generally shallow, dense with upland vegetation, and do not have connectivity to any natural drainages or waterways; therefore, none of these drainages likely serve as important movement corridors.

5.5.4 Sensitive Vegetation Communities

Sensitive vegetation communities include wetland and riparian communities, as well as those communities that CDFW (2018b) or CNDDB (CDFW 2019) has identified as a high priority for inventory due to a rarity ranking of S1, S2, or S3. Sensitive vegetation communities include areas of sensitive wildlife habitat and plant life (e.g., vernal pools, riparian habitats, flyways and other waterfowl habitats, etc.). No sensitive vegetation communities occur on the Project site.

5.5.5 Potentially Jurisdictional Aquatic Resources

The literature review completed for the Project, including a review of the NWI as noted in Section 4.1, resulted in the identification of a number of potentially jurisdictional aquatic features that may be subject to regulation by the

USACE, RWQCB, and/or CDFW (USFWS 2019b). As previously discussed, Dudek completed a formal delineation of aquatic resources that assessed the entire Project site for the presence of hydrophytic vegetation, hydric soils, and wetland hydrology. Channel features capable of conveying surface water flows were also assessed. In total, two potentially jurisdictional wetland features were assessed and wetland determination data forms were completed for each of these features. A brief discussion of each feature evaluated during the aquatic resources field assessment is provided below. The delineation of aquatic resources, including delineation map, data forms, and photo documentation will be provided in a separate, stand-alone report.

The NWI review identified a number of aquatic resource features classified as R5UBFx – Riverine(R) Unknown Perennial (5) Unconsolidated Bottom (UB) Semi-permanently Flooded (F) Excavated (x), which consist of agricultural ditches, channels and swales. As described in the NWI, these R5UBFx features make up a vast network of interconnected channels throughout the landscape both within the Project site, as well as extending out to agricultural land well beyond the site. Based on the NWI, these features are located along road margins and between agricultural fields, though a review of current site conditions indicate that the majority of these R5UBFx features are no longer present within the Project site and surrounding areas. Few shallow agricultural ditches and swales remain; however, these features do not support defined bed and bank and are isolated (i.e., connections between these features are irregular). Furthermore, these features do not support hydrophytic vegetation or any indicators of wetland hydrology.

A total of five R5UBFx features are present on the Project site that are measurably larger in both depth and overall area. Although these features did not support hydrophytic vegetation or indicators of wetland hydrology, a sample point was established and excavated in the largest of these features to examine indicators of hydric soil. No indicators of hydric soil were observed. Based on the lack of wetland indicators and the lack of connectivity to any waterways in the region, these features are determined to be non-jurisdictional.

Another potentially jurisdictional feature was identified in the NWI review. This features was classified as PUBK – Palustrine (P) Unconsolidated Bottom (UB) Artificially Flooded (K), which is a possible prior irrigation pond. During the aquatic resources field assessment, this feature was assessed and was found to be located in a recently tilled field with no visible topographic relief that would indicate any potential for surface ponding. Nevetheless, this feature was evaluated for the presence of wetland indicators and was found to be negative for hydrophytic vegetation and wetland hydrology. Following the establishment and examination of a sample site within this feature, no indicators of hydric soils were encountered. Based on the lack of wetland indicators and the lack of connectivity to any waterways in the region, this feature was determined to be non-jurisdictional.

Other hydrologic features present within the Project site include culverts under SR-33 that presumably direct road runoff and stormwater runoff to the east and northeast. Although none of the aquatic features evaluated during the field assessment were found to have a connection to these culverts, surface water runoff potentially present during large storm events would presumably flow through these culverts toward Fresno Slough. However, due to the lack of any surface connection to a defined channel, ditch, creek or any other aquatic resources, these culverts are considered to be non-jurisdictional features. In summary, no waters of the United States/State, including wetlands, were identified on the Project site.

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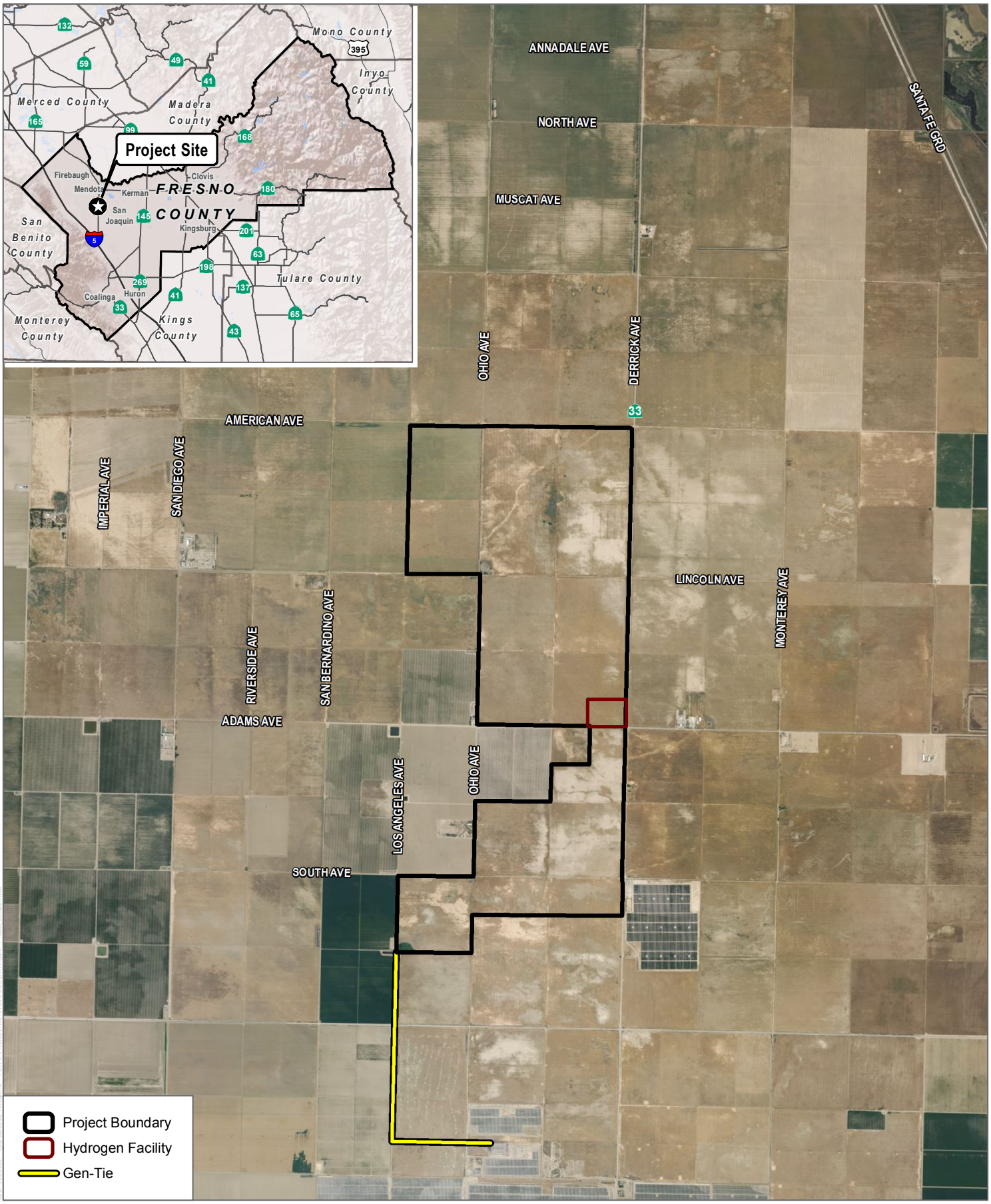


SOURCE: Bing Maps 2022

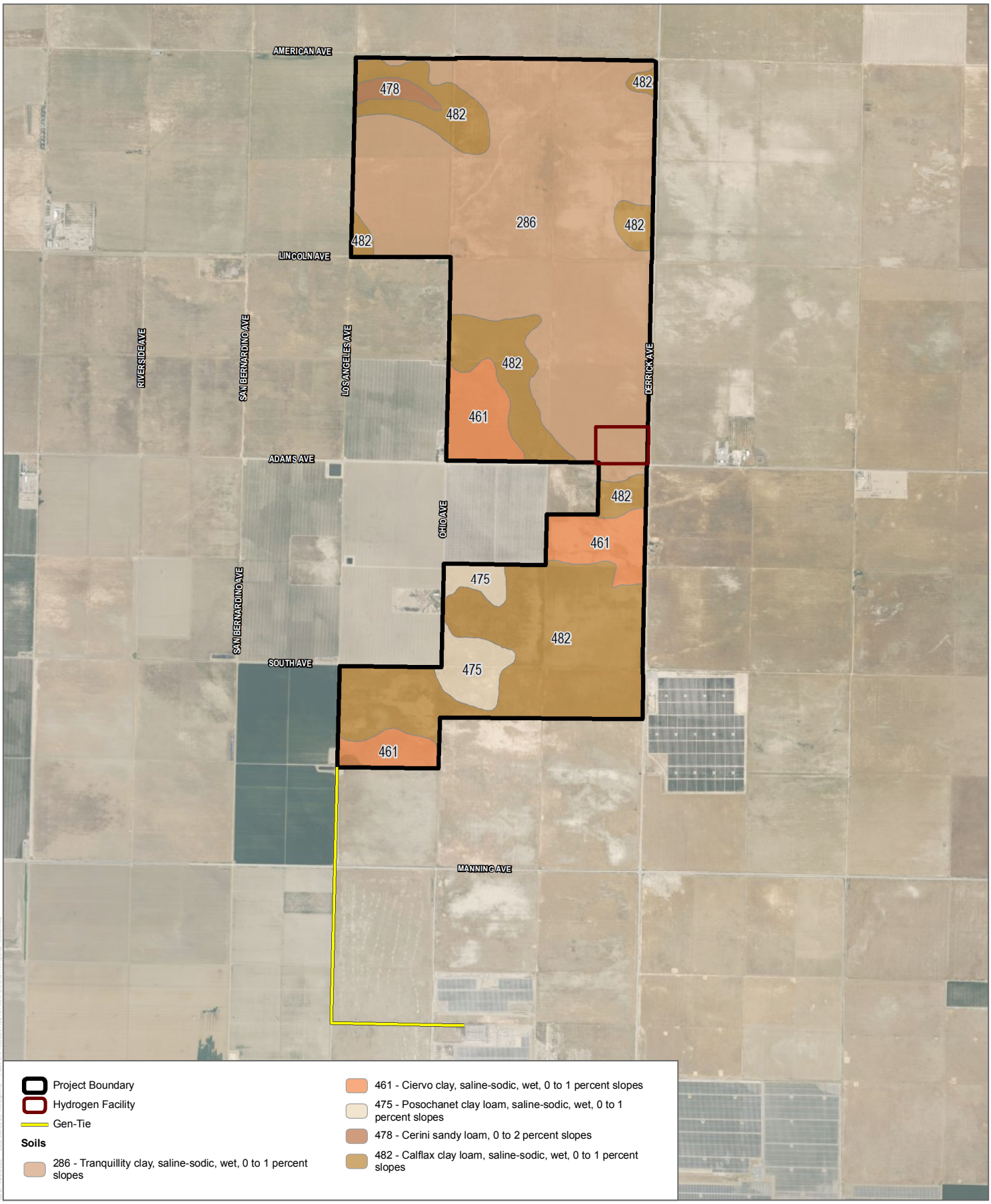
DUDEK

0 0.5 1 Miles

FIGURE 1

Project Location

Heartland Solar Project



SOURCE: Bing Maps 2022; USDA 2008

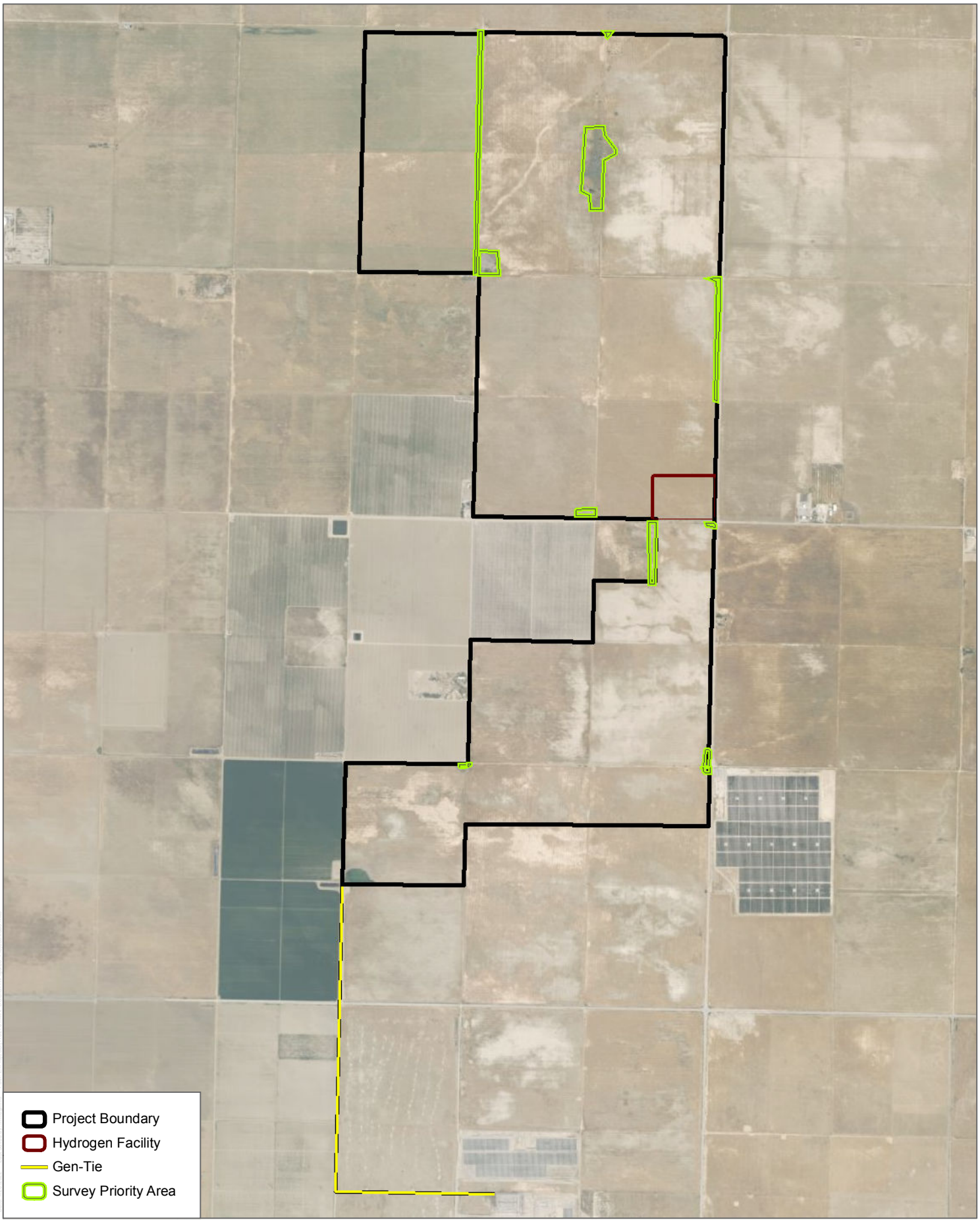
DUDEK

0 1,650 3,300 Feet

FIGURE 2

Mapped Soil Types

Heartland Solar Project



SOURCE: Bing Maps 2022

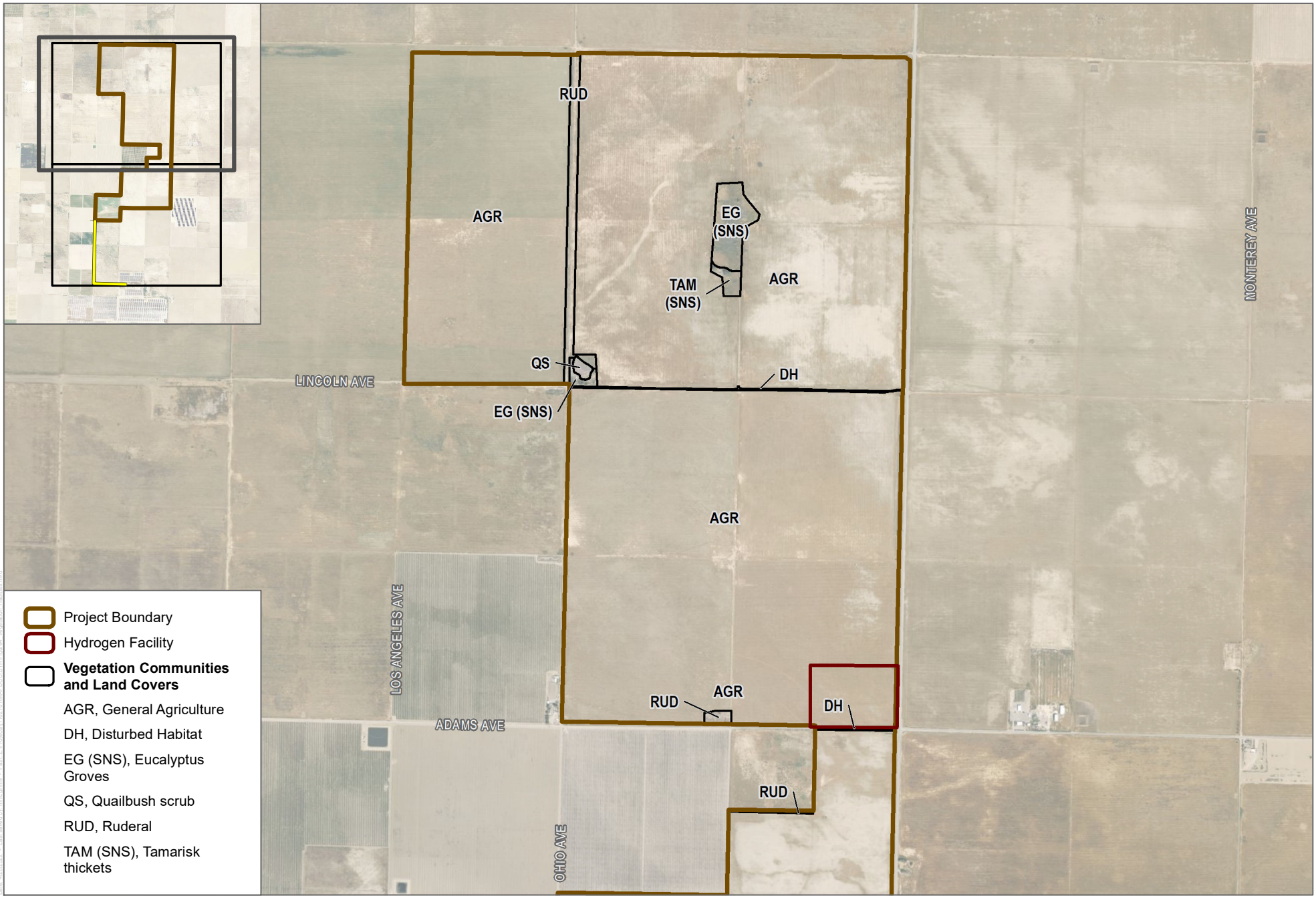
DUDEK

0 0.25 0.5 Miles

FIGURE 3

Priority Survey Areas

Heartland Solar Project



SOURCE: Bing Map 2022; Fresno County 2017

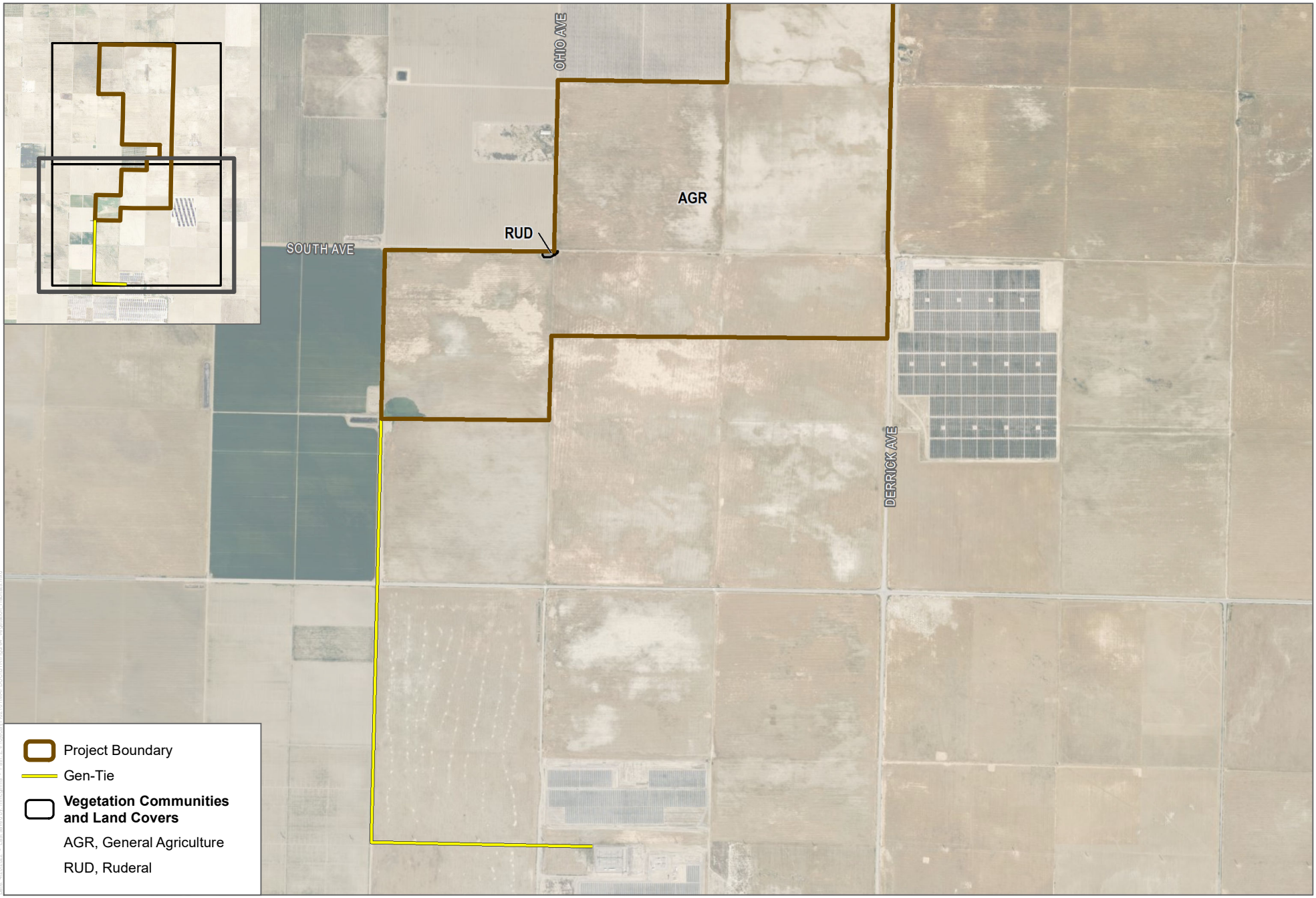
DUDEK

0 1,000 2,000 Feet

FIGURE 4A

Vegetation Communities and Land Cover Types

Heartland Solar Project



SOURCE: Bing Map 2022; Fresno County 2017

DUDEK

0 1,000 2,000 Feet

FIGURE 4B

Vegetation Communities and Land Cover Types

Heartland Solar Project

Project Boundary
Hydrogen Facility
5-Mile Radius from Project Boundary
Gen-Tie

CNDDB Species Occurrence

Plant
- 1, Munz's tidy-tips (*Layia munzii*)
- 2, Panoche pepper-grass (*Lepidium jaredii* ssp. *album*)
- 3, San Joaquin woollythreads (*Monolopia congdonii*)

Wildlife
- 4, Blunt-nosed leopard lizard (*Gambelia sila*)
- 5, Burrowing owl (*Athene cunicularia*)
- 6, Giant gartersnake (*Thamnophis gigas*)
- 7, Hoary bat (*Lasiurus cinereus*)
- 8, Longhorn fairy shrimp (*Branchinecta longiantenna*)
- 9, Mountain plover (*Charadrius montanus*)
- 10, Nelson's antelope squirrel (*Ammospermophilus nelsoni*)
- 11, San Joaquin kit fox (*Vulpes macrotis mutica*)
- 12, Swainson's hawk (*Buteo swainsoni*)
- 13, Tricolored blackbird (*Agelaius tricolor*)
- 14, Western pond turtle (*Emys marmorata*)
- 15, White-faced ibis (*Plegadis chihi*)

Natural Community
- 16, Coastal and Valley Freshwater Marsh

** No USFWS Critical Habitat/Speceis Ocurrences lie Within the 5-Mile Search Radius*

SOURCE: Bing Maps 2022; CDFW 2018; USFWS 2018

DUDEK

0 1 2 Miles

FIGURE 5

CNDDB and IPaC Species Occurrences

Heartland Solar Project

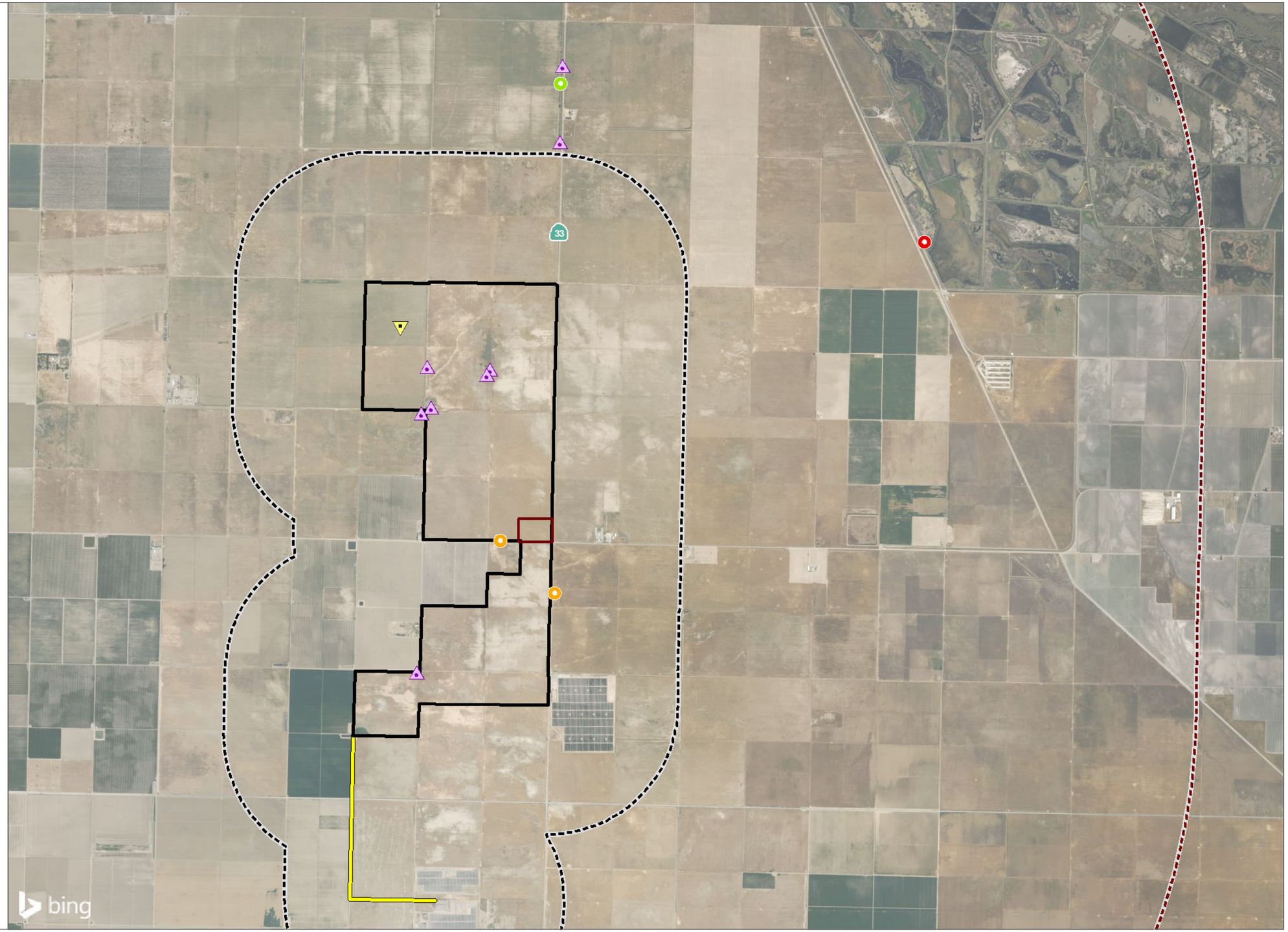
Project Boundary
Hydrogen Facility
Gen-Tie
1-Mile Radius from Project Boundary
5-Mile Radius from Project Boundary

Swainson's Hawk Nest Locations

2017 Nest (LSA)
2018 Attempted Nest
2018 Successful Nest

Other Special-Status Wildlife

Loggerhead Shrike
Northern Harrier



SOURCE: Bing Maps 2022

DUDEK

0 2,000 4,000 Feet

FIGURE 6

Special-Status Wildlife

Heartland Solar Project

Appendix A

Descriptions of Soils Occurring on the Project Site

Based on review of the U.S. Department of Agriculture-Natural Resource Conservation Service web soil survey (USDA NCRS 2018), the soils on the Project site and gen-tie alignment include Tranquility clay loam, Ciervo clay, Ciervo, wet-Ciervo complex, Posochanet clay loam, Cerini sandy loam, and Calflax clay loam. A brief summary of the soils located on the project site is provided herein based on the series descriptions provided by the USDA NRCS because biological resources can often be associated with various substrates; this is particularly true of some special-status plant species and wetland resources. These soils vary widely in depth, fertility, and permeability.

A brief description of the surface soils present within the Project site based on the USDA NRCS Official Soil Series Descriptions (OSDs) (USDA NRCS 2018) is provided below.

Tranquility Clay, Saline-Sodic, Wet, 0 to 1 Percent Slopes

The Tranquility series consists of very deep, somewhat poorly drained soils on fan skirts which formed in alluvium derived dominantly from calcareous sedimentary rock. In areas where this soil occurs, the mean annual precipitation is 8 inches and the mean annual air temperature is 63°F. These soils are used for irrigated crops such as cotton and wheat. They are also used for wildlife habitat on the west edge of Mendota Wildlife Management Area. Vegetation on wildlife management areas consists primarily of timothy, watergrass, and saltbush. This soil type is the most common throughout the project site.

Taxonomic class. Tranquility: Fine, smectitic, thermic Sodic Haploxererts

Typical Pedon

Ap1–0 to 6 inches; grayish brown (2.5Y 5/2) clay; dark grayish brown (2.5Y 4/2) moist; strong coarse subangular blocky structure, extremely hard, very firm, very sticky and very plastic; common very fine roots; few very fine tubular pores; violently effervescent, carbonates disseminated; calcium carbonate equivalent is 3 percent; electrical conductivity is 2.6 decisiemens per meter; sodium adsorption ratio is 14; moderately alkaline (pH 8.2); abrupt smooth boundary. (2 to 8 inches thick).

Ap2–6 to 16 inches; grayish brown (2.5Y 5/2) clay; dark grayish brown (2.5Y 4/2) moist; moderate medium subangular blocky structure, very hard, very firm, very sticky and very plastic; few very fine roots; few very fine tubular pores; violently effervescent, carbonates disseminated and segregated as few fine irregularly shaped concentrations; calcium carbonate equivalent is 4 percent; common fine irregularly shaped gypsum crystals; gypsum content is less than 1 percent; electrical conductivity is 8.7 decisiemens per meter; sodium adsorption ratio is 24; moderately alkaline (pH 8.3); abrupt smooth boundary. (8 to 18 inches thick).

Ciervo Series

Ciervo Clay, Saline-Sodic, Wet, 0 to 1 Percent Slopes; wet-Ciervo complex, saline sodic, 0 to 1 Percent Slopes

The Ciervo series consists of very deep, moderately well drained soils on fan skirt formed in alluvium from sedimentary rock. In areas where this soil occurs, the mean annual precipitation is about 7 inches, and the mean annual air temperature is 63°F. These soils are used principally for irrigated crops such as cotton, seed alfalfa, sugar beets, wheat, onions and tomatoes. Native vegetation is annual grasses, forbs, and saltbrush. This soil type is present in the southwestern and middle portions of the Project site.

Taxonomic class. Ciervo: Fine, smectitic, thermic Vertic Haplocambids

Typical Pedon

Ap1–0 to 7 inches; light brownish gray (2.5Y 6/2) clay, dark grayish brown (2.5Y 4/2) moist; moderate medium and coarse subangular blocky structure; hard, firm, very sticky, and very plastic; few very fine, fine and medium roots; common very fine tubular pores; strongly effervescent, carbonates disseminated, calcium carbonate equivalent is 3 percent; electrical conductivity is 1.2 decisiemens per meter; sodium adsorption ratio is 3; moderately alkaline (pH 8.1); abrupt smooth boundary. (3 to 10 inches thick)

Ap2–7 to 17 inches; light brownish gray (2.5Y 6/2) clay, dark grayish brown (2.5Y 4/2) moist; moderate coarse subangular blocky structure; very hard, firm, moderately sticky, and moderately plastic; few very fine and fine roots; common very fine tubular pores; strongly effervescent, carbonates disseminated, calcium carbonate equivalent is 3 percent; electrical conductivity is 1.2 decisiemens per meter; sodium adsorption ratio is 6; moderately alkaline (pH 8.3); abrupt smooth boundary. (5 to 15 inches thick)

Posochanet Clay Loam, Saline-Sodic, Wet, 0 to 1 Percent Slopes

The Posochanet series consists of very deep, moderately well drained soils on fan skirt formed in stratified alluvium dominantly from calcareous sedimentary rock with influence from granitic rock sources in some areas. In areas where this soil occurs, the mean annual precipitation is about 7 inches, and the mean annual air temperature is 64°F. These soils are used for irrigated crops, mainly cotton, wheat, and seed alfalfa. Native vegetation is annual grasses and forbs. This soil type is present in the northwestern portion of the Project site and along the far eastern portion of the gen-tie alignment.

Taxonomic classes. Posochanet: Fine-silty, mixed, superactive, thermic Sodic Haplocambids

Typical Pedon

Ap1–0 to 7 inches; light brownish gray (2.5Y 6/2) clay loam, dark grayish brown (2.5Y 4/2) moist; coarse strong subangular blocky structure parting to moderate subangular blocky; very hard, friable, moderately sticky and moderately plastic; common very fine and few fine roots; common very fine and fine tubular pores; slightly effervescent, carbonates disseminated; electrical conductivity is 1.6 decisiemens per meter; sodium adsorption ratio is 2; moderately alkaline (pH 7.9); abrupt smooth boundary. (6 to 10 inches thick).

Ap2–7 to 15 inches; light brownish gray (2.5Y 6/2) clay loam, dark grayish brown (2.5Y 4/2) moist; weak coarse subangular blocky structure; very hard, friable, moderately sticky and moderately plastic; few very fine, fine and medium roots; common very fine and fine tubular pores; slightly effervescent, carbonates disseminated; electrical conductivity is 3.6 decisiemens per meter; sodium adsorption ratio is 9; moderately alkaline (pH 8.0); clear smooth boundary. (7 to 10 inches thick).

Cerini Sandy Loam, 0 to 1 Percent Slopes

The Cerini series consists of very deep, well drained soils on fan skirt formed in alluvium dominantly from sedimentary rock. In areas where this soil occurs, the mean annual precipitation is about 7 inches, and the mean annual air temperature is 64°F. These soils are used for irrigated crops of wheat, onion, garlic, tomatoes and cotton. Native vegetation is annual grasses and forbs. This soil type is present in the western portion of the Project site.

Taxonomic classes. Cerini: Fine-loamy, mixed, superactive, thermic Fluventic Haplocambids

Typical Pedon

Ap–0 to 5 inches; light brownish gray (2.5Y 6/2) clay loam, dark grayish brown (2.5Y 4/2) moist; moderate medium subangular blocky structure; very hard, firm, slightly sticky and moderately plastic; common very fine and few fine roots; common very fine tubular and interstitial pores; slightly effervescent, carbonates disseminated; slightly alkaline (pH 7.7); abrupt smooth boundary. (3 to 10 inches thick)

Bw1--5 to 16 inches; light brownish gray (2.5Y 6/2) clay loam, dark grayish brown (2.5Y 4/2) moist; moderate coarse prismatic and moderate medium subangular structure; very hard, firm, moderately sticky and moderately plastic; common very fine and few fine roots; common very fine tubular and interstitial pores; slightly effervescent, carbonates disseminated; moderately alkaline (pH 7.9); abrupt smooth boundary. (6 to 15 inches thick)

Calfax Clay Loam, Saline-Sodic, Wet, 0 to 1 Percent Slopes

The Calfax series consists of very deep, moderately well drained soils on fan skirt formed in alluvium from calcareous sedimentary rock. In areas where this soil occurs, the mean annual precipitation is about 7 inches, and the mean annual air temperature is 63°F. These soils are used principally for crops such as cotton, seed alfalfa, sugar beets, wheat, and safflower. Native vegetation is annual grasses, forbs, and saltbrush. This soil type is present in the northwestern portion of the Project site and along the majority of the gen-tie alignment.

Taxonomic class. Calflax: Fine-loamy, mixed, superactive, thermic Sodic Haplocambids

Typical Pedon

Ap–0 to 8 inches; light yellowish brown (2.5Y 6/4) clay loam, dark grayish brown (2.5Y 4/2) moist; strong coarse subangular blocky structure parting to strong medium subangular blocky; hard, very friable, moderately sticky and moderately plastic; few fine and common medium and fine roots; many very fine tubular and interstitial pores; slightly effervescent, carbonates disseminated; electrical conductivity is 3.6 decisiemens per meter; sodium adsorption ratio is 4; slightly alkaline (pH 7.4); abrupt smooth boundary. (6 to 10 inches thick).

Bw--8 to 26 inches; light olive brown (2.5Y 5/4) clay loam, olive brown (2.5Y 4/4) moist; moderate coarse prismatic and moderate medium subangular blocky structure; hard, friable, moderately sticky and moderately plastic; common very fine roots; many very fine tubular and interstitial pores; slightly effervescent, carbonates disseminated; electrical conductivity is 2.8 decisiemens per meter; sodium adsorption ratio is 5; slightly alkaline (pH 7.4); clear smooth boundary. (16 to 20 inches thick).

Appendix B
List of Plant Species Observed

Dicots

AMARANTHACEAE—AMARANTH FAMILY

Amaranthus blitoides—mat amaranth

APOCYNACEAE—DOGBANE FAMILY

Asclepias fascicularis—Mexican whorled milkweed

ASTERACEAE—SUNFLOWER FAMILY

* *Acroptilon repens*—hardheads
Ambrosia acanthicarpa—flatspine bur ragweed
* *Erigeron bonariensis*—asthmaweed
Helianthus annuus—common sunflower
* *Lactuca serriola*—prickly lettuce
Laennecia coulteri—Coulter's horseweed
* *Senecio vulgaris*—old-man-in-the-Spring
* *Sonchus asper*—spiny sowthistle
* *Sonchus oleraceus*—common sowthistle

BORAGINACEAE—BORAGE FAMILY

Amsinckia menziesii—Menzies' fiddleneck
Heliotropium curassavicum—salt heliotrope

BRASSICACEAE—MUSTARD FAMILY

* *Brassica nigra*—black mustard
* *Capsella bursa-pastoris*—shepherd's purse
* *Hirschfeldia incana*—shortpod mustard
* *Sisymbrium irio*—London rocket

CHENOPODIACEAE—GOOSEFOOT FAMILY

Atriplex lentiformis—quailbush
* *Atriplex rosea*—tumbling saltweed
* *Atriplex semibaccata*—Australian saltbush
* *Atriplex suberecta*—peregrine saltbush
* *Bassia hyssopifolia*—fivehorn smotherweed
* *Chenopodium album*—lambsquarters
* *Chenopodium murale*—nettleleaf goosefoot
* *Salsola tragus*—prickly Russian thistle

CONVOLVULACEAE—MORNING-GLORY FAMILY

* *Convolvulus arvensis*—field bindweed
  Cressa truxillensis—alkali weed

FABACEAE—LEGUME FAMILY

* *Melilotus indicus*—annual yellow sweetclover

FRANKENIACEAE—FRANKENIA FAMILY

Frankenia salina—alkali heath

GERANIACEAE—GERANIUM FAMILY

* *Erodium cicutarium*—redstem stork's bill

MALVACEAE—MALLOW FAMILY

* *Malva parviflora*—cheeseweed mallow
  Malvella leprosa—alkali mallow

MARTYNIACEAE—UNICORN-PLANT FAMILY

* *Proboscidea lutea*—yellow unicorn-plant

MYRTACEAE—MYRTLE FAMILY

* *Eucalyptus camaldulensis*—river redgum
* *Eucalyptus citriodora*—lemonscented gum

POLYGONACEAE—BUCKWHEAT FAMILY

* *Polygonum argyrocoleon*—silversheath knotweed
* *Rumex crispus*—curly dock
* *Rumex dentatus*—toothed dock

SOLANACEAE—NIGHTSHADE FAMILY

Datura wrightii—sacred thorn-apple
* *Nicotiana glauca*—tree tobacco

TAMARICACEAE—TAMARISK FAMILY

* *Tamarix aphylla*—Athel tamarisk
* *Tamarix ramosissima*—tamarisk

ZYGOPHYLLACEAE—CALTROP FAMILY

* *Tribulus terrestris*—puncturevine

Monocots

POACEAE—GRASS FAMILY

* *Avena barbata*—slender oat
* *Bromus diandrus*—ripgut brome
* *Bromus madritensis*—compact brome
* *Crypsis schoenoides*—swamp pricklegrass
* *Cynodon dactylon*—Bermudagrass
  Distichlis spicata—salt grass
* *Festuca perennis*—perennial rye grass
* *Hordeum murinum*—mouse barley
* *Phalaris paradoxa*—hood canarygrass
* *Triticum aestivum*—common wheat

* signifies introduced (non-native) species

Appendix C
List of Wildlife Species Observed

Birds

Blackbirds, Orioles and Allies

ICTERIDAE—BLACKBIRDS

Agelaius phoeniceus—red-winged blackbird
Euphagus cyanocephalus—Brewer's blackbird
Icterus bullockii—Bullock's oriole
Sturnella neglecta—western meadowlark
* *Molothrus ater*—brown-headed cowbird

Emberizines

EMBERIZIDAE—EMBERIZIDS

Passerculus sandwichensis—savannah sparrow
Zonotrichia leucophrys—white-crowned sparrow

Falcons

FALCONIDAE—CARACARAS AND FALCONS

Falco sparverius—American kestrel

Finches

FRINGILLIDAE—FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus—house finch

Flycatchers

TYRANNIDAE—TYRANT FLYCATCHERS

Tyrannus verticalis—western kingbird

Hawks

ACCIPITRIDAE—HAWKS, KITES, EAGLES, AND ALLIES

Buteo jamaicensis—red-tailed hawk
Buteo swainsoni—Swainson's hawk
Circus cyaneus—northern harrier

Jays, Magpies and Crows

CORVIDAE—CROWS AND JAYS

Corvus brachyrhynchos—American crow

Corvus corax—common raven

Kinglets

REGULIDAE—KINGLETS

Regulus calendula—ruby-crowned kinglet

Larks

ALAUDIDAE—LARKS

Eremophila alpestris—horned lark

Mockingbirds and Thrashers

MIMIDAE—MOCKINGBIRDS AND THRASHERS

Mimus polyglottos—northern mockingbird

New World Vultures

CATHARTIDAE—CARDINALS AND ALLIES

Cathartes aura—turkey vulture

Old World Sparrows

PASSERIDAE—OLD WORLD SPARROWS

* *Passer domesticus*—house sparrow

Owls

TYTONIDAE—BARN OWLS

Tyto alba—barn owl

STRIGIDAE—TYPICAL OWLS

Bubo virginianus—great horned owl

Pigeons and Doves

COLUMBIDAE—PIGEONS AND DOVES

Zenaida macroura—mourning dove

* *Streptopelia decaocto*—Eurasian collared-dove

Shorebirds

CHARADRIIDAE—LAPWINGS AND PLOVERS

Charadrius vociferus—killdeer

Shrikes

LANIIDAE—SHRIKES

Lanius ludovicianus—loggerhead shrike

Starlings and Allies

STURNIDAE—STARLINGS

* *Sturnus vulgaris*—European starling

Swallows

HIRUNDINIDAE—SWALLOWS

Hirundo rustica—barn swallow

Mammals

Canids

CANIDAE—WOLVES AND FOXES

Canis latrans—coyote

Hares and Rabbits

LEPORIDAE—HARES AND RABBITS

Lepus californicus — black-tailed jackrabbit

Sylvilagus audubonii—desert cottontail

Reptiles

Snakes

COLUBRIDAE—COLUBRID SNAKES

Pituophis catenifer—gophersnake

* Signifies introduced (non-native) species

Appendix D
Photo Documentation

Photo 1. Looking south along gen-tie.

Photo 2. Looking north along irrigation basin at east edge.

Photo 3. Looking west along Adams Avenue.

Photo 4. Looking south along HWY-33 from Adams Avenue.

Photo 5. Looking north along HWY-33 from Adams Avenue.

Photo 6. Looking west at the project site, north of Adams Ave. from HWY-33.

Photo 7. Looking northwest across the Project from HWY-33.

Photo 8. Looking east from the middle-north of site.

E4 Analysis of Impacts to Swainson's Hawk Nesting and Foraging Habitat

Heartland Solar Project

Analysis of Impacts to Swainson's Hawk Nesting and Foraging Habitat

Fresno County, California

May 2025

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APPENDIX A: Land Use Crosswalk

Acronyms and Abbreviations

AC	Alternating current
CDFW	California Department of Fish and Wildlife
CESA	California Endangered Species Act
CEQA	California Environmental Quality Act
gen-tie	generation tie line
kV	kilovolt
Project	Heartland Solar Project
PV	photovoltaic
SWHA	Swainson's hawk
Tetra Tech	Tetra Tech, Inc.
USDA	U.S. Department of Agriculture

1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) has prepared this report to present an analysis of the potential impacts of the proposed Heartland Solar Project (Project) on Swainson's hawk (SWHA; *Buteo swainsoni*). The SWHA is currently listed as threatened under the California Endangered Species Act (CESA). This report provides the Lead Agency with information necessary to make findings pursuant to the requirements of the California Environmental Quality Act (CEQA) on the local and regional SWHA nesting population.

The analysis provided in this report was undertaken to evaluate potential Project impacts to SWHA resulting from a loss of foraging habitat during the construction phase of the Project and prior to site restoration. The study design is based on an approach that has previously been used in Fresno and Kings Counties (Estep 2011, 2016; HELIX 2018, 2020; SBC 2023) to support CEQA determinations. This methodological approach combines field surveys, public and proprietary data, and a desktop spatial analysis to estimate the acreage of suitable SWHA foraging habitat required to sustain the regional population of SWHA, as well as the amount of suitable SWHA foraging habitat available. Impacts to SWHA foraging habitat are assessed at both the Project and cumulative levels to determine whether the Project would result in significant impacts to SWHA. Potential Project impacts to nesting SWHA are also discussed.

1.1 Project Location

The Project site is approximately 2,362 acres and is located in unincorporated western Fresno County, approximately 6.5 miles south of the City of Mendota and immediately west of State Route 33. The Project site is generally bound by flat, agricultural lands and other solar energy generation facilities and has an approximate elevation range of 180 to 200 feet above mean sea level. The Project site is within the Coit Ranch United States Geological Survey 7.5-minute topographic quadrangle with the Project site centroid located at approximately 36.6395°, -120.3999°.

1.2 Site History

The Project site has historically been used for dry-farmed agriculture for grain or forage crops or has remained fallowed for approximately the last 10 years. Abandoned irrigation and drainage features are present throughout the Project site but are not in use. Unimproved farm roads exist on the Project site between the Project parcels. Surrounding land uses consist of non-irrigated fields used for dry farming, grazing, or fallow rotations, orchards, and multiple solar facilities.

1.3 Project Description

1.3.1 Overview

The Project proponent proposes to construct, operate, maintain, and decommission a photovoltaic (PV) solar power-generating facility and associated infrastructure that would produce up to 300 megawatts of alternating current (AC) energy at the point of electrical grid interconnection on approximately 2,362 acres of privately owned land in western Fresno County. Power generated by the panels would be transmitted to an electrical inverter located within the array block. The inverter

would convert the direct current power from the arrays into AC power, which in turn would be stepped up to medium voltage (34.5 kilovolt [kV]) to transmit the power from the solar arrays to the proposed onsite solar facility substation. The power collected at this substation would be further stepped up to high voltage (230 kV) for transmission and interconnection to the Pacific Gas and Electric Company's 230 kV Tranquillity Switching Station, located near the northeast corner of the intersection of West Dinuba Avenue and South Ohio Avenue. The offsite portion of the generation-tie (gen-tie) line would be approximately 2 miles long.

The Project would include the construction of solar arrays, inverters, an onsite high-voltage substation and connection to the Pacific Gas and Electric Company-owned Tranquillity Switching Station via a gen-tie line, a potential onsite energy storage system, and other necessary infrastructure including an operation and maintenance building, a supervisory control and data acquisition system, a meteorological data system, buried conduit for electrical wires, overhead collector lines, on-site access roads, and security fencing. Select components of the Project description pertinent to the SWHA analysis are included below.

PV solar power-generating facilities consist of individual solar panels (modules) which are arranged in rows to form solar arrays. The arrays are combined to form larger units called solar blocks or array blocks. For large-scale utility applications, hundreds of array blocks are interconnected as part of the solar power generation facility. Each array block is served by an electrical inverter, which can be located centrally within the array block or distributed within the array footprint. The inverters convert the direct current output from the array to AC which is then conveyed to a transformer. The transformer would step up the AC voltage to deliver the power to the proposed onsite substation.

The solar arrays are linear rows of solar PV modules that would be mounted on horizontal, single axis tracker systems. The module arrays would be arranged in north-south oriented rows and drive motors would rotate the horizontally mounted solar panels from east to west to follow the sun throughout the day, leaving the soil substrate underneath the panels undisturbed during operations. The highest edge of a solar panel on a horizontal tracker would be a maximum of 18 feet above ground surface, which would be achieved during the morning and evening hours when the trackers are tilted at their maximum angle (i.e., either to the east or west, respectively).

Within an array block, typical trackers are spaced approximately 15-25 feet on center (from post to post) to accommodate maintenance personnel, reduce shading by neighboring modules at maximum tilt in the morning and evening when sun angle is low, and to accommodate design parameters that meet applicable Fresno County fire safety requirements. When trackers are horizontal, the spacing between the edges of adjacent rows of modules is approximately 12 feet; this increases to slightly more than 14 feet at maximum tilt. This geometry results in a maximum of 40 percent of the area within a typical array block consisting of solar PV panel surface and often 30 percent or less when viewed from above, and the other 60+ percent remaining visible ground surface.

1.3.2 Construction

Construction of the proposed Project would take place in two major stages. The first stage would include site preparation, grading, and preparing staging areas and on-site access routes, and the second stage would involve assembling the trackers and constructing electrical interconnection

facilities. Construction is anticipated to begin in June 2026 and would continue for up to 18 months, with the facility becoming operational in November 2028. Construction activities would take place primarily during daylight hours, approximately 6:00 a.m. to 7:00 p.m., Monday through Friday. Additional hours, including weekend work, may be necessary. Construction may require some nighttime activity for installation, service or electrical connection, inspection, and testing activities. Nighttime activities would be performed with temporary lighting and would adhere to Fresno County requirements.

Construction would include establishing access roads, installing sediment controls, installing fencing, designating staging and laydown areas, conducting vegetation removal as needed, site grading as needed, trenching or excavating for underground components, installation of posts and solar arrays, construction of inverters, installation of an electrical substation consisting of above-ground facilities mounted on concrete pads, and installation of an energy storage system. Equipment used would be standard construction equipment such as excavators, loaders, graders, scrapers, dozers, cranes, forklifts, and water trucks. Grubbing and grading would occur on the site to achieve the required surface conditions. Because the site is already mostly flat, grading would be minimal. The site's cut and fill would balance, and no importation or exportation of materials would be necessary.

1.3.3 Impact Area

The entire Project site is considered moderate suitability foraging habitat for SWHA. For purposes of this analysis, the interior of the proposed Project fence line, which will include solar array blocks, access roads, concrete equipment pads (inverters/transformers) and buildings (substation, energy storage system, and operations and maintenance building) would result in a Project site of approximately 2,362 acres. The estimated maximum of a 2,362 acre Project site is used in this analysis and assumes the worst-case scenario that the entire area would be unavailable for foraging during the construction period.

1.4 Swainson's Hawk

The SWHA was listed as a state threatened species in California on April 17, 1983. SWHAs inhabit grasslands plains, shrublands, and agricultural regions of western North America during the breeding season and inhabit similar habitat from Central Mexico to southern South America during the migration and non-breeding seasons (Bechard et al. 2010; Airola et al. 2019). In California, most populations are found ranging from the Central Valley to the Great Basin of northeastern California, with some populations in Shasta Valley, Owens Valley, and the Mojave Desert (CDFW 2024). This species nests in California between March 1 and September 15 in riparian groves, stands of trees in agricultural environments, oak savanna, juniper-sage flats, or in solitary trees within close proximity to where they forage. In the Central Valley, SWHAs nest in large native trees such as valley oak (*Quercus lobata*), cottonwood (*Populus fremonti*), walnut (*Juglans californica),* and willow (*Salix* spp.), and increasingly in nonnative trees, such as eucalyptus (*Eucalyptus* spp.) and ornamental pine trees. SWHAs have high nest fidelity (returning to the same nest each year) and will re-use or rebuild existing nests from previous years (CDFW 2016).

SWHAs are open-country hunters that require large open landscapes for foraging and prefer foraging in grasslands, pastures, and agricultural lands that support a suitable prey population. Agricultural cover types that provide suitable foraging habitat conditions include hay, grain and row crops, fallow fields, and irrigated and dryland pasture. SWHAs have become increasingly dependent on foraging in cultivated alfalfa fields and similar crops, as their natural foraging habitats are increasingly being converted into agricultural lands (CDFW 2024). Within the cultivated landscape, hay crops, particularly alfalfa, provide the highest quality because of the low vegetation structure, relatively large prey populations, and because farming operations such as periodic mowing enhance prey accessibility.

1.4.1 Use of the Project Site

SWHA nest surveys were conducted for the Project site in 2018, 2021, 2022, and 2025. During the surveys, biologists confirmed that the Project site and vicinity provided suitable foraging and nesting habitat for SWHA.

Tetra Tech conducted focused SWHA surveys in April and May of 2025 for the Project site and a 10-mile buffer to update prior survey results. The results of this section only include nests documented within the Project site and a 0.5-mile buffer. A total of three SWHA nests were documented within the 0.5-mile buffer during the 2025 surveys. One nest was within a tamarisk tree (*Tamarix* spp.) located within the bounds of the Project site, to the north of West Lincoln and south of West American Avenue and to the east of South Ohio Avenue and to the west of South Derrick Avenue. Two additional nests were located outside of the Project site but within the 0.5-mile buffer, with one immediately adjacent to the Project site near South Ohio Avenue and West Adams Avenue and the second approximately 0.3 mile south of the Project site along State Route 33.

2.0 METHODS

2.1 Regulatory Guidance

The California Department of Fish and Wildlife (CDFW) has developed regional strategies to address land use issues related to SWHA conservation pursuant to both CESA and the CEQA process. The CDFW Region 2 guidelines (CDFW 1994) are often used during CEQA review of proposed projects in the Central Valley.

The guidelines outline methods for conducting nest surveys and avoiding or minimizing impacts to active nests that may result in nest abandonment or otherwise cause injury or mortality to individual SWHA (i.e., "take"), which is regulated under CESA. The 1994 guidelines recommend that no intensive new disturbances or other project-related activities that may cause nest abandonment or forced fledging should be initiated within 0.25 mile of an active nest between March 1 and September 15. The buffer may be extended to 0.5 mile in nesting areas away from urban development, where intensive disturbances are not a normal occurrence during the nesting season. Examples of intensive disturbance cited in the guidelines include heavy equipment associated with construction, use of cranes and draglines, and rock crushing activities (CDFW 1994).

The guidelines also recommend acquisition of replacement lands (i.e., compensatory mitigation) for projects that would result in the loss of foraging habitat acreage sufficient to be considered a

significant impact to the SWHA population pursuant to CEQA definitions. The guidelines state that the determining criteria for CEQA significance is removal of any suitable foraging habitat within 10 miles of an active SWHA nest, which is defined as a nest active at any time in the previous 5 years (CDFW 1994). The recommendations contained in the guidelines do not consider the size of the affected population, the amount and quality of existing foraging habitat, or the size of the project relative to the amount of foraging habitat; however, the guidelines do allow for independent assessment of impacts and development of a conservation strategy as an alternative to the guidelines.

In order to more accurately assess the potential Project impacts to SWHAs, this study quantifies the effects of the proposed Project on the regional SWHA population by analyzing data on land use, nest distribution, and abundance, and to inform a CEQA significance determination based on a more robust biological rationale.

2.2 Methodology

2.2.1 Impacts to Swainson's Hawk Nests

Large trees that could potentially provide nesting habitats for SWHA are located within 0.5 mile of the Project site; therefore, the Project has the potential to result in direct or indirect impacts on breeding SWHAs, if nests are established prior to or during construction activities. As mentioned in Section 1.4.1, three SWHA nests were located within the 0.5 mile of the Project site during the 2025 breeding season. If these nests, or others, are in use during construction of the Project, construction activities could create disturbances to nesting SWHAs, their nests, young, or eggs through increased noise, vibration, night lighting, or human presence. Appropriate exclusion buffer distances or time of year restrictions may be warranted if SWHA nests are active during construction activities.

2.2.2 Impacts to Swainson's Hawk Foraging

The analysis included in this report builds upon methods that have been used for the analysis of impacts to SWHA foraging habitat on several other approved utility-scale solar projects in the region (Estep 2017), including similar projects in Fresno County (Estep 2011, 2016; HELIX 2018, 2020; SBC 2023). In order to provide a more robust assessment of CEQA impacts, it is necessary to extend the analysis beyond the scale of the Project site and the nearest active SWHA nest, which goes beyond the standard CDFW guidelines. The larger-scale analysis considers the availability of suitable foraging habitat, size, and distribution of the regional SWHA population, and the effect of Project development on the availability of suitable foraging habitat to the regional population.

2.2.2.1 Regional Population and Study Area

For purposes of this analysis, the Study Area and the regional SWHA population is defined as the number of active nesting territories documented within 10 miles of the Project site (Study Area; Figure 1). This area equates to approximately 265,598 acres (approximately 415 square miles).

For purposes of this analysis, an active nest is defined as a nest used during one or more of the last 5 years (i.e., since 2019), as defined in the CDFW guidelines (CDFW 1994). The 10-mile radius standard was chosen based on telemetry studies that indicate SWHAs will fly up to 10 miles from the nest to

forage (Babcock 1995; Estep 1989). As such, nesting SWHAs within 10 miles of the Project site may potentially forage on the Project site and thus be affected by the Project through loss of foraging habitat.

The gen-tie route provides limited foraging habitat for SWHAs. Impacts along the gen-tie route would include placement of power poles and would not result in any negligible loss of SWHA foraging habitat. The Project's proposed gen-tie route is encompassed within the Study Area but was not accounted for in the 10-mile buffer.

2.2.2.2 Foraging Habitat Availability

The amount, distribution, and quality of foraging habitat available to the regional population is based on the surrounding land use patterns. SWHA foraging in the Central Valley has shifted to managed cultivated lands and the availability of foraging habitat is now largely dependent on agricultural practices (Estep 1989; Woodbridge 1991; Babcock 1995).

The suitability of individual land cover types is largely a function of two factors: 1) prey abundance; and 2) prey accessibility, which is influenced by vegetation structure (Bechard 1982; Estep 2009). Suitable foraging habitat varies in quality based on agricultural management. Crop types that support large numbers of rodent prey and consistently have a low, open vegetation structure provide the highest quality habitat, while crop types that support low numbers of prey or are characterized by tall and dense vegetation provide the lowest quality foraging habitat. Foraging studies indicate that SWHA preferentially forage in alfalfa, tomato, wheat, oat, and other annually rotated crops that maintain a relatively low vegetation profile and that are harvested during the breeding season. Alfalfa has been shown to provide particularly high quality habitat due to its consistently low vegetation height and high frequency of mowing, and is used by SWHAs at a significantly higher rate relative to its availability in the landscape (Estep 1989, 2009, 2013; Swolgaard et al. 2008; Babcock 1995; Bechard 1982). Other grain crops (e.g., wheat, barley, sorghum), row crops (e.g., tomatoes, sugar beets), and irrigated pasture provide moderate quality habitat, as they are harvested during the breeding season. Crops such as corn, cotton, safflower, melons, and vegetables provide low-quality habitat (Estep 2015). Land uses historically considered unsuitable for SWHA foraging include developed land, orchards and vineyards, solar facilities, and open water (Estep 2017).

Based on the documented parameters of SWHA foraging preference, we have categorized available landscape-scale data on land use as high-, moderate-, or low-quality and as suitable or unsuitable for SWHA foraging.

2.2.2.3 Foraging Habitat Requirements

Although SWHA do not defend a territory beyond the immediate vicinity of the nest, they forage widely over a large area (Estep 2015). Data from two telemetry studies conducted in the Sacramento Valley indicate that SWHA home ranges vary from 830 acres to 21,543 acres (Estep 1989; Babcock 1995). The average home range size from Babcock's study (1995) was 9,978 acres (N=5) and from Estep's study (1989) was 6,820 acres (N=12). Smaller home ranges generally consist of high percentages of alfalfa, fallow fields, and dry pastures (Babcock 1995; Woodbridge 1991; Estep 1989). Where nests are located in the immediate vicinity of high-quality foraging habitat, home range sizes

are as low as 830 acres (Estep 2015). This study used the average home range size of 6,820 acres from Estep's 1989 study for analysis purposes because it represents a reasonable estimate of home range size and is supported by field research.

It is important to note that home range and foraging territory are not synonymous. The 6,820-acre home range is the average area that an individual SWHA will occupy during the course of the breeding season; however, within this area, foraging occurs opportunistically where conditions provide accessible prey (Estep 2015). Furthermore, this area is not defended and SWHAs often forage communally (Estep 1989). Although average home range size may not be an accurate indicator of realized foraging habitat acreage, it is not feasible to precisely quantify the foraging area used by individuals of wide-ranging, opportunistic species such as SWHAs; therefore, the average home range size is a useful baseline that can be adjusted to account for factors that affect the amount of the home range that provides the essential resource base for the SWHA nesting territory and thus determines the amount of habitat required to sustain a nesting pair (Estep 2015).

Factors that affect the amount of home range that provides the essential resource base for the SWHA nesting territory include 1) home range overlap, 2) habitat suitability, and 3) foraging outside of the Study Area. Each of these factors is described in detail below.

Home range overlap. Home ranges within a population frequently overlap, as SWHAs forage opportunistically over a shared landscape and often gather in large numbers to forage during agricultural activities that expose prey such as harvest, disking, burning, or flooding. Estep (1989) found that average overlap among home ranges within a population was 40 percent. Adjusting the average home range size downward by the average amount of overlap partially accounts for the extent to which SWHA in a population share the available foraging habitat in the region.

Habitat suitability. While SWHAs utilize a large home range, actual foraging takes place in a subset of the total home range, and most prey capture attempts are in moderate- or high-quality habitat areas (Estep 2015). Most SWHA home ranges are likely to contain some unsuitable and low-quality habitat areas that do not contribute appreciably to the resource base available in the home range. In order to account for this, the average home range can be adjusted downward to reflect only the proportion of the suitable foraging habitat in the Study Area that is moderate- or high-quality habitat (Estep 2015).

Foraging outside the Study Area. Because SWHAs utilize land up to 10 miles from the nest for foraging, some portion of the potential foraging habitat available to a nesting pair in the regional population will be outside the Study Area, unless the nest is inside the Project site boundary. Comparing only the habitat available inside the Study Area to the total habitat requirements of the regional population would substantially underestimate the amount of habitat available to the regional population. The amount of overlap between the Study Area and the potential foraging territory of a nest will decrease with distance from the Project site. This relationship can be represented in a simplified manner with Equation 1, which is a trigonometric formula for the overlap (*A*) between two circles of unit radius (radius=1):

$$A = 2cos^{-1}\left(\frac{d}{2}\right) - \frac{d}{2}\sqrt{4 - d^2}$$

where *d*=distance between the centers of the circles expressed as a proportion of the radius, and radius=1. This is a suitable approximation of the amount of a given nest's potential foraging area within the Study Area as a function of its distance from the Project site, as the Study Area is approximately a circle of radius 10 miles centered on the Project site, and the potential foraging area available to a nesting pair of SWHAs is a circle of radius 10 miles centered on the nest. The measure of overlap (*A*) for each pair of nests is used to calculate the weighted average overlap between the Study Area and the potential foraging area available to the regional population.

After applying Equation 1 to each nest location in the regional population and calculating the weighted average overlap of all nests, the total amount of foraging habitat required by the regional population can be adjusted to reflect the average proportion of all home ranges that are outside the Study Area. For this analysis, nest distances from the Project site were binned in increments of 1 mile, and the value of *d* for each bin was the mid-point of the distance increment (e.g., all nests between 2 and 3 miles from the Project site boundary were given a value of 2.5). As an example, for a nest that is between 2 and 3 miles from the center of the Project site, the quantity *d* is calculated as 2.5 miles divided by the 10-mile radius of the circle to produce a value of 0.25.

Using all of the information discussed above, the acreage of suitable foraging habitat required in the Study Area to support the regional SWHA population (*Y*) can be calculated using Equation 2:

$$Y = n \cdot 6{,}820 \cdot p \cdot q \cdot r$$

where n is the number of SWHA nesting pairs in the regional population; 6,820 is the baseline average home range size; *p* is the adjustment for average home range overlap (1-average overlap); *q* is the proportion of the suitable habitat in the Study Area that is moderate- or high-quality habitat; and *r* is the weighted average overlap between the Study Area and the potential foraging area available to the regional population. The quantity *Y* can be subtracted from the total existing acreage of suitable foraging habitat in the Study Area; a positive result would indicate that there is a surplus of foraging habitat in the Study Area; a negative result would indicate that there is a deficit of foraging habitat in the Study Area.

2.2.3 Threshold of Significance

CEQA defines the significance of an impact on the SWHA based on the following relevant thresholds of significance:

- Appendix G of the State CEQA guidelines states that a biological resource impact is considered significant (before considering offsetting mitigation measures) if the lead agency determines that project implementation would result in "substantial adverse effects, either directly or through habitat modifications, on any species identified as being a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or [U.S. Fish and Wildlife Service]"; and
- CEQA Section 15065 (Mandatory Findings of Significance) states that a biological resource impact is considered significant if the project has the potential to "substantially reduce the number or restrict the range of an endangered, rare or threatened species".

Both of these thresholds are understood to mean something other than "take" of a single member of a species.

2.2.4 Impacts to SWHA Nests

Any impact from Project activities that results in abandonment or forced fledging of active nests, or otherwise results in take, as defined by CESA, of individual SWHAs would be considered a significant impact under CEQA.

2.2.5 Impacts to SWHA Foraging

Based on the above-referenced definitions, the Project could be considered to have a potentially significant impact to SWHA if it resulted in a reduction of available foraging habitat to below the amount required to sustain the regional population. If the Project would not result in such a deficit of suitable foraging habitat in the Study Area, the Project's impact would be considered less than significant under CEQA.

Because SWHA home ranges are different each year due to seasonal and annual changes in the crop matrix, it is difficult to predict or model the extent of the area likely to be used by a given pair of SWHAs over a period of years (Estep 2015). In addition, although the method used to estimate the acreage of available and required foraging habitat in the Study Area represents a robust and scientifically defensible analysis, it is necessarily dependent on a number of generalizations and assumptions. Therefore, the estimates in the study are only best approximations. In order to account for variation in the estimates due to interannual variation in the regional population caused by mortality and recruitment, allow for resilience in the population to environmental factors outside the scope of this analysis, and to account for other potential sources of error, the CEQA significance threshold should be set substantially higher than the minimum amount of foraging habitat required in the Study Area to sustain the regional population. For this analysis, the CEQA significance threshold was conservatively set at 70 percent of the existing surplus habitat. If the Project would result in the surplus of suitable foraging habitat in the Study Area being reduced to less than 70 percent of the existing surplus, the Project would be considered to have a significant impact on the regional population of SWHA under CEQA. This 70 percent threshold has been established by Estep as being adequate to provide a buffer of foraging habitat above the minimum number of acres needed (Estep 2015) and has been accepted by numerous CEQA lead agencies.

2.3 Data Acquisition and Processing

Data used in the analysis came from publicly available datasets, the results of other SWHA nest surveys conducted in the Project region, and data obtained during surveys performed for the Project in 2025.

2.3.1 Land Use Data

Land use data were taken from the 2023 U.S. Department of Agriculture (USDA) Crop Layer (USDA 2023). The data were downloaded on October 24, 2024. The data set provides land cover data at a resolution of 30 meters by 30 meters for the entire U.S. The data were clipped to the Study Area

boundary, and land cover types were characterized as suitable or unsuitable for SWHA foraging. Land cover data were adjusted for existing solar projects that were classified as their former agricultural use in the USDA data set, which resulted in a minor increase in the acreage of unsuitable foraging habitat as compared to what would be calculated only using the USDA Crop Layer data. Once all of the land in the Study Area was assigned as suitable or unsuitable for SWHA foraging, the suitable land cover types were then further classified as high-, moderate-, or low-quality foraging habitat. The habitat was classified according to a crosswalk derived from previous studies (Appendix A; Estep 2017, 2015; HELIX 2018, 2020; SBC 2023).

2.3.2 Swainson's Hawk Nest Data Desktop Review

Prior to initiating ground surveys, a desktop review was conducted to compile spatial data on all previously documented SWHA nests in the Study Area using publicly available data from the Fresno County Environmental Impact Reports that overlapped with the Study Area (County of Fresno 2024a). Previously documented SWHA nest locations in the Study Area were obtained from the following sources:

- A comprehensive ground survey performed in 2011 for SWHA nesting pairs within a 10-mile radius of the Tranquillity Solar project, located approximately 2 miles south of the Project (Estep 2011);
- A comprehensive ground survey of SWHA nests in the central San Joaquin Valley that included the Project site (Estep and Dinsdale 2012);
- A comprehensive ground survey performed in 2016 for SWHA nesting pairs within a 10-mile radius of the Scarlet Solar project, located approximately 1.5 miles southeast of the Project (Estep 2016);
- A reconnaissance ground survey performed in 2020 for SWHA nests within a 10-mile radius of the Luna Valley Solar project, located immediately south of the Project (HELIX 2020);
- A comprehensive ground survey performed in 2023 for SWHA nests within a 10-mile radius of the Darden Clean Energy project that includes some overlap within the Study Area (SBC 2023); and
- California Natural Diversity Database records.

The exact number of SWHA nest territories previously documented within the Study Area is impossible to determine as it is derived from a compilation of data spanning several years and is likely to contain duplicative nest accounts. Some pairs would be expected to have moved nest territories over their life span due to competition or natural causes such as high winds or branch or trunk failure causing pairs to relocate, potentially resulting in multiple nests for each pair over the span of the various studies. Similarly, it would be expected that some individuals would have perished while other new individuals would have arrived over the course of the various studies and new nests may have been constructed. As such, Tetra Tech used the previous nest observations to aid in a comprehensive ground survey to assess the presence of previously reported nests and to identify new nests within the Study Area.

2.3.3 Swainson's Hawk Nest Surveys

The Study Area, including the Project site and 10-mile radius, was surveyed from April 7-10, 2025, and May 5-6, 2025, to identify SWHA nesting territories. During the surveys, each biologist was equipped

with a tablet with the ArcGIS Field Maps application depicting the Project site and 10-mile buffer, as well as all previously documented SWHA nests. During the surveys, biologists used publicly accessible roadways in the Study Area to survey for nesting SWHA using a combination of windshield and pedestrian surveys and noted nests or nesting activity. Each potentially suitable nest tree and previously documented nest location was surveyed for raptor activity. Binoculars and spotting scopes were used to aid in the identification of bird species and/or potential nest locations. All identified nests, including those of other raptor species, were recorded in ArcGIS Field Maps. When potential stick nests were identified during the April survey but no raptor activity could be confirmed, the nest was revisited in May to document nesting activity.

2.3.4 Cumulative Projects

Data on other existing, planned, and reasonably foreseeable solar projects (cumulative projects) in the Study Area were obtained by reviewing the Fresno County Division of Public Works and Planning's Photovoltaic Facilities Processing webpage (County of Fresno 2024c). Cumulative projects were classified as constructed or proposed for purposes of analysis.

3.0 RESULTS

3.1 Land Use Data

A total of 30 SWHA nests were documented within the Study Area which may potentially be directly or indirectly affected by construction of the Project (Figure 1). The distribution of SWHA nest territories is fairly even throughout the Study Area, although there is a noticeable concentration of SWHA nests in the northeastern and eastern section of the Study Area within the Fresno Slough and Mendota Wildlife Area (Figure 1).

A total of 140,347 acres (52.84 percent) of suitable foraging habitat were identified in the Study Area; the remaining 125,251 acres (47.16 percent) contained unsuitable land uses for foraging (Figure 2). The majority of the suitable foraging habitat is in the central portion of the Study Area. Of the suitable foraging habitat in the Study Area, 4,276 acres (1.61 percent) were high-quality, 122,396 acres (46.08 percent) were moderate-quality, and 13,675 acres (5.16 percent) were low-quality (Figure 3). Overall, 90.3 percent of the suitable foraging habitat was high- or moderate-quality habitat. The foraging habitat within the Study Area is summarized in Table 1.

Table 1. Swainson's Hawk Foraging Habitat Within the Study Area

Foraging Habitat Type	Area (acres)	Percent of Total
Suitable Habitat	140,347	52.84
High Quality Habitat	4,276	1.61
Moderate Quality Habitat	122,396	46.08
Low Quality Habitat	13,675	5.15
Unsuitable Habitat	125,251	47.16
Total	**265,598**	**100.0**

3.2 Swainson's Hawk Nest Data

The regional SWHA population that would potentially be affected by the Project includes 30 nesting pairs in a 265,598-acre (approximately 415 square miles) Study Area (Figure 1), which equates to a density of 0.072 nesting territory per square mile. Of the 30 SWHA nests identified, 3 nests (10.0 percent) were within a 1-mile radius of the Project site, and 21 nests (70 percent) were located over three miles from the Project site (Figure 4). The approximate overlap of the potential foraging area and the Study Area was calculated for each nest using Equation 1. The weighted average overlap of all nests (*r*) within the Study Area was 0.66 (Table 2), meaning that roughly 66 percent of the foraging habitat required for the regional population is within the Study Area (Table 2).

Table 2. Proportion of Potential Foraging Area Inside the Study Area

Distance Increment (miles)	Number of Nests	Proportion of Overlap
0-1	3	0.968
1-2	2	0.905
2-3	4	0.841
3-4	1	0.778
4-5	4	0.716
5-6	1	0.654
6-7	3	0.594
7-8	2	0.534
8-9	7	0.476
9-10	3	0.419
Weighted Average		**0.66**

Using the results discussed above, the total acreage of foraging habitat required in the Study Area to sustain the regional population of SWHA was calculated using Equation 2:

$$Y = 30 \cdot 6{,}820 \cdot 0.6 \cdot 0.903 \cdot 0.66 = 73{,}163$$

Where 30 is the size of the regional population (*n*); 6,820 is the baseline average home range size; 0.6 is the correction for 40 percent overlap among home ranges (*p*); 0.903 is the proportion of the suitable foraging habitat in the Study Area that is moderate or high quality (*q*); and 0.66 is the weighted average proportion of potential foraging area for all nest territories in the regional population that is inside the Study Area (*r*).

The total amount of suitable foraging habitat in the Study Area required by the regional SWHA population (30 pairs) was calculated to be 73,163 acres. The total amount of suitable foraging habitat in the Study Area is 140,347 acres. The Study Area contains approximately 140,347 acres, which is the minimum required for this population plus an additional 67,184 acres of surplus suitable foraging habitat. For purposes of this study, the CEQA significance threshold is 70 percent of the existing surplus, or 47,029 acres (Table 3).

Table 3. Project Impacts and CEQA Significant Threshold

	Area Existing Within Study Area (Acres)	Project Impacts (2,362 acre)	Percent of Existing	Cumulative Impacts[1] (5,036 acre)	Percent of Existing
Foraging Habitat Required	73,163	--	--	--	--
Suitable Foraging Habitat	140,347	137,985	98.3	132,949	94.7
Surplus	67,184	64,822	96.5	59,786	89.0
CEQA Significance Threshold	47,029	--	--	--	--
Less than Significant Impact[2]/Surplus Remaining After Project	20,155	17,793	88.2	12,757	63.3

[1] Acreage of all existing, planned, or reasonably foreseeable solar projects within the Study Area that provide suitable foraging habitat for Swainson's Hawk (see discussion in *Cumulative Impacts*)
[2] Impact acreage that would be below the CEQA threshold significance, or 67,184 – 47,029 = 20,155 or 67,184 x 0.3 = 20,155

3.3 Impacts to Foraging Habitat

3.3.1 Project-Level Impacts

The proposed Project would result in conversion of 2,362 acres of undeveloped lands in the Study Area into a solar PV facility. For purposes of this analysis, solar facilities are considered a land use unsuitable for SWHA foraging. Removal of 2,362 acres of habitat would reduce the surplus SWHA foraging habitat in the Study Area to 67,184 acres, which is 96.5 percent of the existing surplus, and well above the 70 percent CEQA significance threshold (Table 3). The Project impact to the regional SWHA population through foraging habitat loss would be less than significant, and no compensatory mitigation for impacts to foraging habitat would be required.

3.3.2 Cumulative Impacts

In addition to a Project-specific assessment, CEQA also requires that a cumulative assessment be conducted to determine whether the Project's incremental impacts are cumulatively considerable when added to other past, present, and reasonably foreseeable future actions. For purposes of this assessment, the cumulative impact is defined as all existing planned and proposed solar energy projects within the roughly 10-mile radius Study Area (Figure 5). It does not include other types of projects or other land use changes that would potentially remove or modify SWHA. When considering total project acreage, solar energy projects comprise the majority of planned and proposed non-agricultural projects in the Study Area that could impact SWHA foraging habitat.

Including the proposed Project, there are approximately 13 existing, planned, or reasonably foreseeable solar projects in the Study Area (Figure 5). It is worth noting that solar projects in the Study Area that have already been constructed (i.e., existing) were classified as developed lands during the quantification of suitable or unsuitable SWHA foraging habitat and therefore, existing solar projects are already depicted as unsuitable habitat and are not included in the cumulative analysis (Figures 2 and 6). The total area of solar projects that are proposed (i.e., not constructed) is 5,311 acres, of which 5,036 acres are considered suitable foraging habitat and 275 acres are considered

unsuitable foraging habitat (Figure 6). Therefore, an additional 5,036 acres of suitable SWHA foraging habitat would be impacted by cumulative solar projects evaluated in this analysis (Figure 6; Table 3).

When considering development of the cumulative projects, the surplus SWHA foraging habitat in the Study Area would be reduced to 59,786 acres (conservatively assuming 100 percent impact for these projects), which is 89.0 percent of the existing surplus and above the 70 percent CEQA significance threshold (Table 3). Therefore, the Project would contribute to a less than significant cumulative impact to the regional population of SWHA through foraging habitat loss, and no compensatory mitigation would be required for cumulative impacts.

4.0 DISCUSSION/CONCLUSION

The analysis performed for this study is based on previously accepted methods (Estep 2011, 2015 2017; HELIX 2018, 2020; SBC 2023) and makes use of the best available data. The analysis considers impacts to SWHA at a more biologically realistic scale than the method employed in the 1994 CDFW guidelines while remaining logistically feasible as well as generalizable to a wide range of projects and locations. The proposed Project would not result in a significant reduction (based on the significance threshold and assessment methods used here) of available SWHA foraging habitat at either the Project or cumulative level. Per the results of this analysis, no compensatory mitigation should be required as per CEQA guidance.

The proposed Project would not result in a significant impact to the regional population of SWHA through loss of suitable foraging habitat at the Project level, nor would it contribute to a significant cumulative impact in concert with other planned or reasonably foreseeable solar projects. After Project development, the amount of surplus suitable foraging habitat for SWHA in the Study Area would remain greater than 70 percent of the existing surplus at both the Project and cumulative level, and therefore provide sufficient surplus foraging habitat to allow for population growth and resiliency to disturbance, as well as to changes to the foraging landscape through changes in agricultural land uses.

The loss of 2,362 acres of undeveloped agricultural land will not affect the distribution or abundance of nesting SWHAs in the Study Area. Because it represents only 1.7 percent of the available foraging habitat within the Study Area, its conversion is negligible relative to availability, and particularly with regard to the relatively small number of SWHAs that nest in the Study Area. The loss of 2,362 acres of undeveloped agricultural land would not result in a significant reduction (based on the significance threshold and assessment methods used here) of available SWHA foraging habitat at either the project or cumulative level. Per the results of this analysis, no mitigation should be required per CEQA guidance.

5.0 REFERENCES

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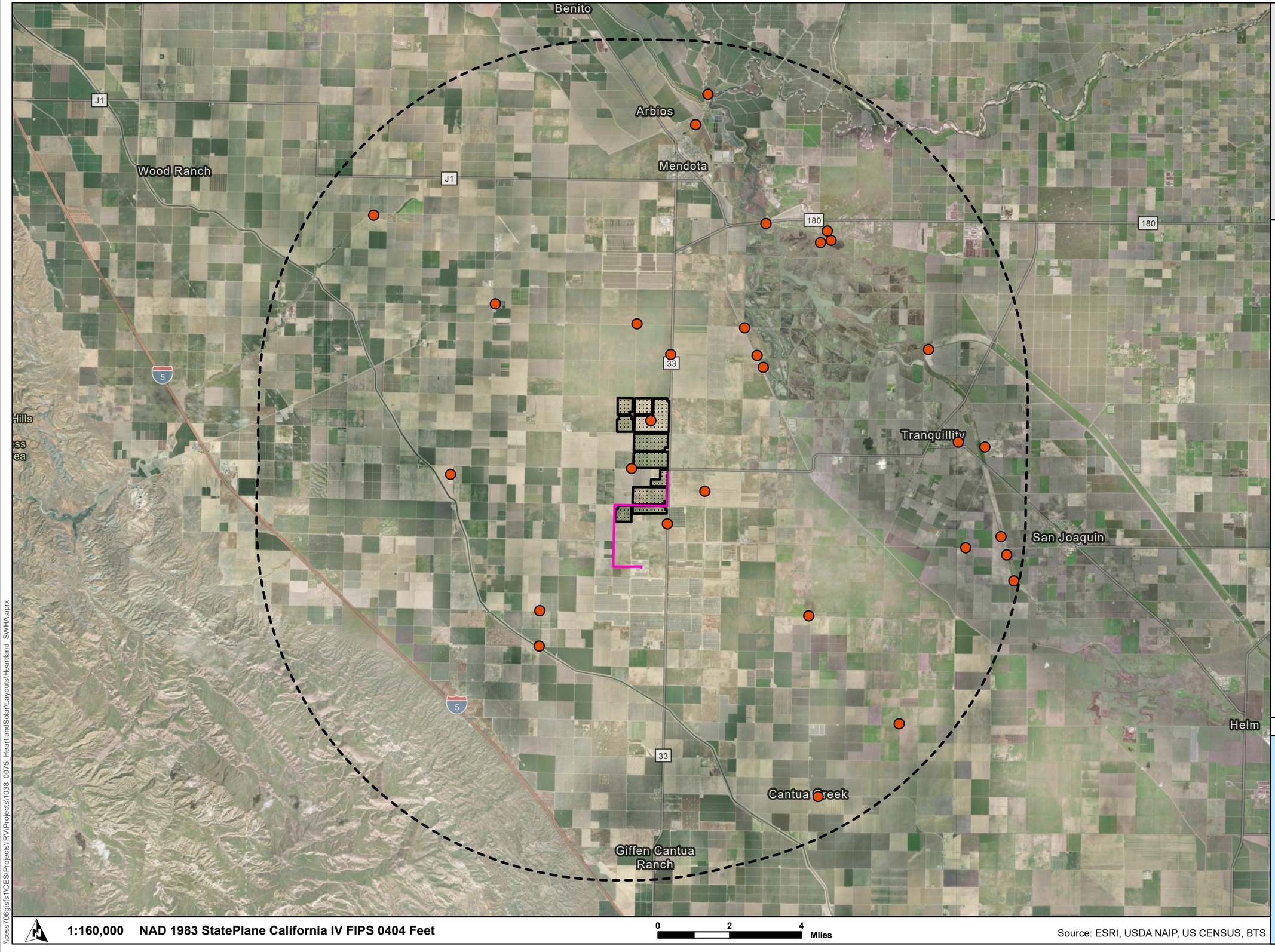
FIGURES

Clearway Energy
Heartland Solar Project

Figure 1
Swainson's Hawk
Nest Locations

Fresno County, CA



SWHA Nest Locations

Buffer (10-mile)

Proposed Features

Gen-tie Line

Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

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Clearway Energy
Heartland Solar Project

Figure 2
Swainson's Hawk
Suitable Foraging Habitat

Fresno County, CA

Buffer (10-mile)

Proposed Features

Gen-tie Line

Project Site

Foraging Habitat

Suitable (140,346 acres)

Unsuitable (125,251 acres)

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

Benito
Cromir
Arbios
Mendota
Wood Ranch
J1
180
33
5
Tranquillity
San Joaquin
Helm
Cantua Creek
Giffen Cantua Ranch
Hills

1:160,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 5 10 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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Clearway Energy
Heartland Solar Project

Figure 3
Swainson's Hawk
Foraging Habitat Quality

Fresno County, CA

Benito
Cromir
Arbios
Mendota
Wood Ranch
Tranquillity
San Joaquin
Helm
Cantua Creek
Giffen Cantua Ranch
J1
180
33
5

Buffer (10-mile)

Proposed Features

Gen-tie Line

Project Site

Foraging Habitat Quality

High (4,276 acres)

Moderate (122,396 acres)

Low (13,675 acres)

None (125,251 acres)

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:160,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 5 10 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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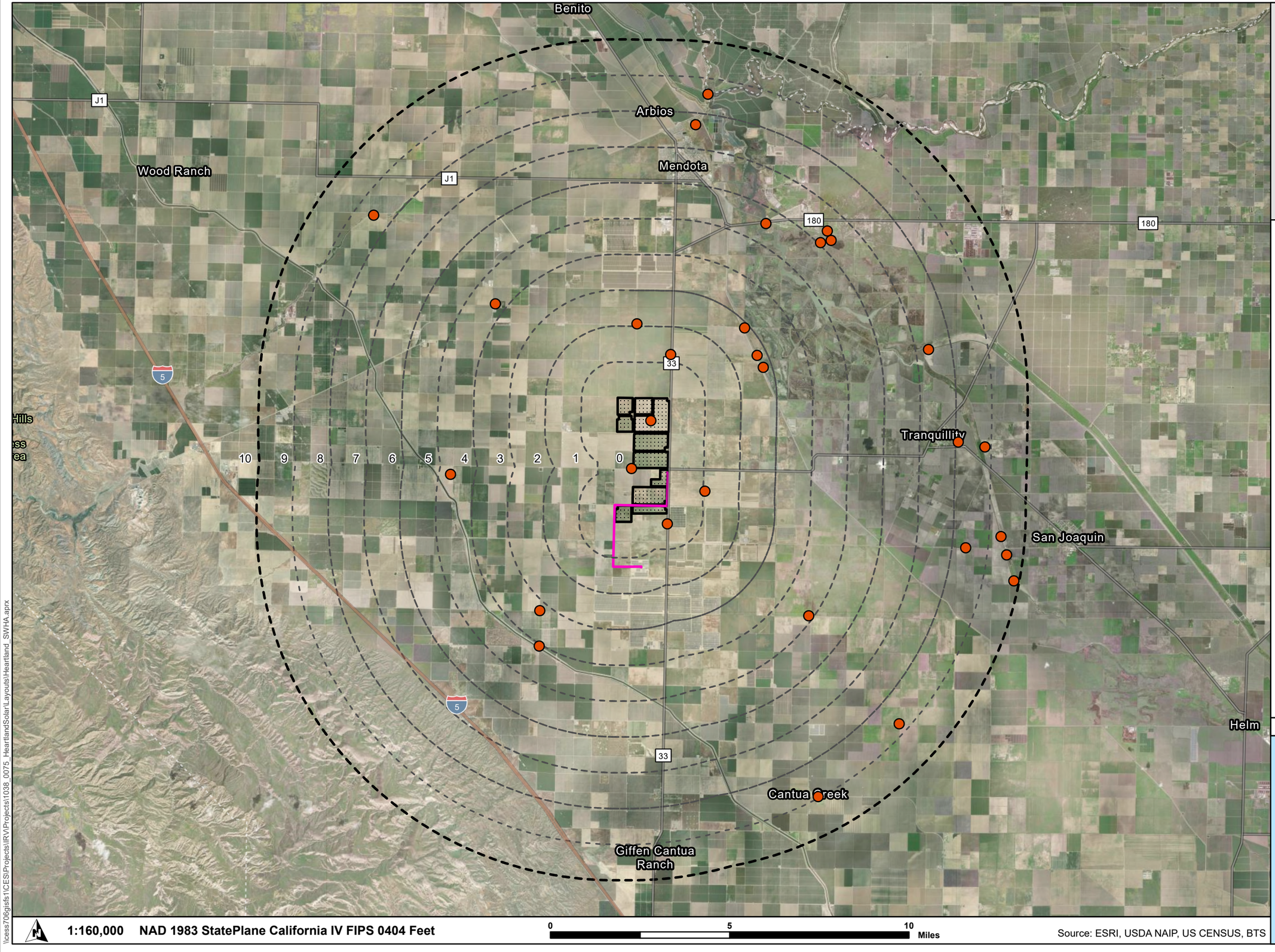
Clearway Energy
Heartland Solar Project

Figure 4
Swainson's Hawk Nest
Distance from Project Site

Fresno County, CA



SWHA Nest Locations

Miles from Project Site

Proposed Features

Gen-tie Line

Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:160,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 5 10 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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Clearway Energy
Heartland Solar Project

Figure 5
Cumulative Projects

Fresno County, CA

Buffer (10-mile)

Proposed Features

Project Site

Gen-tie Line

Cumulative Projects

- Aspiration Solar G (80 acres)
- Giffen Solar Park (158 acres)
- Little Bear (1,249 acres)
- Luna Valley (1,300 acres)
- North Start (618 acres)
- RE Adams East (191 acres)
- RE Scarlet (4,152 acres)
- RE Transquility (3,664 acres)
- Silverado Power (157 acres)
- Sonrisa Solar (2,300 acres)
- Unknown - Built (264 acres)
- Unknown - Proposed (2,354 acres)

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

Benito
Cromir
Arbios
Mendota
Wood Ranch
Tranquillity
San Joaquin
Helm
Cantua Creek
Giffen Cantua Ranch
J1
180
33
5

1:160,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 2 4 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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Clearway Energy
Heartland Solar Project

Figure 6
Cumulative Projects & Foraging Suitability

Fresno County, CA

Benito
Cromir
Arbios
Mendota
Wood Ranch
Tranquillity
San Joaquin
Helm
Cantua Creek
Giffen Cantua Ranch
Hills
J1
180
33
5

Buffer (10-mile)

Proposed Features

Project Site

Gen-tie Line

SWHA Habitat Suitability & Solar Status

Suitable - Proposed (5,036 acres)

Unsuitable - Proposed (275 acres)

Unsuitable - Constructed (11,325 acres)

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:160,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 2 4 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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APPENDIX A: LAND USE CROSSWALK

Table A-1 Land Use Crosswalk

Class Name	Land Type	Foraging Habitat	Quality
Developed	Developed/urban	No	None
Freshwater Forested/Shrubland	Riparian/wetland/open water	No	None
Riverine	Riparian/wetland/open water	No	None
Corn	Irrigated Cropland	Yes	Low
Cotton	Irrigated Cropland	Yes	Low
Sorghum	Irrigated Cropland	Yes	Moderate
Sweet Corn	Irrigated Cropland	Yes	Low
Barley	Irrigated Cropland	Yes	Moderate
Durum Wheat	Irrigated Cropland	Yes	Moderate
Spring Wheat	Irrigated Cropland	Yes	Low
Winter Wheat	Irrigated Cropland	Yes	Moderate
Rye	Irrigated Cropland	Yes	Moderate
Rice	Irrigated Cropland	No	None
Oats	Irrigated Cropland	Yes	Moderate
Safflower	Irrigated Cropland	Yes	Low
Alfalfa	Alfalfa and hay crop	Yes	High
Other Hay/Non Alfalfa	Alfalfa and hay crop	Yes	Moderate
Sugar beets	Irrigated Cropland	Yes	Moderate
Dry Beans	Irrigated Cropland	Yes	Low
Potatoes	Irrigated Cropland	Yes	Moderate
Other Crops	Irrigated Cropland	Yes	Low
Watermelons	Irrigated Cropland	Yes	Low
Onions	Irrigated Cropland	Yes	Moderate
Cucumbers	Irrigated Cropland	Yes	Low
Peas	Irrigated Cropland	Yes	Low
Tomatoes	Irrigated Cropland	Yes	Moderate
Herbs	Irrigated Cropland	Yes	Moderate
Fallow/Idle Cropland	Irrigated Cropland	Yes	Moderate
Cherries	Orchard/vineyard	No	None
Pears	Orchard/vineyard	No	None
Peaches	Orchard/vineyard	No	None
Grapes	Orchard/vineyard	No	None
Other Tree Crops	Orchard/vineyard	No	None
Citrus	Orchard/vineyard	No	None
Pecans	Orchard/vineyard	No	None
Almonds	Orchard/vineyard	No	None
Walnuts	Orchard/vineyard	No	None
Open Water	Riparian/wetland/open water	No	None
Developed/Open Space	Developed/urban	No	None
Developed/Low Intensity	Developed/urban	No	None
Developed/Med Intensity	Developed/urban	No	None

Class Name	Land Type	Foraging Habitat	Quality
Developed/High Intensity	Developed/urban	No	None
Barren	Developed/urban	No	None
Deciduous Forest	Forest/shrubland	No	None
Evergreen Forest	Forest/shrubland	No	None
Mixed Forest	Forest/shrubland	No	None
Shrubland	Natural lands	Yes	Moderate
Grassland/Pasture	irrigated pasture	Yes	Moderate
Woody Wetlands	Riparian/wetland/open water	No	None
Herbaceous Wetlands	Natural lands	Yes	Moderate
Pistachios	Orchard/vineyard	No	None
Triticale	Irrigated Cropland	Yes	Moderate
Carrots	Irrigated Cropland	Yes	Moderate
Garlic	Irrigated Cropland	Yes	Moderate
Cantaloupes	Irrigated Cropland	Yes	Low
Olives	Orchard/vineyard	No	None
Oranges	Orchard/vineyard	No	None
Honeydew Melons	Irrigated Cropland	Yes	Low
Broccoli	Irrigated Cropland	Yes	Low
Peppers	Irrigated Cropland	Yes	Low
Pomegranates	Orchard/vineyard	No	None
Nectarines	Orchard/vineyard	No	None
Plums	Orchard/vineyard	No	None
Double Crop Winter Wheat/Corn	Irrigated Cropland	Yes	Moderate
Double Crop Oats/Corn	Irrigated Cropland	Yes	Moderate
Lettuce	Irrigated Cropland	Yes	Moderate
Double Crop Winter Wheat/Sorghum	Irrigated Cropland	Yes	Moderate
Double Crop Barley/Corn	Irrigated Cropland	Yes	Moderate
Double Crop Winter Wheat/Cotton	Irrigated Cropland	Yes	Moderate
Blueberries	Orchard/vineyard	No	None
Freshwater Emergent Wetland	Natural lands	No	None
Freshwater Pond	Riparian/wetland/open water	No	None
Lake	Riparian/wetland/open water	No	None
Sod/Grass Seed	Developed/urban	No	None

E5 Burrowing Owl Survey Report

BURROWING OWL SURVEY REPORT

Heartland Solar Project

Fresno County, California

June 2025

Prepared for

Clearway Energy Group, LLC
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San Francisco, CA 94111

Prepared by

17885 Von Karman Avenue, Suite 500
Irvine, CA 92614

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Appendix A: Representative Photographs

Appendix B: List of Potential Burrows Identified during the Burrow Survey

Acronyms/Abbreviations

BUOW	burrowing owl
cm	centimeter
gen-tie	generation-tie
Project	Heartland Solar Project
Tetra Tech	Tetra Tech, Inc.

1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) has prepared this Burrowing Owl Survey Report for the proposed Heartland Solar Project (Project) in western Fresno County, California. This report describes the burrowing owl (BUOW, *Athene cunicularia*) survey methodology and results conducted for the Project during the 2024-2025 winter season and 2025 breeding season.

2.0 PROJECT DESCRIPTION AND LOCATION

The Project site is approximately 2,362 acres and is located in unincorporated western Fresno County, approximately 6.5 miles south of the city of Mendota and immediately west of State Route 33 (Figure 1). Heartland Solar 1, LLC, a wholly-owned indirect subsidiary of Clearway Energy Group, proposes to construct, operate, maintain, and decommission a photovoltaic solar energy-generating facility, onsite solar facility substation, onsite energy storage system, and associated infrastructure that would produce up to 300 megawatts. The Project site includes an approximately 5-mile-long generation-tie (gen-tie) line that would interconnect to the nearby Pacific Gas and Electric Company's Tranquillity Switching Station. Approximately 2 miles of the 5-mile-long gen-tie line would occur outside the solar site boundary (Figure 2).

The Project site is within the Coit Ranch United States Geological Survey 7.5-minute topographic quadrangle with the Project site centroid located at approximately 36.6395°, -120.3999°. The Project site has historically been used for dry-farmed agriculture for grain or forage crops, has remained fallow, or has undergone routine discing for approximately the last 10 years. Abandoned irrigation and drainage features are present throughout the Project site but are not in use. Unimproved farm roads exist on the Project site between the Project parcels. Surrounding land uses consist of non-irrigated fields used for dry farming, grazing, or fallow rotations, orchards, and multiple solar facilities.

3.0 METHODOLOGY

A focused habitat assessment and burrow survey, as well as winter season and breeding season protocol surveys, were conducted in accordance with the guidelines stated in the *Burrowing Owl Survey Protocol and Mitigation Guidelines* (The California Burrowing Owl Consortium 1993) and the *Staff Report on Burrowing Owl Mitigation* (CDFG 2012). The habitat assessment and burrow survey occurred in December 2024, the winter season protocol surveys occurred on December 11 and 12, 2024, and January 7 and 8, 2025, and the breeding season protocol surveys occurred on April 9, 2025, May 5 and 27, 2025 and June 19, 2025.

The Survey Area totals approximately 3,172 acres, which encompasses the Project fence line (i.e., disturbance limits), gen-tie line, and a 150-meter buffer.

3.1 Habitat Assessment and Burrow Survey

Prior to the habitat assessment and burrow survey, biologists reviewed the California Department of Fish and Wildlife California Natural Diversity Database (CDFW 2024) for nearby occurrences of BUOW as well as aerial and historical imagery (Google Earth 2024) of the Survey Area.

The habitat assessment and burrow survey were conducted in December 2024 by Tetra Tech biologists. As part of the habitat assessment, biologists familiar with the species and its ecology assessed the Survey Area for habitat characteristics known to be important to BUOW (i.e., vegetation structure, density, and height; signs of occupation by California ground squirrels [*Otospermophilus beecheyi*]; presence of burrows or burrow surrogates; and presence of prey such as small mammals). Biologists drove in vehicles at low speeds around the entire Project perimeter and through accessible roads through the center of the Project site to evaluate habitat and visually scan for BUOW within the Survey Area.

During the burrow survey, biologists surveyed areas of suitable habitat within the Survey Area for existing burrows and live BUOWs by walking approximate 10-meter (33-foot) transects. Areas within the 150-meter buffer were also surveyed by walking 10-meter transects where access was granted. In areas outside of the Project site, but within the 150-meter buffer, where access was not granted for (i.e., adjacent private property), the surveyors visually scanned for BUOWs with binoculars. With this method, 100 percent visual coverage of BUOW suitable habitat within the Survey Area was achieved.

During the burrow survey, it was determined whether burrows and burrow surrogates were suitable for use by BUOW and any evidence of BUOW occupation, including live BUOWs, pellets, feathers, and whitewash, was noted. In general, a burrow was considered suitable for BUOW if it was equal to or greater than 11 centimeters (cm) or 4.3 inches in diameter (height and width) and 150 cm (59 inches) in depth (Johnson et al. 2010). Burrows encountered during the burrow survey were assigned into one of the following categories and are described below: burrow with sign, existing burrow, or other.

- Burrow With Sign: A burrow or burrow surrogate where a live BUOW was observed or that shows sign of BUOW occupancy. Examples of BUOW sign may include whitewash, feathers, pellets, prey remains, or eggshell fragments.
- Existing Burrow: Burrows that were determined to be suitable for BUOW use based on the characteristics of the burrow (i.e., diameter of entrance, depth, accessibility). No live BUOW or their sign was observed at existing burrows.
- Other: Burrow surrogates that were determined to be suitable for BUOW use based on the characteristics of the surrogate (i.e., diameter of entrance, depth, accessibility). Examples of potential burrow surrogates are man-made structures such as pipes, culverts, debris piles, or other various openings that met the size criteria stated above.

Surveys were conducted during optimal weather conditions (i.e., no heavy rain or fog) to allow for the greatest visibility possible. All burrows observed during the habitat assessment and burrow survey were checked for sign of BUOW.

Burrows with sign, existing burrows, and other burrows (i.e., surrogate burrows) observed during the burrow survey were mapped using Esri ArcGIS Field Maps on a tablet or phone paired with a sub-meter accuracy Global Positioning System device.

3.2 Protocol Surveys

3.2.1 Winter Season Survey

Winter season surveys were performed on December 11 and 12, 2024, and January 7 and 8, 2025. During these surveys, all previously mapped burrows and locations where live BUOWs were encountered during the burrow survey were visited during the timeframe of 2 hours before sunset to evening civil twilight or from morning civil twilight to 10:00 AM (CDFG 2012). To the maximum extent feasible, burrows were observed using binoculars to minimize disturbance if BUOW individuals were present. Surveys were not conducted during heavy rain, high winds greater than 20 miles per hour, or dense fog. Any BUOW or BUOW sign, possible predators present, and any evidence of predation of BUOWs were noted.

3.2.2 Breeding Season Survey

Breeding season surveys were performed during the 2025 breeding season on April 9, May 5, May 27, and June 19. The same methodology for winter season surveys described above was performed during the breeding season surveys.

4.0 RESULTS

This section describes the results of the habitat assessment and burrow survey, as well as the winter season and breeding season surveys that occurred for the Project.

4.1 Habitat Assessment and Burrow Survey

During the habitat assessment, all the fields within the Project site were recently disced, removing any standing vegetation and leaving shallow furrows in the soil. When vegetation was present in the disced fields, it consisted of dense patches of non-native Russian thistle (*Salsola* sp.) and saltbush (*Atriplex* sp.), and still showed evidence of recent discing and shallow furrows in the soil. The Project site also supports two eucalyptus (*Eucalyptus* spp.) groves with remnant grassland patches composed of non-native grasses that create a dense thatch layer over the ground surface. The majority of the Project site was not suitable for use by burrowing mammals, and thus BUOW burrows, due to the routine disturbances. The Project site may still be used by foraging BUOWs.

Outside of the Project fence line (i.e., disturbance limits), but within the 150-meter survey buffer, are two drainage basins consisting of bare ground and non-native grassy and ruderal vegetation. These drainage basins are located adjacent to South Ohio Avenue between where it intersects with West American Avenue and West Lincoln Avenue, and adjacent to South Derrick Avenue between where it intersects with West Lincoln Avenue and West Adams Avenue. Evidence of ground squirrel activity was observed within these drainage basins, and multiple existing burrows that may be suitable for BUOW use were identified. In addition, multiple culverts and irrigation pipes were present within the 150-meter survey buffer that could be used by individual BUOWs. These areas were considered suitable for BUOW use at the time of the habitat assessment.

Over the course of the winter and breeding season surveys, these habitat conditions remained largely unchanged from the time of the habitat assessment. The fields within the Project site showed

evidence of recent discing and were unsuitable for burrowing mammals, and evidence of ground squirrel activity was limited to the drainage basins described above.

During the burrow survey, biologists mapped all burrows or surrogate burrows within areas identified as suitable habitat. A total of 24 burrows with sign, 207 existing burrows with no sign, and 36 surrogate burrows, for a total of 267 burrows or surrogate burrows, were mapped within the Survey Area during the survey efforts. Of these, one burrow with sign and one existing burrow were mapped within the Project fence line. The remaining observation were outside of the Project fence line, but within the 150-meter survey buffer. During the burrow survey, most of the burrows identified were found within the two drainage basins adjacent to South Ohio Avenue and South Derrick Avenue that based on current design are anticipated to remain undisturbed by Project activities.

Table 1 summarizes the findings of the burrow survey. Figure 3 depicts the locations of all burrows identified during the burrow survey and Figure 4 depicts the location of all burrows with sign. Appendix A contains representative photographs from the surveys and Appendix B lists details associated with each burrow identified during the burrow survey.

Table 1. Summary of Burrows Survey

Burrow Status	Number Observed
Burrow with Sign	24
Existing Burrow	207
Other (i.e., surrogate burrow)	36
Total	**267**

4.2 Protocol Surveys

4.2.1 Winter Season Survey

Protocol winter season surveys were performed on December 11 and 12, 2024 (surveys 1 and 2), and January 7 and 8, 2025 (surveys 3 and 4). During these surveys, all previously mapped burrows were visited. All individual BUOW observed during the protocol surveys were associated with previously identified burrows with sign. During the protocol surveys, all individual BUOW observations occurred outside of the Project fence line but within the 150-meter survey buffer except for a single BUOW during protocol survey 1 that was observed at a burrow with sign within the Project fence line. No BUOWs were observed foraging within the Survey Area during the protocol surveys.

During surveys 1 and 2, up to eight individual BUOWs were observed in association with burrows. Of these, one BUOW was observed during survey 1 at Burrow ID 4, which was located within the Project fence line (Figure 4). During surveys 3 and 4, up to four individual BUOWs and six individual BUOWs, respectively, were observed in association with burrows. All observations of individual BUOWs during surveys 3 and 4 occurred outside of the Project fence line but within the Survey Area. Table 2 summarizes the protocol winter season surveys and results. Figure 4 depicts the location of burrows with sign identified during the winter season protocol survey. Additional notes on the burrows identified during the burrow survey with distinct Burrow IDs are provided in Appendix B.

During all four protocol surveys, all individual BUOW observations occurred at 13 distinct burrows with sign. However, as shown on Figure 4, a total of 24 burrows with sign were documented during the survey with many burrows with sign in proximity to other burrows with sign. This indicates that a given individual BUOW is likely using one or more burrows within the Survey Area and this is why there is also uncertainty around the number of individual BUOW that could be present. It has been conservatively assumed that each BUOW observed for each survey was a unique individual instead of the same individual being observed multiple times.

Table 2. Summary of Winter Season Survey

Survey	Date and Time	Weather Conditions[1]	Biologists	Survey Results	Live BUOW Occurrences
Protocol 1	12/11/2024 2:45 p.m.–4:38 p.m.	57-60°F, 0-5 mph wind, 15-25% cloud cover	Jack Gordon, Ari Naiman, and Lauren Jennings	Eight BUOWs observed. One BUOW observed within the Project fence line and seven BUOWs were observed outside of the Project fence line but within the 150-meter buffer.	Burrow IDs: 1, 2, 3, 4, 5, 6, 8, and 14.
Protocol 2	12/12/2024 3:05 p.m.–4:50 p.m.	55-57°F, 0-5 mph wind, 50-70% cloud cover	Jack Gordon, Ari Naiman, and Lauren Jennings	Eight BUOWs observed outside of the Project fence line but within the 150-meter buffer.	Burrow IDs: 3, 7, 8, 14, 16, 19, 94, and 117.
Protocol 3	1/7/2025 3:00 p.m.–4:52 p.m.	60-64°F, 10-15 mph wind, 20-40% cloud cover	Jack Gordon, Ari Naiman, and Lauren Jennings	Four BUOWs observed outside of the Project fence line but within the 150-meter buffer.	Burrow IDs: 1, 3, 5, and 7.
Protocol 4	1/8/2025 3:00 p.m.–5:01 p.m.	56-62°F, 0-5 mph wind, 0-10% cloud cover	Jack Gordon and Ari Naiman	Six BUOWs observed outside of the Project fence line but within the 150-meter buffer.	Burrow IDs: 1, 2, 5, 6, 8, and 19.

1/ °F = degrees Fahrenheit, mph = miles per hour

4.2.2 Breeding Season Survey

Protocol breeding season surveys were performed on April 9, May 5, May 27, and June 19, 2025. During these surveys, all previously mapped burrows were visited. No live individual BUOW were observed during the breeding season surveys, and no new sign which may indicate BUOW presence during the breeding season was observed. Table 3 summarizes the protocol breeding season surveys and results.

Table 3. Summary of Breeding Season Survey

Survey	Date and Time	Weather Conditions[1]	Biologists	Survey Results	Live BUOW Occurrences
Protocol 1	4/9/2025 6:47 a.m.–8:42 a.m.	50-53°F, 0-5 mph wind, 0% cloud cover	Jack Gordon and Lauren Jennings	All identified burrows were visited. No BUOW individuals were observed.	None
Protocol 2	5/5/2025 5:48 p.m.–7:37 p.m.	80-52°F, 5-10 mph wind, 0% cloud cover	Jack Gordon and Lauren Jennings	All identified burrows were visited. No BUOW individuals were observed.	None
Protocol 3	5/27/2025 7:38 a.m.–9:31 a.m.	63-66°F, 0-5 mph wind, 0% cloud cover	Jack Gordon	All identified burrows were visited. No BUOW individuals were observed.	None
Protocol 4	5/5/2025 6:40 a.m.–8:15 a.m.	70-74°F, 5-10 mph wind, 0% cloud cover	Jack Gordon	All identified burrows were visited. No BUOW individuals were observed.	None

1/ °F = degrees Fahrenheit, mph = miles per hour

5.0 CONCLUSION

Most of the Project site has been subject to agricultural disturbance in the form of agricultural production and discing, for several years preceding the surveys. The repeated ground disturbance collapses burrows and discourages colonization by California ground squirrels and BUOW and has resulted in the vast majority of the Project site being unsuitable for BUOW burrows. Around the disced areas of the Project site, remnant grassland patches are composed of non-native grasses that create a thatch layer over the ground surface, further reducing suitability for BUOW. In areas not routinely subject to disturbance, suitable burrows for BUOW are present, but these areas are largely covered with non-native grassy and ruderal vegetation and provide low quality habitat for BUOWs. These areas are mainly outside of the Project fence line (i.e., disturbance limits), but within the 150-meter survey buffer. Additionally, there are many culverts and irrigation pipes in the vicinity of the Project site, all of which may provide suitable shelter to overwintering BUOWs.

During the surveys, all but one of the burrows with documented sign occur outside of the Project fence line. As shown on Figure 4, these burrows occur in the drainage basins adjacent to South Ohio Avenue between where it intersects with West American Avenue and West Lincoln Avenue, and adjacent to South Derrick Avenue between where it intersects with West Lincoln Avenue and West Adams Avenue. It is likely that individual BUOWs are using one or more burrows in these areas.

The results of the habitat assessment and winter season protocol survey indicate that the Project vicinity supports BUOW during the overwintering season. It is likely that the Project site only has few BUOWs present during the overwintering season and that each individual utilized multiple burrows. BUOW or new sign were not observed during the 2025 breeding season survey, indicating that the Project site and vicinity likely does not support a breeding BUOW.

6.0 REFERENCES

California Department of Fish and Game (CDFG). 2012. Staff Report on Burrowing Owl Mitigation. March.

California Department of Fish and Wildlife (CDFW). 2024. California Natural Diversity Database. https://wildlife.ca.gov/Data/CNDDB/Maps-and-Data#43018408-cnddb-in-bios. Accessed December 2024.

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Johnson, D., Gillis, D., Gregg, M., Rebholz, J., Lincer, J., and Belthoff, J., 2010. Users Guide to Installation of Artificial Burrows for Burrowing Owls. Unpublished report. Tree Top Inc., Selah, Washington, USA.

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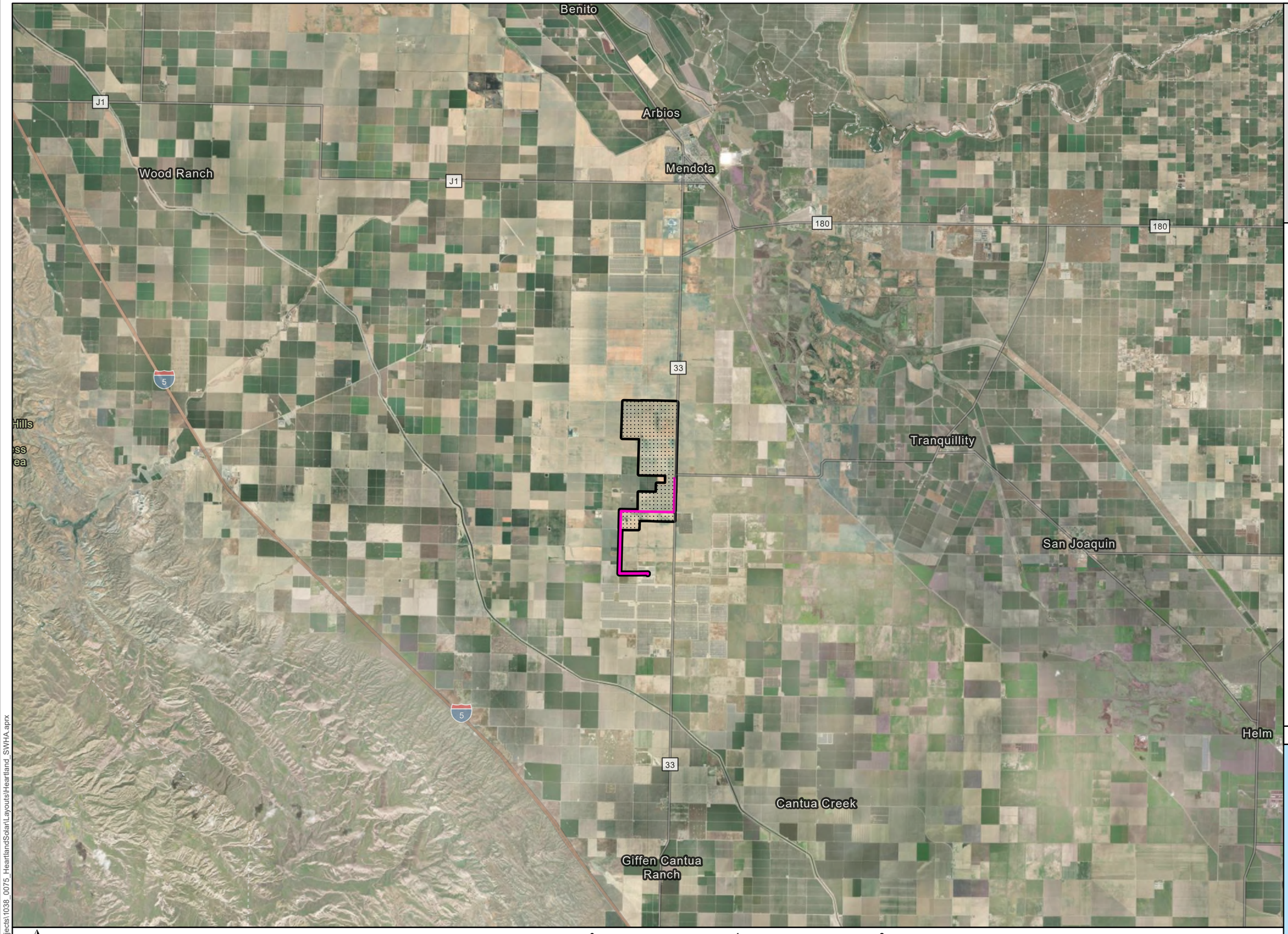


Clearway Energy
Heartland Solar Project

Figure 1
Regional Vicinity

Fresno County, CA

Proposed Features

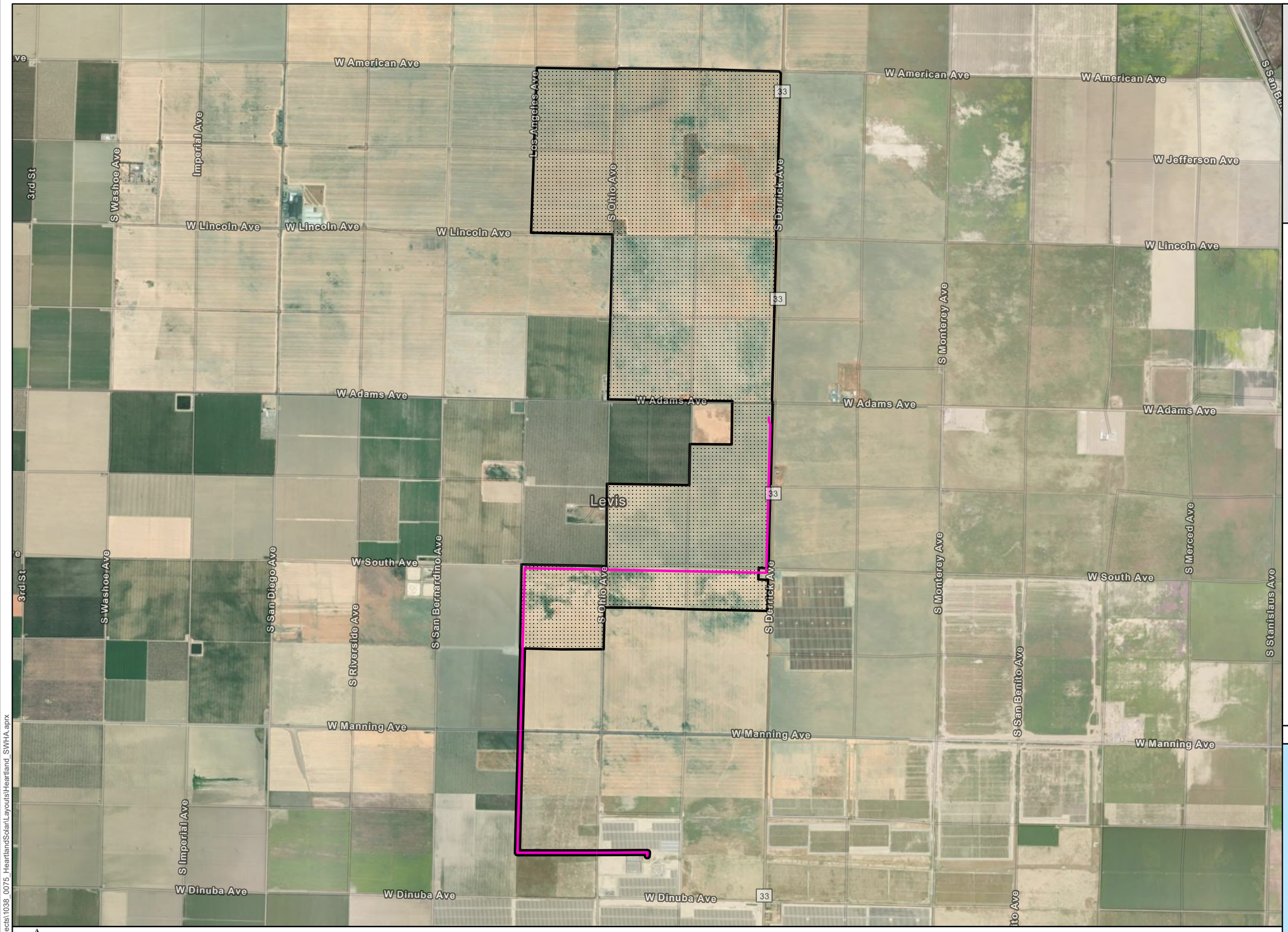
- Gen-tie Line
- Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

Z:\Projects\1038_0075_HeartlandSolar\Layouts\Heartland_SWHA.aprx



Clearway Energy
Heartland Solar Project

Figure 2
Project Location

Fresno County, CA

Proposed Features

- Gen-tie Line
- Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:35,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 1 2 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

Z:\Projects\1038_0075_HeartlandSolar\Layouts\Heartland_SWHA.aprx

Clearway Energy
Heartland Solar Project

Figure 3
Burrow Mapping Results

Fresno County, CA

Proposed Features

- Gen-tie Line
- Fenceline
- Buffer (150-m)

Burrow Type

- Burrow with Sign
- Existing Burrow
- Other

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:35,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 1 2 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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Clearway Energy
Heartland Solar Project

Figure 4
Burrows with Sign

Fresno County, CA

Proposed Features

- Gen-tie Line
- Fenceline
- Buffer (150-m)

Burrow Type

- Burrow with Sign

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:35,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 1 2 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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APPENDIX A: REPRESENTATIVE PHOTOGRAPHS

Photograph 1 **Notes:** Representative photo of recently disced field located on the Project site.	

Photograph 2 **Notes:** Representative photo of dense remnant grassland patch located on the Project site.	

Photograph 3 **Notes:** Representative photo of recently disced field with dense patches of Russian thistle and salt brush on the Project site.	

Photograph 4 **Notes:** Representative photo of drainage basin within the 150-meter survey buffer.	

Photograph 5 **Notes:** Representative photo of a burrow with sign (i.e., whitewash).	

Photograph 6 **Notes:** Representative photo of a burrow with sign (i.e., whitewash).	

Photograph 7 **Notes:** Representative photo of a BUOW observed within a burrow in the 150-meter survey buffer.	

Photograph 8 **Notes:** Representative photo of a BUOW observed within a burrow in the 150-meter survey buffer.	

Photograph 9 **Notes:** Representative photo of an existing burrow without BUOW sign.	

Photograph 10 **Notes:** Representative photo of an irrigation pipe that could function as a surrogate burrow.	

APPENDIX B: LIST OF POTENTIAL BURROWS IDENTIFIED DURING THE BURROW SURVEY

Table B-1. List of Potential Burrows Identified during the Burrow Survey

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
1	Burrow with sign	4x6	Feathers, pellets, whitewash	Owl observed during burrow survey. Owl observed at burrow during protocol winter surveys 1, 3, and 4.	Buffer
2	Burrow with sign	4x7	Whitewash	Owl observed during burrow survey. Owl observed at burrow during protocol winter surveys 1 and 4.	Buffer
3	Burrow with sign	5x5	Pellets	Owl observed during burrow survey. Owl observed at burrow during protocol winter surveys 1, 2, and 3.	Buffer
4	Burrow with sign	4x5	Whitewash, pellets	Owl observed during burrow survey. Owl observed at burrow during protocol winter survey 1.	Project Site
5	Burrow with sign	5x5	Feathers, pellets, whitewash	Owl observed during burrow survey. Owl observed at burrow during protocol winter surveys 1, 3, and 4.	Buffer
6	Burrow with sign	5x6	Whitewash	Owl observed during burrow survey. Owl observed at burrow during protocol winter surveys 1 and 4.	Buffer
7	Burrow with sign	4x4	Feathers, whitewash	Owl observed during burrow survey. Owl observed at burrow during protocol winter survey 2.	Buffer
8	Burrow with sign	5x5	Whitewash	Owl observed during burrow survey. Owl observed at burrow during protocol winter surveys 1, 2, and 4.	Buffer
9	Burrow with sign	6x5	Whitewash, pellets	None	Buffer
10	Burrow with sign	4x5	Whitewash	None	Buffer
11	Burrow with sign	6x4	Whitewash, pellets	None	Buffer
12	Burrow with sign	5x5	Whitewash, pellets	None	Buffer
13	Burrow with sign	5x5	Feathers, pellets, whitewash	None	Buffer
14	Burrow with sign	5x5	Feathers, pellets, whitewash	Owl observed at burrow during protocol winter surveys 1 and 2.	Buffer
15	Burrow with sign	20x20	Whitewash	Irrigation pipe	Buffer
16	Burrow with sign	5x4	Whitewash, pellets	Owl observed at burrow during protocol winter survey 2.	Buffer
17	Burrow with sign	5x6	Whitewash, pellets	Owl observed at burrow during protocol winter survey 3.	Buffer
18	Burrow with sign	5x5	Whitewash, pellets	None	Buffer
19	Burrow with sign	5x4	Whitewash, pellets	Owl observed at burrow during protocol winter surveys 2 and 4.	Buffer
20	Burrow with sign	4x4	Whitewash, pellets	None	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
21	Burrow with sign	6x6	Whitewash	None	Buffer
22	Burrow with sign	5x4	Feathers, whitewash	None	Buffer
23	Existing burrow	5x6	None	None	Buffer
24	Existing burrow	4x6	None	None	Buffer
25	Existing burrow	4x6	None	None	Buffer
26	Existing burrow	4x7	None	None	Buffer
27	Existing burrow	4x5	None	None	Buffer
28	Existing burrow	4x4	None	None	Buffer
29	Existing burrow	4x6	None	None	Buffer
30	Existing burrow	4x4	None	None	Buffer
31	Existing burrow	4x6	None	None	Buffer
32	Existing burrow	5x5	None	None	Buffer
33	Existing burrow	4x4	None	None	Buffer
34	Existing burrow	4x4	None	None	Buffer
35	Existing burrow	4x6	None	None	Buffer
36	Existing burrow	24x24	None	None	Buffer
37	Existing burrow	5x5	None	None	Buffer
38	Existing burrow	4x4	None	None	Buffer
39	Existing burrow	5x6	None	None	Buffer
40	Existing burrow	5x5	None	None	Buffer
41	Existing burrow	4x5	None	None	Buffer
42	Existing burrow	4x5	None	None	Buffer
43	Existing burrow	5x5	None	None	Buffer
44	Existing burrow	4x6	None	None	Buffer
45	Existing burrow	5x6	None	None	Buffer
46	Existing burrow	5x6	None	None	Buffer
47	Existing burrow	5x6	None	None	Buffer
48	Existing burrow	4x6	None	None	Buffer
49	Existing burrow	4x6	None	None	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
50	Existing burrow	5x5	None	None	Buffer
51	Existing burrow	4x4, 4x4, 4x4, 4x4	None	Complex of 4 burrows.	Buffer
52	Existing burrow	5x6	None	None	Buffer
53	Existing burrow	5x5	None	None	Buffer
54	Existing burrow	4x4	None	None	Buffer
55	Existing burrow	6x10	None	None	Buffer
56	Existing burrow	4x7	None	None	Buffer
57	Existing burrow	5x5	None	None	Buffer
58	Existing burrow	5x6	None	None	Buffer
59	Existing burrow	4x9	None	None	Buffer
60	Existing burrow	5x6	None	None	Buffer
61	Existing burrow	4x4, 4x4, 4x5	None	Complex of 3 burrows.	Buffer
62	Existing burrow	5x5	None	None	Buffer
63	Existing burrow	4x5	None	None	Buffer
64	Existing burrow	4x5	None	None	Buffer
65	Existing burrow	4x4	None	None	Buffer
66	Existing burrow	4x6	None	None	Buffer
67	Existing burrow	6x6	None	None	Buffer
68	Existing burrow	6x6	None	None	Buffer
69	Existing burrow	5x10	None	None	Buffer
70	Existing burrow	6x6	None	None	Buffer
71	Existing burrow	6x4	None	None	Buffer
72	Existing burrow	6x4	None	None	Buffer
73	Existing burrow	9x6	None	None	Buffer
74	Existing burrow	6x12	None	None	Buffer
75	Existing burrow	5x5	None	None	Buffer
76	Existing burrow	5x5	None	None	Buffer
77	Existing burrow	4x4	None	None	Buffer
78	Existing burrow	5x5	None	None	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
79	Existing burrow	4x4	None	None	Buffer
80	Existing burrow	6x6	None	None	Buffer
81	Existing burrow	5x5	None	None	Buffer
82	Existing burrow	5x5	None	None	Buffer
83	Existing burrow	4x5	None	None	Buffer
84	Existing burrow	4x5	None	None	Buffer
85	Existing burrow	4x5	None	None	Buffer
86	Existing burrow	4x4	None	None	Buffer
87	Existing burrow	4x4	None	None	Buffer
88	Existing burrow	5x5	None	None	Buffer
89	Existing burrow	5x5	None	None	Buffer
90	Existing burrow	4x4	None	None	Buffer
91	Existing burrow	4x4	None	None	Buffer
92	Existing burrow	4x4	None	None	Buffer
93	Existing burrow	5x5	None	None	Buffer
94	Burrow with sign	5x5	None	Owl observed at burrow during protocol winter survey 2.	Buffer
95	Existing burrow	6x6	None	None	Buffer
96	Existing burrow	4x4	None	None	Buffer
97	Existing burrow	4x4	None	None	Buffer
98	Existing burrow	5x5	None	None	Buffer
99	Existing burrow	4x4	None	None	Buffer
100	Existing burrow	4x4	None	None	Buffer
101	Existing burrow	4x4	None	None	Buffer
102	Existing burrow	4x4	None	None	Buffer
103	Existing burrow	8x8	None	None	Buffer
104	Existing burrow	4x4	None	None	Buffer
105	Existing burrow	5x5	None	None	Buffer
106	Existing burrow	4x4	None	None	Buffer
107	Existing burrow	5x5	None	None	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
108	Existing burrow	4x4	None	None	Buffer
109	Existing burrow	4x4	None	None	Buffer
110	Existing burrow	4x4	None	None	Buffer
111	Existing burrow	4x4	None	None	Buffer
112	Existing burrow	4x4	None	None	Buffer
113	Existing burrow	4x4	None	None	Buffer
114	Existing burrow	4x4	None	None	Buffer
115	Existing burrow	4x4	None	None	Buffer
116	Existing burrow	5x5	None	None	Buffer
117	Burrow with sign	16x14	None	Owl observed at burrow during protocol winter survey 2.	Buffer
118	Existing burrow	4x4	None	None	Buffer
119	Existing burrow	5x5	None	None	Buffer
120	Existing burrow	4x4	None	None	Buffer
121	Existing burrow	4x4	None	None	Buffer
122	Existing burrow	4x4	None	None	Buffer
123	Existing burrow	4x4	None	None	Buffer
124	Existing burrow	4x4	None	None	Buffer
125	Existing burrow	5x5	None	None	Buffer
126	Existing burrow	5x5	None	None	Buffer
127	Existing burrow	5x5	None	None	Buffer
128	Existing burrow	5x5	None	None	Buffer
129	Existing burrow	5x5	None	None	Buffer
130	Existing burrow	4x4	None	None	Buffer
131	Existing burrow	5x4	None	None	Buffer
132	Existing burrow	5x4	None	None	Buffer
133	Existing burrow	5x4	None	None	Buffer
134	Existing burrow	6x4	None	None	Buffer
135	Existing burrow	4x4	None	None	Buffer
136	Existing burrow	4x4	None	None	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
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139	Existing burrow	4x4	None	None	Buffer
140	Existing burrow	4x4	None	None	Buffer
141	Existing burrow	4x4	None	None	Buffer
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145	Existing burrow	4x4	None	None	Buffer
146	Existing burrow	4x4	None	None	Buffer
147	Existing burrow	4x4	None	None	Buffer
148	Existing burrow	5x4	None	None	Buffer
149	Existing burrow	4x4	None	None	Buffer
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151	Existing burrow	5x4	None	None	Buffer
152	Existing burrow	4x5	None	None	Buffer
153	Existing burrow	4x4	None	None	Buffer
154	Existing burrow	6x4	None	None	Buffer
155	Existing burrow	4x4	None	None	Buffer
156	Existing burrow	4x4	None	None	Buffer
157	Existing burrow	4x6	None	None	Buffer
158	Existing burrow	4x4	None	None	Buffer
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163	Existing burrow	5x5	None	None	Buffer
164	Existing burrow	5x4	None	None	Buffer
165	Existing burrow	5x5	None	None	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
166	Existing burrow	5x4	None	None	Buffer
167	Existing burrow	5x4	None	None	Buffer
168	Existing burrow	4x4	None	None	Buffer
169	Existing burrow	4x4	None	None	Buffer
170	Existing burrow	4x4	None	None	Buffer
171	Existing burrow	4x4	None	None	Buffer
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175	Existing burrow	4x4	None	None	Buffer
176	Existing burrow	4x4	None	None	Buffer
177	Existing burrow	4x4	None	None	Buffer
178	Existing burrow	5x5	None	None	Buffer
179	Existing burrow	5x5	None	None	Buffer
180	Existing burrow	5x5	None	None	Buffer
181	Existing burrow	4x4	None	None	Buffer
182	Existing burrow	4x4	None	None	Buffer
183	Existing burrow	5x4	None	None	Buffer
184	Existing burrow	4x4	None	None	Buffer
185	Existing burrow	6x4	None	None	Buffer
186	Existing burrow	4x4	None	None	Buffer
187	Existing burrow	4x5	None	None	Project Site
188	Existing burrow	4x4	None	None	Buffer
189	Existing burrow	5x5	None	None	Buffer
190	Existing burrow	5x5	None	None	Buffer
191	Existing burrow	5x5	None	None	Buffer
192	Existing burrow	4x4	None	None	Buffer
193	Existing burrow	4x4	None	None	Buffer
194	Existing burrow	4x4	None	None	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
195	Existing burrow	5x4	None	None	Buffer
196	Existing burrow	6x4	None	None	Buffer
197	Existing burrow	4x4	None	None	Buffer
198	Existing burrow	5x4	None	None	Buffer
199	Existing burrow	4x4	None	None	Buffer
200	Existing burrow	5x4	None	None	Buffer
201	Existing burrow	5x4	None	None	Buffer
202	Existing burrow	5x4	None	None	Buffer
203	Existing burrow	8x8	None	None	Buffer
204	Existing burrow	4x4	None	None	Buffer
205	Existing burrow	4x4	None	None	Buffer
206	Existing burrow	7x4	None	None	Buffer
207	Existing burrow	4x4	None	None	Buffer
208	Existing burrow	5x5	None	None	Buffer
209	Existing burrow	4x4	None	None	Buffer
210	Existing burrow	6x4	None	None	Buffer
211	Existing burrow	4x4	None	None	Buffer
212	Existing burrow	4x4	None	None	Buffer
213	Existing burrow	4x4	None	None	Buffer
214	Existing burrow	4x4	None	None	Buffer
215	Existing burrow	4x4	None	None	Buffer
216	Existing burrow	4x5	None	None	Buffer
217	Existing burrow	5x4	None	None	Buffer
218	Existing burrow	5x4	None	None	Buffer
219	Existing burrow	5x4	None	None	Buffer
220	Existing burrow	5x4	None	None	Buffer
221	Existing burrow	6x5	None	None	Buffer
222	Existing burrow	6x5	None	None	Buffer
223	Existing burrow	5x5	None	None	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
224	Existing burrow	4x4	None	None	Buffer
225	Existing burrow	4x5	None	None	Buffer
226	Existing burrow	7x5	None	None	Buffer
227	Existing burrow	4x5	None	None	Buffer
228	Existing burrow	6x4	None	None	Buffer
229	Existing burrow	4x4	None	None	Buffer
230	Existing burrow	5x4	None	None	Buffer
231	Existing burrow	4x4	None	None	Buffer
232	Other	10x10	None	Irrigation pipe	Buffer
233	Other	10x10	None	Irrigation pipe	Buffer
234	Other	10x10	None	Irrigation pipe	Buffer
235	Other	12x12	None	Irrigation pipe	Buffer
236	Other	10x10	None	Irrigation pipe	Buffer
237	Other	12x25	None	Culvert	Buffer
238	Other	17x25	None	Culvert	Buffer
239	Other	15x25	None	Culvert	Buffer
240	Other	28x28	None	Culvert	Buffer
241	Other	7x11	None	Culvert	Buffer
242	Other	5x10	None	Irrigation pipe	Buffer
243	Other	7x7	None	Irrigation pipe	Buffer
244	Other	9x11	None	Irrigation pipe	Buffer
245	Other	16x16	None	Culvert, partially filled with dirt	Buffer
246	Other	6x8	None	Culvert	Buffer
247	Other	22x20	None	Culvert, partially filled with vegetation	Buffer
248	Other	22x22	None	Culvert, partially filled with vegetation	Buffer
249	Other	22x8	None	Culvert, partially filled with vegetation	Buffer
250	Other	11x11	None	Irrigation pipe	Buffer
251	Other	15x4	None	Culvert, partially buried	Buffer
252	Other	28x28	None	Culvert	Buffer

Burrow ID	Burrow Type	Burrow Dimensions (inches)	Sign Description	Notes	Location (Project Site or Buffer)
253	Other	10x24	None	Culvert, partially filled with vegetation	Buffer
254	Other	24x24	None	Culvert	Buffer
255	Other	11x11	None	Irrigation pipe, partially filled with dirt	Buffer
256	Other	9x7	Whitewash	Irrigation pipe. Common perch point for avian species, whitewash is likely attributed by numerous species.	Buffer
257	Other	11x11	Whitewash	Irrigation pipe. Common perch point for avian species, whitewash is likely attributed by numerous species.	Buffer
258	Other	11x11	Whitewash	Irrigation pipe. Common perch point for avian species, whitewash is likely attributed by numerous species.	Buffer
259	Other	11x11	Whitewash	Irrigation pipe. Common perch point for avian species, whitewash is likely attributed by numerous species.	Buffer
260	Other	20x20	Whitewash	Irrigation pipe. Common perch point for avian species, whitewash is likely attributed by numerous species.	Buffer
261	Other	11x11	Whitewash	Irrigation pipe. Common perch point for avian species, whitewash is likely attributed by numerous species.	Buffer
262	Other	11x11	Whitewash	Irrigation pipe. Common perch point for avian species, whitewash is likely attributed by numerous species.	Buffer
263	Other	11x11	None	Irrigation pipe	Buffer
264	Other	11x11	None	Irrigation pipe	Buffer
265	Other	9x9	None	Culvert	Buffer
266	Other	12x12	None	Culvert	Buffer
267	Other	10x10	None	Irrigation pipe	Buffer

Appendix F
Tribal Consultation

F1 Letters Inviting Consultation

F2 Confirmation of Conclusion of Formal Consultation

F1 Letters Inviting Consultation

County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

April 19, 2022

VIA CERTIFIED MAIL

Ruben Barrios, Tribal Chairman
Santa Rosa Rancheria Tachi Yokut Tribe
Cultural Department
PO Box 8
Lemoore, CA 93245

Subject: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto, 2014). Formal Notification of Determination that a Project Application is Complete or Decision to Undertake a Project, and Notification of Consultation Opportunity, pursuant to Public Resources Code § 21080.3.1 (hereafter PRC).

Dear Mr. Barrios:

The County of Fresno is acting as the Lead Agency in the preparation of Environmental Impact Report 7564, Conditional Use Permit (CUP) Applications No. 3630 and 3631, and Variance Application No. 4122.

Under California state law, the project is subject to the California Environmental Quality Act (CEQA), and the County may have to prepare an environmental document consisting of an Environmental Impact Report.

State law under Assembly Bill 52 (PRC Section 21080.3.1) allows California Native American tribes 30 days to request consultation regarding possible significant effects that implementation of the proposed project may have on tribal cultural resources. The request must be in writing to the County of Fresno and must identify a lead contact person. The County will begin the consultation process within 30 days of receiving the tribe's request for consultation. The consultation may include a discussion concerning the type of environmental review necessary for the project, the significance of tribal cultural resources discovered, the significance of the project's impacts on tribal cultural resources, and, if necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend.

A copy of the agency routing package prepared for the subject proposal is enclosed with this letter which includes the project description and a map showing the project location. The point of contact for this project is given below.

Pursuant to PRC § 21080.3.1(b), you have 30 days from the receipt of this letter to request consultation, in writing, with the County of Fresno.

You may contact me at MParker@fresnocountyca.gov or call me at (559) 600-9669 should you have any questions regarding this letter.

Sincerely,

Marissa Parker, Planner
Development Services and Capital Projects Division

MP
G:\4360Devs&Pln\PROJSEC\PROJDOCS\Environmental\EIR - EIS\. 7564 Heartland Hydrogen\AB 52\AB52 Letter Barrios

Enclosures

County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

April 19, 2022

VIA CERTIFIED MAIL

Robert Pennell, Tribal Cultural Resources Director
Table Mountain Rancheria
PO Box 410
Friant, CA 93626

Subject: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto, 2014). Formal Notification of Determination that a Project Application is Complete or Decision to Undertake a Project, and Notification of Consultation Opportunity, pursuant to Public Resources Code § 21080.3.1 (hereafter PRC).

Dear Mr. Pennell:

The County of Fresno is acting as the Lead Agency in the preparation of Environmental Impact Report 7564, Conditional Use Permit (CUP) Applications No. 3630 and 3631, and Variance Application No. 4122.

Under California state law, the project is subject to the California Environmental Quality Act (CEQA), and the County may have to prepare an environmental document consisting of an Environmental Impact Report.

State law under Assembly Bill 52 (PRC Section 21080.3.1) allows California Native American tribes 30 days to request consultation regarding possible significant effects that implementation of the proposed project may have on tribal cultural resources. The request must be in writing to the County of Fresno and must identify a lead contact person. The County will begin the consultation process within 30 days of receiving the tribe's request for consultation. The consultation may include a discussion concerning the type of environmental review necessary for the project, the significance of tribal cultural resources discovered, the significance of the project's impacts on tribal cultural resources, and, if necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend.

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Pursuant to PRC § 21080.3.1(b), you have 30 days from the receipt of this letter to request consultation, in writing, with the County of Fresno.

You may contact me at MParker@fresnocountyca.gov or call me at (559) 600-9669 should you have any questions regarding this letter.

Sincerely,

Marissa Parker, Planner
Development Services and Capital Projects Division

MP
G:\4360Devs&Pln\PROJSEC\PROJDOCS\Environmental\EIR - EIS\. 7564 Heartland Hydrogen\AB 52\AB52 Letter Pennell

Enclosures

County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

April 19, 2022

VIA CERTIFIED MAIL

Heather Airey, Cultural Resources Director
Picayune Rancheria of the Chukchansi Indians
PO Box 2226
Oakhurst, CA 93644

Subject: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto, 2014). Formal Notification of Determination that a Project Application is Complete or Decision to Undertake a Project, and Notification of Consultation Opportunity, pursuant to Public Resources Code § 21080.3.1 (hereafter PRC).

Dear Ms. Airey:

The County of Fresno is acting as the Lead Agency in the preparation of Environmental Impact Report 7564, Conditional Use Permit (CUP) Applications No. 3630 and 3631, and Variance Application No. 4122.

Under California state law, the project is subject to the California Environmental Quality Act (CEQA), and the County may have to prepare an environmental document consisting of an Environmental Impact Report.

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Pursuant to PRC § 21080.3.1(b), you have 30 days from the receipt of this letter to request consultation, in writing, with the County of Fresno.

You may contact me at MParker@fresnocountyca.gov or call me at (559) 600-9669 should you have any questions regarding this letter.

Sincerely,

Marissa Parker, Planner
Development Services and Capital Projects Division

MP
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Enclosures

County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

April 19, 2022

VIA CERTIFIED MAIL

Robert Ledger, Tribal Chairman
Dumna Wo Wah Tribal Government
2191 W. Pico Avenue
Fresno, CA 93705

Subject: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto, 2014). Formal Notification of Determination that a Project Application is Complete or Decision to Undertake a Project, and Notification of Consultation Opportunity, pursuant to Public Resources Code § 21080.3.1 (hereafter PRC).

Dear Mr. Ledger:

The County of Fresno is acting as the Lead Agency in the preparation of Environmental Impact Report 7564, Conditional Use Permit (CUP) Applications No. 3630 and 3631, and Variance Application No. 4122.

Under California state law, the project is subject to the California Environmental Quality Act (CEQA), and the County may have to prepare an environmental document consisting of an Environmental Impact Report.

State law under Assembly Bill 52 (PRC Section 21080.3.1) allows California Native American tribes 30 days to request consultation regarding possible significant effects that implementation of the proposed project may have on tribal cultural resources. The request must be in writing to the County of Fresno and must identify a lead contact person. The County will begin the consultation process within 30 days of receiving the tribe's request for consultation. The consultation may include a discussion concerning the type of environmental review necessary for the project, the significance of tribal cultural resources discovered, the significance of the project's impacts on tribal cultural resources, and, if necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend.

A copy of the agency routing package prepared for the subject proposal is enclosed with this letter which includes the project description and a map showing the project location. The point of contact for this project is given below.

Pursuant to PRC § 21080.3.1(b), you have 30 days from the receipt of this letter to request consultation, in writing, with the County of Fresno.

You may contact me at MParker@fresnocountyca.gov or call me at (559) 600-9669 should you have any questions regarding this letter.

Sincerely,

Marissa Parker, Planner
Development Services and Capital Projects Division

MP
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Enclosures

F2 Confirmation of Conclusion of Formal Consultation

Subject: FW: Heartland Hydrogen Project (EIR No. 7564): Near-term schedule items

From: Parker, Marissa <mparker@fresnocountyca.gov>
Sent: Friday, May 20, 2022 8:43 AM
To: Janna Scott <JScott@esassoc.com>; Randall , David A. <drandall@fresnocountyca.gov>
Cc: Jeff O'Neal <joneal@ppeng.com>; Elijah Shoemake <eshoemake@plugpower.com>; Louis De Rosa <louis.derosa@candelarenewables.com>; Mark Stout <mark@stoutpower.com>; James White <jwhite@irishhillsenv.com>; David Hochart <dhochart@dudek.com>; Jessica O'Dell <JODell@esassoc.com>; Olivia Silverstein <OSilverstein@esassoc.com>
Subject: RE: Heartland Hydrogen Project (EIR No. 7564): Near-term schedule items

Yes, the formal consultation process under AB 52 is now closed.

Thank you!

Marissa Parker| Planner
Department of Public Works and Planning | Development Services and Capital Projects
2220 Tulare St. 6th Floor Fresno, CA 93721
Main Office: (559) 600-4230 Direct: (559) 600-9669
Your input matters! Customer Service Survey

From: Janna Scott <JScott@esassoc.com>
Sent: Friday, May 20, 2022 8:23 AM
To: Parker, Marissa <mparker@fresnocountyca.gov>; Randall , David A. <drandall@fresnocountyca.gov>
Cc: Jeff O'Neal <joneal@ppeng.com>; Elijah Shoemake <eshoemake@plugpower.com>; Louis De Rosa <louis.derosa@candelarenewables.com>; Mark Stout <mark@stoutpower.com>; James White <jwhite@irishhillsenv.com>; David Hochart <dhochart@dudek.com>; Jessica O'Dell <JODell@esassoc.com>; Olivia Silverstein <OSilverstein@esassoc.com>
Subject: RE: Heartland Hydrogen Project (EIR No. 7564): Near-term schedule items

Very helpful – thanks so much! At this point, does the County consider the formal consultation process under AB 52 to be closed? We will be reaching out to Tribes as part of the CEQA process should they or their members decide to participate in the CEQA process, but that would be separate from the AB 52 process. Thanks for your efforts on the distribution list – the progress sounds great all the way around.

Janna Scott
ESA | Environmental Science Associates
408.660.4008 direct

From: Parker, Marissa <mparker@fresnocountyca.gov>
Sent: Friday, May 20, 2022 8:18 AM
To: Janna Scott <JScott@esassoc.com>; Randall , David A. <drandall@fresnocountyca.gov>; Jeff O'Neal <joneal@ppeng.com>; Elijah Shoemake <eshoemake@plugpower.com>; Louis De Rosa

<louis.derosa@candelarenewables.com>; Mark Stout <mark@stoutpower.com>; James White <jwhite@irishhillsenv.com>; David Hochart <dhochart@dudek.com>
Cc: Jessica O'Dell <JODell@esassoc.com>; Olivia Silverstein <OSilverstein@esassoc.com>
Subject: RE: Heartland Hydrogen Project (EIR No. 7564): Near-term schedule items

Good morning,

I have not received any correspondence from the Tribes requesting consultation. We are currently populating a property owner/mailing list with APNs within 1 mile of the hydrogen/solar portion of the project site.

Thank you!

Marissa Parker| Planner
Department of Public Works and Planning |
Development Services and Capital Projects
2220 Tulare St. 6th Floor Fresno, CA 93721
Main Office: (559) 600-4230 Direct: (559) 600-9669
Your input matters! Customer Service Survey

Appendix G
Energy Calculations

Heartland Solar - Project Fuel Use Calculations Project Construction

Diesel Emissions				
Offroad Equipment	2,314.80	MT CO_2		
Trucks (Vendor, Hauling, and Water)	459.05	MT CO_2		
Total Diesel Emissions	2773.85	MT CO_2		
	1000	kg/MT		
Total CO2 Emissions	2773850	kg CO_2		
Diesel fuel combustion rate	10.21	kg CO_2/gallon		
Diesel fuel consumption	271,680	gallons	182,000,000	0.15%
Gasoline Emissions				
Worker Trips	3421.65	MT CO_2		
	1000	kg/MT		
Total Emissions	3421650	kg CO_2		
Gasoline combustion rate	8.78	kg CO_2/gallon		
Gasoline consumption	389,710	gallons	387,000,000	0.10%

Note: (The Climate Registry, 2022) Combustion rates taken from The Climate Registry 2022 default
Source of CO_2 emissions: Solar Facility Construction Emissions located in Appendix A of Air Quality and Greenhouse Gas Emissions Technical Report Heartland Solar Project, Fresno County, California (Dudek, 2025).

Appendix H
Phase I Site Assessment

HEARTLAND HYDROGEN PROJECT, FRESNO COUNTY, CALIFORNIA

Phase I Environmental Site Assessment

Prepared for
Fresno County Department of Public Works
and Planning, Development Services, and
Capital Projects Division

September 2022

HEARTLAND HYDROGEN PROJECT, FRESNO COUNTY, CALIFORNIA

Phase I Environmental Site Assessment - Revised

Prepared for
Fresno County Department of Public Works
and Planning, Development Services and
Capital Projects Division

September 2022

1425 N. McDowell Boulevard
Suite 200
Petaluma, CA 94954
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esassoc.com

ESA

Bend	Orlando	San Jose
Camarillo	Pasadena	Santa Monica
Delray Beach	Petaluma	Sarasota
Destin	Portland	Seattle
Irvine	Sacramento	Tampa
Los Angeles	San Diego	
Oakland	San Francisco	

201900482

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SECTION 1.0
Executive Summary

Environmental Science Associates (ESA) compiled this executive summary using excerpts from the Phase I environmental site assessment report that follows. This executive summary may not provide all the information necessary to fully characterize the site and gain an understanding of the issues, nor does it detail the Phase I assessment and its findings. ESA does not recommend relying solely on this executive summary.

This Phase I environmental site assessment was conducted on behalf of the Fresno County Department of Public Works and Planning, Development Services and Capital Projects Division (Fresno County) for the Heartland Hydrogen Project (see **Figure 1, Project Area**). Heartland Hydrogen, LLC and Heartland Solar 1, LLC propose to generate hydrogen fuel from renewable sources including solar photovoltaic (PV) power and treated wastewater. The hydrogen facility, solar facility, and water treatment facility together constitute the Heartland Hydrogen Project (Project). The treated wastewater would be generated from a tertiary wastewater treatment facility that would be constructed at the south end of the existing Mendota Wastewater Treatment Plant (Mendota WWTP) in the City of Mendota to produce recycled water for hydrogen fuel production (see **Figure 2, Proposed Mendota Wastewater Treatment Facility**). The hydrogen fuel production facility would be powered by solar energy. Both the hydrogen facility and the solar facility would be constructed on property currently owned by the Westlands Water District that is located about nine miles south of the wastewater treatment facility (see **Figure 3, Proposed Solar Energy Generation and Hydrogen Fuel Production Facilities**). The wastewater treatment facility site and the solar and hydrogen facilities site are collectively the subject properties.

This Phase I assessment was conducted in general accordance with guidance from the American Society of Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property* (ASTM E2247-16), and 40 Code of Federal Regulations (CFR) Section 312.1, "*Purpose, Applicability, Scope and Disclosure Obligations*." This Phase I environmental site assessment was conducted to identify Recognized Environmental Conditions (RECs), Historical Recognized Environmental Conditions (HRECs), or Controlled Recognized Environmental Conditions (CRECs) at the subject properties (see Section 2.1 for definitions).

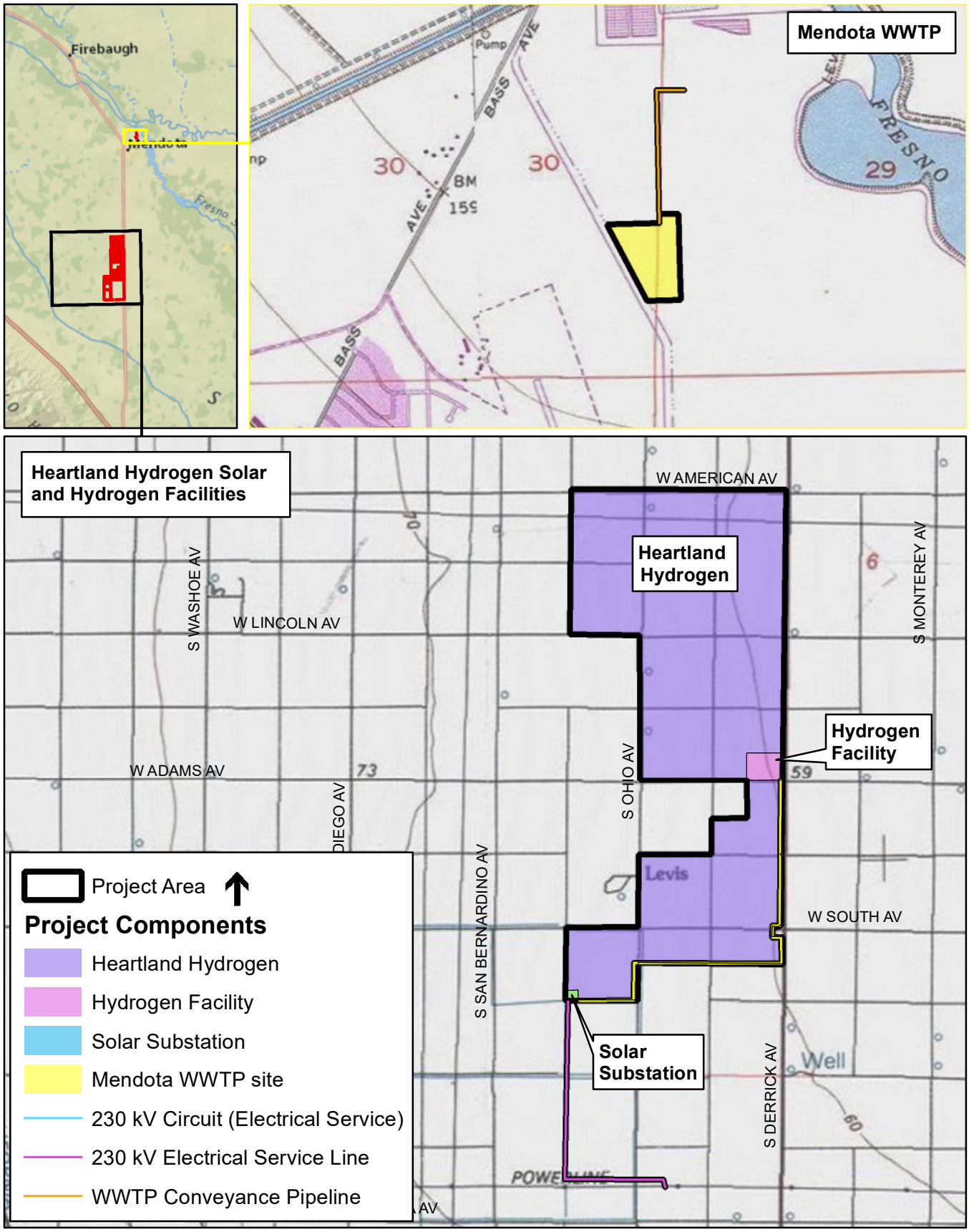
A commercial government records database service searched relevant federal, State, and local regulatory agency lists for listings of the subject properties assessed in this report, and for nearby properties within the appropriate ASTM 2247 standard search distances. In addition, regulatory agency websites were checked to provide additional information. The records search returned nine listings. All but one of the listings at or near the subject properties are not considered able to affect the subject properties. **The search of government regulatory records and other records did not reveal any RECs or CRECs. The Britz Fertilizers Property, located within the proposed solar facility, is considered an HREC because the spill at this location has been cleaned up to the satisfaction of the overseeing regulatory agency.**

The subject properties were inspected on April 29 and September 30, 2022. The proposed wastewater treatment facility site has a dried sludge pile, a sewage lift station, and a solar panel array (see Figure 2). **No RECs were observed relative to hazardous materials, hazardous waste, or chemical use, storage, or disposal**.

The proposed solar and hydrogen facilities site consists mostly of fallow or recently plowed farmland; no active farming was observed. Three areas, referred to as Dump Areas 1, 2, and 3, have been used for the illegal dumping of a light truck, a drum of used motor oil, refrigerators, microwaves, toilets, mattresses, tires, empty buckets and bottles, broken-up furniture and lumber, children's toys, rugs, household trash, empty boxes, dead sheep, and miscellaneous debris and trash (see Figure 3). The discarded debris and trash are considered a *de minimus* condition because no hazardous materials containers were observed and the discarded materials could be properly disposed of at any non-hazardous waste landfill. The one drum of motor oil could be recycled at any oil recycler. There were no observations of underground or aboveground storage tanks, waste ponds, unusual odors, or stressed vegetation. Occasional small areas of stained soil were observed but are considered a *de minimus* condition because the staining was not extensive or deep. Minor oil staining was observed on wood supports for an inactive drain sump pump but are considered a *de minimus* condition because no oil staining was observed on the adjacent soil and the adjacent vegetation was not stressed. **No RECs were observed relative to hazardous materials, hazardous waste, or chemical use, storage, or disposal**.

The city manager for the City of Mendota was interviewed regarding the history of the proposed Mendota wastewater treatment property. **The results of the interview are incorporated into this Phase I assessment and did not indicate any RECs, HRECs, or CRECs.**

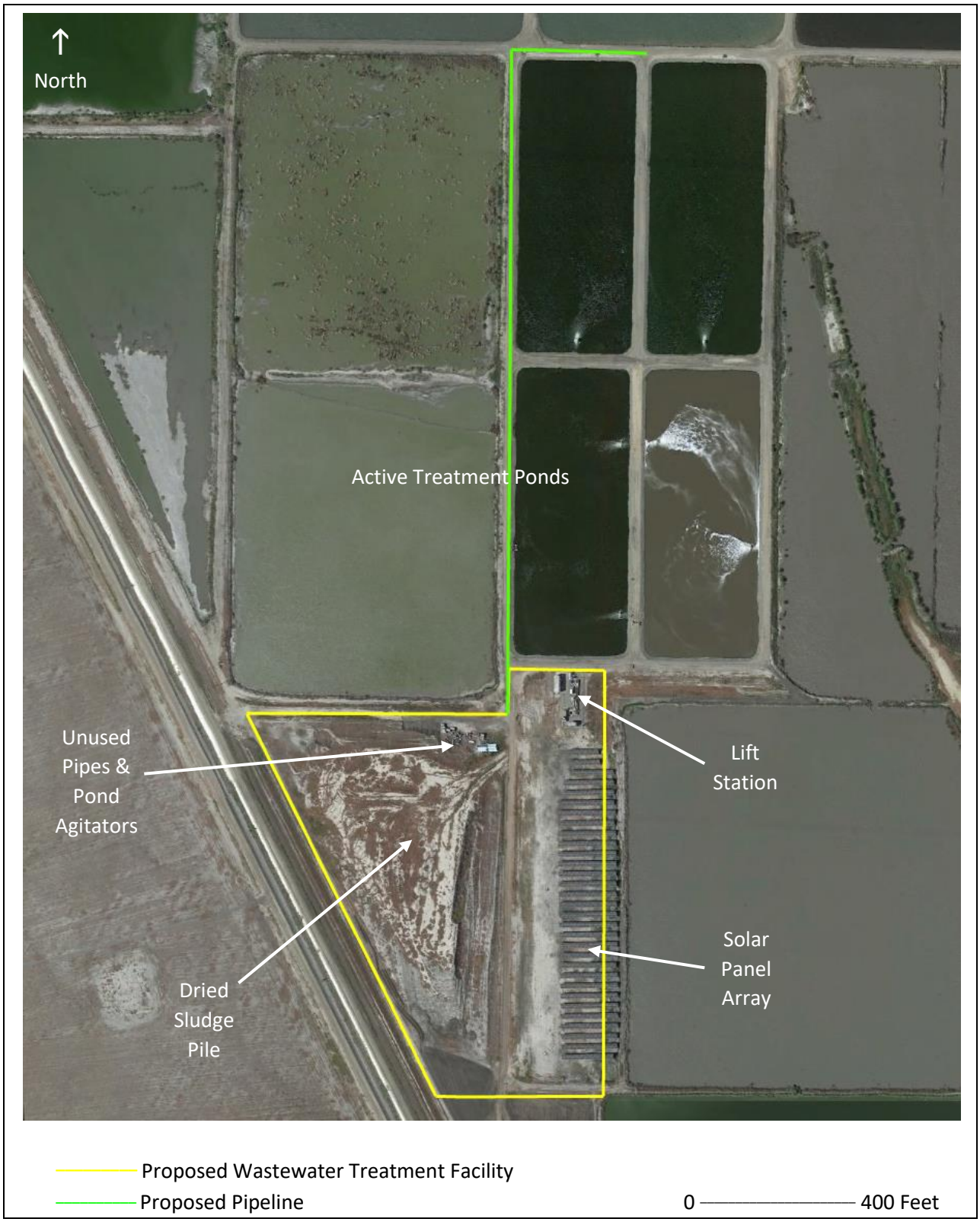
Fresno County provided a 2019 Phase I environmental site assessment as user-provided information for the proposed solar and hydrogen fuel production facilities. Westlands Water District either dry farms or leaves the proposed hydrogen fuel production subject property fallow. None of the existing irrigation infrastructure is in active use. Prior to Westlands acquiring the subject property in 2003, it was farmed primarily for cotton. An environmental lien search indicated there were no environmental liens or land use limitations associated with the subject property. **The results of the interview information did not indicate any RECs or CRECs. The prior Phase I assessment corroborated the previously noted Britz Fertilizers property, located at the proposed hydrogen fuel production facility, as an HREC.**



SOURCE: USGS 7.5' Topographic Quadrangle (Coit Ranch, CA; Levis, CA; Mendota Dam, CA)

Heartland Hydrogren Project. 201900482

Figure 1
Project Area

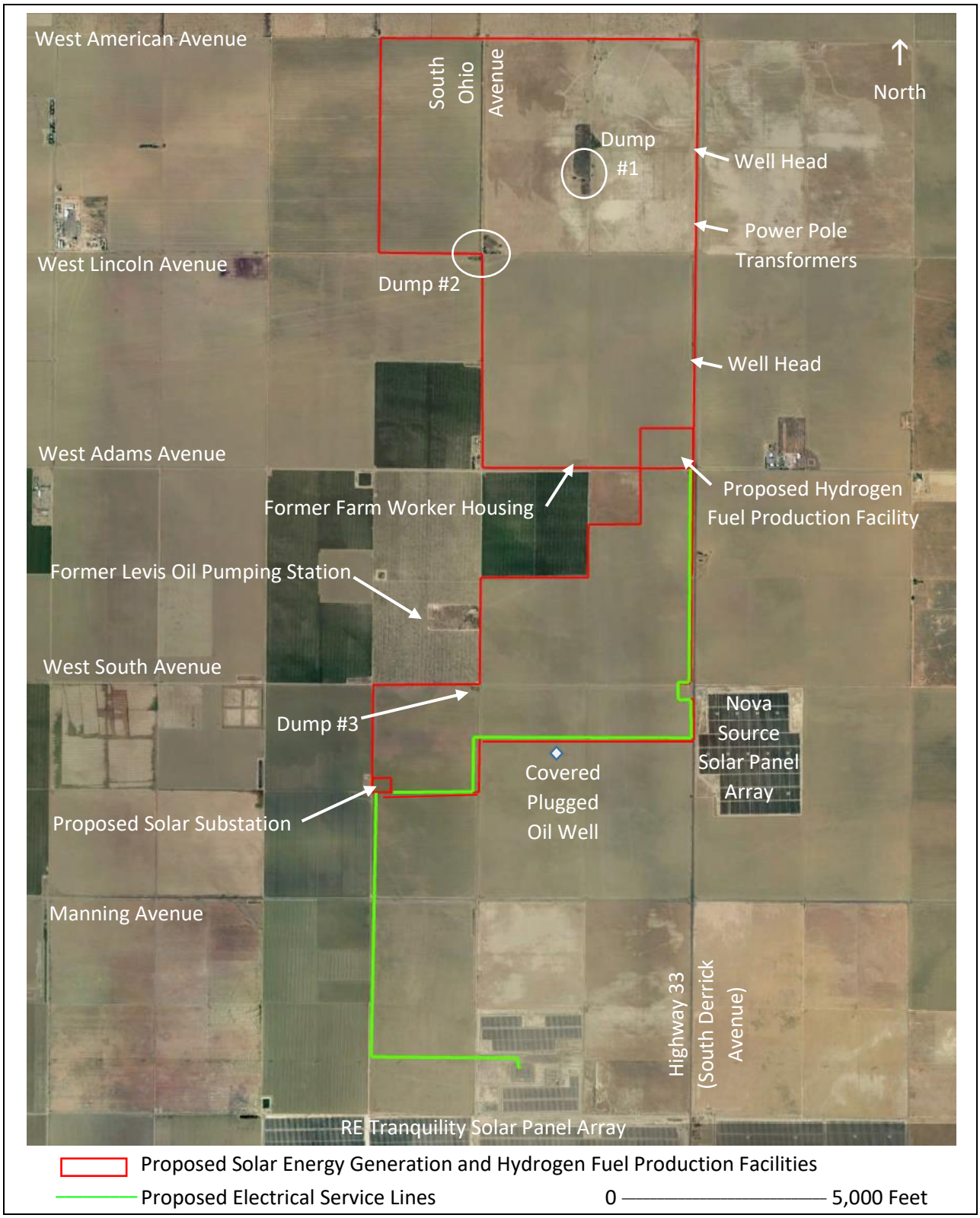


Heartland Hydrogen Project 201900482

SOURCE: Google, April 2021

Figure 2

Proposed Mendota Wastewater Treatment Plant



Heartland Hydrogen Project 201900482

SOURCE: Google, April 2021

Figure 3

Proposed Solar Energy Generation and Hydrogen Fuel Production Facilities

SECTION 2.0
Introduction

2.1 Purpose, Standards, and Definitions

On behalf of Fresno County, Environmental Science Associates conducted a Phase I environmental site assessment for the Heartland Hydrogen Project in Fresno County, California (collectively, the subject properties) (see Figure 1, *Project Area*).

This Phase I assessment was conducted in general accordance with the American Society of Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Properties* (ASTM E2247-16) (ASTM 2016) and the U.S. Environmental Protection Agency (EPA) Final Rule regarding Standards and Practices for All Appropriate Inquiries (70 *Federal Register* [FR] 66070, May 1, 2005; 40 Code of Federal Regulations [CFR] Part 312) (AAI Rule). EPA has stated that the ASTM E2247-16 is consistent with the AAI Rule (82 FR 28040, June 20, 2017). Specifically, this final rule amends the AAI Rule at 40 CFR Part 312 to reference ASTM E2247-16 and make clear that persons conducting all appropriate inquiries may use the procedures included in this standard to comply with the AAI Rule.

The purpose of this Phase I assessment is to inform the County of Fresno's consideration of the potential environmental impacts of the proposed project, in part by evaluating the potential for Recognized Environmental Conditions (RECs) at the subject properties. Three types of RECs are defined by ASTM E2247-16, as listed below. The term *Recognized Environmental Conditions (RECs)* means:

> (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.

In addition, the ASTM standard defines the two categories cited below.

The term *Historical Recognized Environmental Conditions (HRECs)* means:

> A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.

For a past REC to be considered an HREC, it must:

- Have already been remediated (or meet current standards without remediation);
- Not require use restrictions or engineering controls (e.g., cap, subslab depressurization system); and
- Meet current standards.

If the REC has use restrictions or engineering controls, the REC may be designated as a Controlled Recognized Environmental Condition (CREC), as defined below. Unlike HRECs, a CREC will be listed in the conclusions section of the Phase I assessment, along with other RECs. The purpose of this new category is to bring continuing obligations, such as use restrictions, maintenance requirements, and reporting requirements, to the forefront. The term *CREC* means:

> A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.

RECs, HRECs, and CRECs are not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. In addition, business environmental conditions (e.g., subsurface crude oil pipelines) are noted but not considered RECs, HRECs, or CRECs.

The ASTM Standard practice also defines a “business environmental risk” as a risk that can have a material environmental impact on the planned use of a property.

2.2 Scope of Services

The following sections describe ESA's work scope:

- Section 2.0, *Introduction*, discusses the purpose for performing the Phase I assessment; the standards and definitions used for the Phase I assessment; and significant assumptions and limitations.

- Section 3.0, *Site Description*, provides general information concerning the location, description, and current and proposed uses of the subject properties, along with a description of any structures and improvements at the time of ESA's assessment.

- Section 4.0, *Records Review*, includes ESA's review of various databases available from federal, State, and local regulatory agencies regarding hazardous materials use, storage, or disposal within or near the subject properties considered in this assessment. Copies of relevant documents are included in the appendices of this report. Physical setting sources such as topography, soil, and groundwater conditions are described.

- Section 5.0, *Site Reconnaissance*, describes ESA's observations during reconnaissance of the subject properties. The methodology used and limiting conditions are described.

- Section 6.0, *User-Provided Information*, documents information provided by the interviews conducted with the owner or property manager.

- Section 7.0, *Findings and Opinions*, presents ESA's findings and professional opinions regarding the information contained in this report. It provides ESA's conclusions regarding the presence of RECs connected with the subject properties and data gaps, if any, that could affect the recognition of RECs.

- Section 8.0, *Report Authors and Qualifications*, provides the signatures and qualifications of the report authors.

- Section 9.0, *References*, is a summary of the resources used to compile this report that supplement the information provided in the appendices.

- The appendices contain certain pertinent documentation regarding the subject properties. Appendices A and B contain the report of regulatory agency database search results, as well as historical aerial photographs and historical topographic maps, City directories and fire insurance maps were not ordered because such records would not be produced for these rural properties.

2.3 Limitations and Exceptions

No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs, HRECs, and CRECs in connection with a property. Conformance of this Phase I assessment with ASTM E2247-16 reduces, but does not eliminate, uncertainty regarding the potential for RECs, HRECs, and CRECs in connection with the subject property. While ESA has made every effort to discover and interpret available historical and current information on the property assessed within the time available, some potential always remains for undiscovered contamination to be present. ESA's report is a best-efforts collection and interpretation of available information, and cannot be considered wholly conclusive. This report and the associated work were provided in accordance with the principles and practices generally employed by the local environmental consulting profession. This is in lieu of all warranties, expressed or implied. No other warranty is expressed or implied. ASTM E2247-16 is included in this report by reference.

This Phase I assessment is based primarily on historical research, a database review, and a site reconnaissance of accessible areas. This Phase I assessment does not include "non-scope issues" as specified by ASTM E2247-16, such as surveys for the presence of the following items on or in the vicinity of the subject property: asbestos-containing materials, polychlorinated biphenyls (PCBs), radon, effects on indoor air quality, lead-based paint, lead in drinking water, industrial hygiene, health and safety, regulatory compliance, and high-voltage lines.

The conclusions presented are professional opinions based solely upon indicated data described in this report, visual site and vicinity observations, and the interpretation of the available historical information and documents reviewed, as described in this report. Unless ESA has actual knowledge to the contrary, information obtained from interviews or provided to ESA is assumed to be correct and complete. ESA does not assume any liability for information that was misrepresented to ESA by others or for items not visible, accessible, or present on the parcel during the time of the site reconnaissance. The conclusions are intended exclusively for the purpose outlined herein and the site location and project indicated. Any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of the user.

Opinions and recommendations presented herein apply to the site conditions existing at the time of this Phase I assessment and cannot necessarily apply to site changes of which ESA is not aware and has not had the opportunity to evaluate. Changes in the conditions of the parcel may occur with time due to natural processes or the works of man on the property or adjacent properties. Changes in applicable standards may also occur as a result of legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond ESA's control. Opinions and judgments expressed herein are based on ESA's understanding and interpretation of current regulatory standards, and should not be construed as legal opinions.

SECTION 3.0
Site Description

3.1 General Setting and Location

The subject properties consists of a portion of the City of Mendota wastewater treatment facility and some Westlands Water District agricultural property in Fresno County, as shown on Figures 1, 2, and 3, and as described below:

- The City of Mendota wastewater treatment facility portion of the subject properties is located within the City's existing wastewater treatment plan at 2699 Bass Avenue. The city zoning for this property is Public Facilities (P-F). Assessor's parcel numbers (APN) include all of 01305073ST (dried sludge pile); 01305058ST (lift station); 01305068ST (solar panels and north to south road).

- The Fresno County agricultural portion of the subject properties is generally bounded by West American Avenue to the north, an unnamed road to the west, Manning Avenue to the south, and State Route 33 (also referred to as South Derrick Avenue) to the east. The county zoning for this area is Exclusive Agricultural, 20-acre minimum parcel size (AE-20). APN numbers include 028-140-32ST, 028-140-36ST, 028-140-37ST, 028-140-23TT, the eastern half of 028-140-38ST, 028-170-42ST, 028-170-44ST, 028-170-46ST, 028-170-61ST, 028-170-48ST, 028-170-60ST, 028-060-32ST, 028-170-41ST, 028-170-43ST, 028-170-45ST, 028-170-47ST, 028-170-17TT, 028-170-18TT, 028-060-33ST, 028-060-41ST, 028-160-20ST, 028-160-22ST, 028-160-19ST, 028-160-16ST, and 028-160-17ST.

3.2 Current and Proposed Land Uses

The proposed wastewater treatment facility is within the boundaries of the existing Mendota WWTP, a sewage treatment facility. The proposed project would construct a tertiary treatment facility at the southern end of the property to provide recycled water for the hydrogen fuel production facility.

The proposed solar and hydrogen facilities are currently farmland that is fallow or recently plowed; no active farming was observed. A hydrogen fuel production facility powered by a solar energy generation facility would be constructed on this property.

SECTION 4.0
Records Review

The purpose of the records review is to obtain and examine records that could help to evaluate potential RECs, HRECs, and CRECs in connection with the subject properties. This section documents the database records search and the evaluation of other records, summarizes information provided by the property owners, and describes the physical setting of the subject properties.

4.1 Standard Environmental Record Sources

Federal, State, and local regulatory agencies publish databases of businesses and properties that handle hazardous materials or hazardous waste, including those properties with a known release of hazardous substances to soil and/or groundwater. These databases are available for review and/or purchase at the regulatory agencies, or the information may be obtained through a commercial database service. ESA contracted with a commercial database service to perform the government records database search for listings within the appropriate ASTM standard minimum search distance (EnviroSite 2022). A detailed description of the types of information in each database reviewed and the agency responsible for compiling the data is included in the Government Records Report provided as Appendix A, which includes a list of acronyms for the individual databases.

ESA evaluated the listings with regard to the nature of potential chemicals of concern and the extent of known releases. In general, reported or potential releases likely to affect a property would include those located on or within a 1/8-mile radius of the subject property. ESA also considered additional factors such as chemical properties, regional knowledge of the site vicinity, groundwater flow direction, and available past regulatory documentation as part of the REC evaluation.

4.2 Results of Regulatory Records Search

The nine sites identified within the ASTM-specified search radius in the surrounding area are discussed below. The site locations are shown on maps with the Government Records Report in Appendix A. In addition, to augment the regulatory records search, the State Water Resources Control Board (SWRCB) GeoTracker and California Department of Toxic Substances Control (DTSC) EnviroStor websites were accessed to review documents that describe the locations and status of sites with environmental issues.

Proposed Mendota Wastewater Treatment Facility Property

The proposed Mendota wastewater treatment facility site has the five listings summarized below.

B3 and B6, Mendota wastewater treatment facility - In addition to the operating permits, the Mendota wastewater treatment facility is listed for certain violations in 2002, 2010, 2011, and 2012 regarding the discharges to the evaporation and percolation ponds. The operating violations are not cited as affecting the proposed Mendota wastewater treatment facility site. The Mendota WWTP is currently in compliance, no violations have been reported since then, and this site is not considered a REC.

7, Silver Creek Packing – This listing is for a former Leaking Underground Storage Tank (LUST) Cleanup Site at the Silver Creek Packing facility, located about 2300 feet to the northwest. This site was cleaned up and the Regional Water Quality Control Board (RWQCB) issued a no further action letter dated October 9, 1996. The no further action letter indicates that the RWQCB has concluded this site does not pose a risk to people or the environment and this site is not considered a REC.

8, Mendota School Site – This listing is for a Department of Toxic Substances Control (DTSC) investigation of a school located about 3,350 feet to the north for possible pesticides in soil. The investigation did not detect pesticides at concentrations above regulatory action levels, the DTSC issued a no further action letter, and this site is not considered a REC.

9, National Public Lands – Bakersfield Field Office – This listing is for a federal conservation area to the east and not for the release of hazardous materials. This site is not considered a REC

In summary, none of the above-summarized listings are on or close enough to the proposed Mendota wastewater treatment facility site to be able to affect said property. Therefore, none of the listings qualify as a REC, HREC, or CREC.

Proposed Hydrogen Fuel Production Property

The proposed hydrogen fuel production facility property has the four listings summarized below.

A1, West American Ave and South Ohio Ave – This listing is for an incident where vandals cut down three power poles and the transformers broke and spilled about 85 gallons of transformer oil onto soil on July 3, 2012. The affected soil was contained and removed. Also note that this date is well after polychlorinated biphenyls (PCBs) were banned for use in power pole transformers and the site reconnaissance indicated that the transformers have blue non-PCB stickers, meaning the oil would not have contained PCBs. Therefore, this spill is not considered a REC because the oil is not considered a hazardous material.

A2, Britz Fertilizers Property – This listing is for the investigation of several areas with above-ground diesel storage tanks and associated contaminated soil and groundwater. Relative to the proposed project, the area of the northwest corner of West Adams and Derrick Avenues was designated as Area 3. However, further research indicates that this location is actually at the northeast corner of West Lincoln Avenue and South Ohio Avenue (see Dump #2 on Figure 3; Krazan 2002). One 12,000-gallon diesel above-ground storage tank and one 8,000-gallon diesel above-ground storage tank were removed in 2002, along with 1,400 cubic yards of contaminated soil. Groundwater had a sheen of diesel fuel. The RWQCB issued a no further action letter dated

January 17, 2003. The no further action letter indicates that the RWQCB has concluded this site does not pose a risk to people or the environment. Because of the prior cleanup and the location within the project boundaries, this listing is considered an HREC.

4, 1X North County Bank, SW Corner of Jefferson and Murietta – This listing is mislocated on the records search map. West Jefferson Avenue is located about 3 miles north of the proposed hydrogen fuel production facility property, too far away to affect the property and outside of the ATSM-required search distances. This site is not considered a REC

5, RE Adams East LLC – This listing is for permits for electric power distribution for the solar project located on the southeast corner of Highway 33 and West South Avenue. No violations are listed and this site is not considered a REC.

In summary, none of the above-summarized listings relative to the proposed hydrogen fuel production facility property qualify as a REC or CREC. The Britz Fertilizers Property is considered a HREC because although the location experienced a spill, the tanks and contaminated soil have been removed and the regulatory agency issued a no further action letter indicating the regulatory agency does not consider this site to be a risk to people or the environment.

Orphan Sites

Sites not plotted due to poor or inadequate address information are referred to as "orphan sites" or "unmappable properties." The records search identified 30 orphan sites. However, examination of the partial location information indicates that none of the orphan sites are on or near the subject properties and are too far away to be able to be able to affect the subject properties.

4.3 Other Records Reviewed

The regulatory agency records search also provides historical aerial photographs and historical topographic maps. Fire insurance maps and city directories were not ordered because such records would not be produced for a rural property. The search results are discussed below.

Historical Aerial Photographs

Historical aerial photographs are available for the years 1946, 1955, 1960, 1965, 1971, 1975, 1978, 1982, 1985, 1987, 1993, 1995, 1998, 2005, 2009, 2010, 2012, 2014, 2016, 2018, and 2020, and are included in Appendix B. The red box on the aerial photographs points to the location of the proposed wastewater treatment facility and the proposed hydrogen fuel production facility. Note that the aerial photograph provider required a single project outline for the hydrogen fuel production facility, the solar facility, and the water treatment facility. This resulted in a long narrow line connecting the water treatment facility site to the solar and hydrogen facilities site. The connecting line is an artifact of the single project outline requirement and does not indicate a direct connection (e.g., a pipeline) between the two locations.

Proposed Mendota Wastewater Treatment Facility Property

In the **1946 through 1993 aerial photographs**, the proposed Mendota wastewater treatment facility property appears to be farmland. The 1946 aerial photograph shows recent plow lines. The 1955 aerial photograph shows irrigation trenches winding across the property. The 1960, 1965 and 1971 aerial photographs show a uniformly featureless look that suggests a hay field. The 1975 and 1978 aerial photographs show parallel lines suggestive of a row crop. The 1982 aerial photograph is of poor quality but the use still appears to be agricultural. The 1985 aerial photograph is of poor quality and the use of the rest of the property is unclear. The 1987 aerial photograph is of poor quality but does show the current north-south dirt road that bisects the property. The use of the rest of the property is unclear but vague parallel lineation lines suggest continued agricultural use. The 1993 aerial photograph is of moderate quality but does suggest continued agricultural use.

The **1995 through 2005 aerial photographs** are of moderate quality and show delineations that match the outline of the current wastewater treatment ponds along the north side of the subject property. The subject property was still in agricultural use. The 2005 aerial photograph shows the wastewater treatment ponds along the north side of the subject property in active use. The subject property appears to be in agricultural use.

The **2009 aerial photograph** shows the current wastewater treatment pond along the east side of the subject property. The subject property appears to be in use for the placement of dried sludge, as indicated by Mr. Gonzalez in Section 6.0, *User-Provided Information*.

The **2010 aerial photograph** shows the sludge pile on most of the subject property. The eastern portion shows the construction of the lift station in progress, as indicated by Mr. Gonzalez in Section 6.0, *User-Provided Information*.

The **2012 through 2018 aerial photographs** show the sludge pile on most of the subject property and the lift station in the northeast corner.

The **2020 aerial photograph** shows the sludge pile on most of the subject property, the lift station in the northeast corner, and the solar panel array along the eastern portion of the subject property, all consistent with the current subject property configuration and use.

Proposed Hydrogen Fuel Production Property

In the **1946 through 1965 aerial photographs**, the proposed solar and hydrogen facilities subject property is entirely farmland. Some areas are in active agricultural use, some areas have been recently plowed, and some areas are fallow. Dirt roads cross the subject property in their current alignments. One farm residence and associated smaller structures is present on the northeast corner of West Lincoln and South Ohio Avenues at the location shown on Figure 3. No other structures are visible elsewhere. Some aerial photographs show occasional smaller objects that are likely farm equipment in scattered locations.

The **1971 aerial photograph** is of moderate quality and the farm house may have been removed between 1965 and 1971. A as shown on Figure 3, a small area on the north side of West Adams Road has several structures suggestive of farm worker housing. No other changes are apparent.

The **1975 aerial photograph** shows the farm house has been removed. A small shed is visible at the location of a concrete pad that is still present at the former farm house location. In addition, smaller objects are located near the shed. No other changes are apparent.

The **1978 through 1995 aerial photographs** are of poor to moderate quality and do not show obvious changes.

The **1998 aerial photograph** is of better quality and shows no obvious changes.

The **2005 aerial photograph** shows the Britz Fertilizers Property on the plot of the former farm house.

The **2009 aerial photograph** shows the outline of the Britz Fertilizers Property shown on Figure 3 but the structures have been removed.

The **2010 through 2020 aerial photographs** show no significant changes.

Historical Topographic Maps

Historical topographic maps are available for the years 1921, 1922, 1923, 1924, 1946, 1947, 1956, 1962, 2012, 2015, and 2021, and are included in Appendix B. Note that the location of the present day residence on the subject property is identified with a red box.

Proposed Mendota Wastewater Treatment Facility Property

The **1921 through 1947** topographic maps show the proposed Mendota wastewater treatment facility subject property and the surrounding area as undeveloped.

In the **1956, 1962, 2012, and 2015** topographic maps show sewage treatment ponds further north but not adjacent to the subject property. The 1956, 2012, and 2015 topographic maps show the existing flood control channel along the west side of the subject property.

In the **2021** topographic map shows the subject property with sewage treatment ponds on the north and east sides of the property. No improvements are depicted on the subject property.

Proposed Solar and Hydrogen Fuel Production Facilities

The **1922 and 1923** topographic maps show proposed solar and hydrogen fuel production facilities subject property as undeveloped with no structures. Highway 33 is present along the east side of the subject property. The surrounding area is also undeveloped. Two diagonal dirt roads that are no longer present are shown crossing the subject property. The Levis Oil Pumping Station is shown along the western side of the subject property (see Figure 3). Pipelines to and from the station are not depicted.

The **1946 and 1947** topographic maps show four structures and one small square pond at the location of the former farm house shown on Figure 3. Two structures are depicted on the northwest corner of West South Avenue and Highway 33. The current north-south and east-west roads are shown; both diagonal roads are no longer shown.

The **1956** topographic map shows the farmworker housing observed in previously discussed aerial photographs along the north side of West Adams Avenue.

The **2012** topographic map uses the recent topographic map format that shows minimal details and no structures.

4.4 Previous Phase I Environmental Site Assessment

Fresno County provided a 2019 Phase I environmental site assessment that was conducted on behalf of Westlands Water District that included all of the subject property for the proposed hydrogen fuel production facility (AECOM 2019). Almost all of the information in the previous Phase I assessment has been covered and updated in this Phase I assessment. In addition, the previous Phase I assessment added the following information:

- Westlands either dry farms or leaves the proposed hydrogen fuel production subject property fallow. None of the existing irrigation infrastructure is used. Prior to Westlands acquiring the subject property in 2003, it was farmed primarily for cotton.
- Fire insurance maps were not prepared for this rural property.
- An environmental lien search indicated there were no environmental liens or land use limitations associated with the subject property.

4.5 Physical Setting

The following sections provide information about the physical setting of the subject property (Envirosite 2022). Geotechnical information is not a required element of ASTM E2247-16 Phase I assessments and is not included in this Phase I assessment.

Topography. The proposed Mendota wastewater treatment facility property is within the Mendota Dam, California, 7.5-minute quadrangle at elevations that range from 150 feet above mean sea level on the dirt roads to 170 feet above mean sea level at the top of the dried sludge pile. The proposed hydrogen fuel production property is within the Coit Ranch and Levis California, 7.5-minute quadrangles at elevations that range from 183 to 202 feet above mean sea level, gently sloping to the east.

Geology, Soils, and Hydrology. The surface geology at the proposed Mendota wastewater treatment facility property and the proposed hydrogen fuel production property consist of Pliocene to Holocene (i.e., 5.3 million years ago to the present time) unconsolidated and semi-consolidated, nonmarine alluvium, lake, playa, and terrace deposits.

Flood Hazard. FEMA has designated the proposed Mendota wastewater treatment facility property as within the 100-year flood zone, which means the area has a 1 percent chance of being flooded in any given year. The proposed hydrogen fuel production property is within Zone X, which is not within a FEMA designated flood zone.

SECTION 5.0
Site Reconnaissance

5.1 Methodology and Limiting Conditions

Michael Burns, PG, CEG, CHG, from ESA conducted site reconnaissance on April 29 and September 30, 2022, to assess present conditions. Access to the proposed Mendota wastewater treatment facility was provided Mr. Cristian Gonzalez, the City Manager for the City of Mendota. The proposed hydrogen fuel production property is located along Highway 33 and is open inactive farmland with no fences or occupants. Weather at the time of site reconnaissance was sunny and windy. The site conditions discussed below are limited to readily apparent environmental conditions observed. Items of interest are shown on Figure 1, *Project Area*, and Figure 2, *Proposed Mendota Wastewater Treatment Facility*, and Figure 3, *Proposed Solar Energy Generation and Hydrogen Fuel Production Facilities*.

5.2 General Site Setting

The proposed Mendota wastewater treatment facility consists of a triangular property with a mound of dried sludge that occupies most of the property. An array of solar panels is located along the eastern side and a sewage lift station is located in the northeast corner of the property. Dirt roads are along the western and northern sides of the property and one dirt road bisects the property north to south.

The proposed hydrogen fuel production facility property consists almost entirely of open flat inactive farmland with a few dirt roads, a drainage ditch along some of the west side of Highway 33, and occasional tile drain sump pumps. The surrounding area is also predominantly farmland, with a few scattered residences and two existing solar facilities.

The observed conditions, along with photographs, are described below.

5.3 Site Observations

Proposed Mendota Wastewater Treatment Facility Property

The observations for the proposed Mendota wastewater treatment facility property are discussed below. Items of interest are identified on Figure 2, *Proposed Mendota Wastewater Treatment Facility.*

Dried Sludge Pile

As discussed in Section 6.0, *User-Provided Information*, most of this subject property has been used for the placement of sludge from the wastewater treatment ponds since at least June 2009. The sludge pile is about 15 to 20 feet high, and was entirely dry and odorless on the date of the site inspection. The photograph below shows the sludge pile from the north with pipes and sewage pond agitators stored along the north side of the dried sludge pile.

The top surface of the sludge pile has scattered vegetation, as shown in the photograph below. The sewage lift station is to the upper right and the active sewage treatment ponds are in the distance. No unusual stains, discolorations, or stressed vegetation were noted. The material texture ranged from sand to silt to clay sized particles with no larger chunks of any sort. It appears that the wind has blown most of the clay-sized dust materials away from the top surface of the pile.

The sides of the dried sludge pile are chunky with a much higher content of clay-sized particles, as shown in the photographs below. No unusual stains or discolorations were noted.

Pipes, sewage treatment pond agitators, and miscellaneous materials are present along the north side of the sludge pile, as shown in the photographs below. No stained soil, stressed vegetation, unusual odors, or chemical containers were noted. The lift station and active treatment ponds are in the distance in the top photograph.

Lift Station

As discussed in Section 6.0, *User-Provided Information*, the sewage lift station was constructed in 2010 and 2011. No oil stains or unusual odors were noted on the concrete transformer pads, as shown in the photographs below.

Solar Panel Array

The photographs below show the solar panel array along the east side of the property with an electrical panel at the northern end. No oil stains, discolored soil, or stressed vegetation was observed around the electrical panel or anywhere else around the solar panels.

Proposed Solar and Hydrogen Fuel Production Facilities

The observations for the proposed solar and hydrogen fuel production facilities sites are organized by intersections generally from north to south, as discussed below. The roads and items of interest are identified on Figure 3.

West American Avenue and Highway 33

The photographs below are from the corner of Highway 33 and the unpaved West American Avenue. The farmlands in this area were fallow at the time of the site inspection. Overhead power lines run along the west side of Highway 33. One circular enclosed concrete structure assumed to an irrigation valve was observed but with no equipment. A small rectangular area with some trees and brush that appears to have not been farmed was observed southwest of this intersection. No stained soil, stressed vegetation, unusual odors, or chemical containers were noted.

Dump Area #1

The photographs below and one the next page show an area where discarded debris and trash has been dumped by an area of some trees and brush. The discarded materials include two broken halves of a 1,000 gallon plastic pesticide tank, small refrigerator, a stove, several empty paint cans and plastic bottles, mattresses, a couch and chairs, rigs, lumber, and miscellaneous household trash. No stained soil, stressed vegetation, unusual odors, or chemical containers were noted. The discarded materials are considered a *de minimus* condition because no hazardous materials containers were observed and the discarded materials could be properly disposed of at any non-hazardous waste landfill.

Highway 33 In Between West American and West Lincoln Avenues

The photographs below show one tile drain sump and a set of transformers on a power pole along the west side of Highway 33 in between West American and West Lincoln Avenues (see Figure 3 for locations). The power transformers had the standard blue stickers indicating the transformers do not contain PCB-containing cooling oil. No stained soil, stressed vegetation, unusual odors, or chemical containers were noted.

West Lincoln Avenue and Highway 33

The photographs below are from the corner of Highway 33 and the unpaved West Lincoln Avenue. As with the rest of the proposed hydrogen fuel production property, the farmlands in this area were fallow at the time of the site inspection. A drainage ditch is present along the west side of Highway 33. The ditch has tumbleweeds and discarded trash consisting of roof shingles, tires, broken concrete pieces, wheel rims, wood, and cloth. However, no stained soil, stressed vegetation, unusual odors, or chemical containers were noted. The discarded materials are considered a *de minimus* condition because no hazardous materials containers were observed and the discarded materials could be properly disposed of at any non-hazardous waste landfill.

Dump Area #2

A dump area consisting of three of the four corners at the intersection of West Lincoln and South Ohio Avenues is present at the location shown on Figure 3. As discussed above in the *Historical Aerial Photographs* section, a farm house and then the Britz Fertilizers Property were previously present at the northeast corner from before 1946 and removed by at least 1998. Other than the concrete pad for the former shed, no aboveground structures were observed. Discarded debris and trash are present on three of the four corners at this intersection, as discussed below. The discarded materials are considered a *de minimus* condition because no hazardous materials containers were observed and the discarded materials could be properly disposed of at any non-hazardous waste landfill.

Northeast Corner

The photographs below and on the next page are of an 80-foot-diameter pit that contains discarded debris and trash consisting of a GMC Scottsdale truck-based station wagon, a refrigerator, broken toilets, mattresses, empty buckets and bottles, broken-up furniture and lumber, children's toys, rugs, household trash, empty boxes, and miscellaneous debris. At least 28 small soil mounds are present just west of the pit that may be soil excavated from the pit or may cover buried materials of unknown composition. Some small areas of stained soil were observed but are not extensive or deep and are considered a *de minimus* condition.

The concrete pad shown below is present at the location of the former Britz Fertilizers Property, as discussed above in the *Historical Aerial Photographs* section. The pad has two abandoned active bee boxes, along with some trash and debris. Darkened stained soil is present around the northeast corner of the pad but is not extensive or deep.

The photographs below are of a half-full plastic drum with what appears to be used motor oil. Bullet holes have punctured the drum in numerous places, some of which are leaking oil to the ground. This condition is considered a *de minimus* condition because the used motor oil could be recycled at any oil recycling facility.

As shown in the photographs below, miscellaneous trash and debris is scattered elsewhere on this northeast corner of the intersection that included a refrigerator, a stove, concrete beams, lumber, tarps, mattresses, tires, empty buckets and bottles, broken-up furniture and lumber, rugs, household trash, empty boxes, and miscellaneous debris. No containers with chemicals were observed.

Northwest Corner

As shown in the photographs below, miscellaneous trash and debris have been dumped into the ditch on the northwest corner of the intersection that included broken furniture and lumber, dead sheep carcasses, a refrigerator, mattresses, tires, empty buckets and bottles, rugs, household trash, empty boxes, and miscellaneous debris. Some stained soil was observed but is considered a *de minimus* conditions because the staining is not extensive or deep.

Southeast Corner

As shown in the photographs below, miscellaneous trash and debris have been dumped into an excavated pit on the southwest corner of the intersection that included tires, broken furniture and lumber , dead sheep carcasses, a refrigerator, a microwave, mattresses, empty buckets and bottles, rugs, household trash, empty boxes, and miscellaneous debris.

In Between West Lincoln and West Adams Avenues

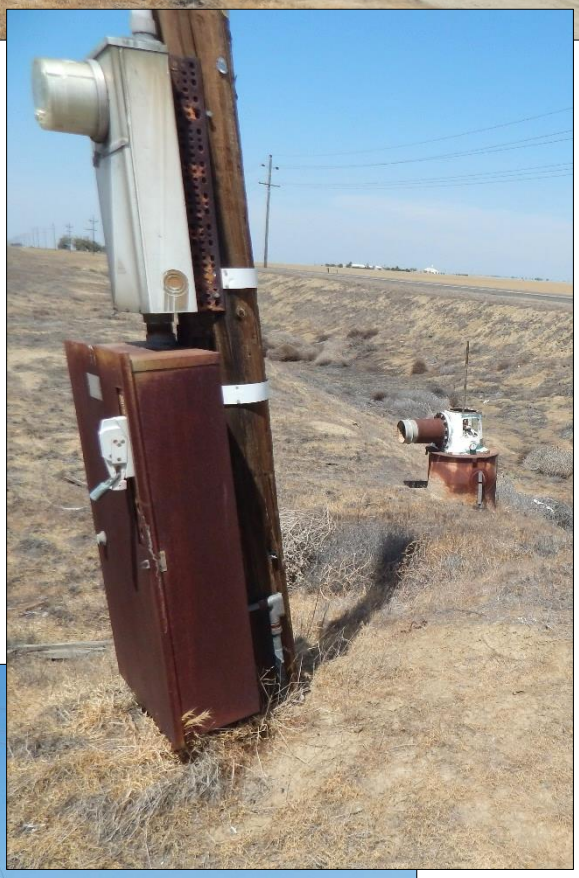
The photographs below show an inactive tile drain sump along the west side of Highway 33 in between West Lincoln and West Adams Avenues (see Figure 3 for location). The sump is located at the southern end of the previously noted ditch along the west side of Highway 33. The sump was disconnected and the electrical power box wasn't active. Minor pump oil staining was observed on the wood blocks on either side of the sump. However, the extent of the staining was limited to the wood blocks and the surrounding soil was not stained, did not have an unusual odor, and the adjacent vegetation was not stressed. The staining is considered a *de minimus* condition. A circular concrete vault for a tile drain was observed just west of the inactive sump.

West Adams Avenue and Highway 33

The photographs below are from the corner of Highway 33 and the paved West Adams Avenue. The farmlands north of West Adams Avenue were fallow at the time of the site inspection (top photograph); the farmlands to the south had been recently plowed (bottom photograph). The proposed hydrogen fuel production facility would be located on the northwest corner of this intersection (i.e., the fallow area). No stained soil, stressed vegetation, unusual odors, or chemical containers were noted.

West South Avenue and Highway 33

The photographs below are from the corner of Highway 33 and West South Avenue. The farmlands in this area had been recently plowed. The RE Adams East Solar Project, including a solar panel array and electrical substation, are located on the southeast corner of this intersection (see Figure 3). Power lines run east to west along the south side of West South Avenue. One disconnected tile drain sump pump and power pole are located on the northwest corner of this intersection. No stained soil, stressed vegetation, unusual odors, or chemical containers were noted.



Dump Area #3

The photograph below shows a pit at the southeast corner of South Ohio and West South Avenues where discarded debris and trash has been dumped. The discarded materials include tires, empty cans, lumber, and miscellaneous household trash. Much of the material has been burned. No chemical containers were noted. The discarded materials are considered a *de minimus* condition because no hazardous materials containers were observed and the discarded materials could be properly disposed of at any non-hazardous waste landfill.

Proposed Solar Substation

As shown on Figure 3, a solar substation would be constructed on the southwest corner of the proposed solar facility. As shown in the photographs below, the area is fallow farmland that had been recently plowed. No stained soil, stressed vegetation, unusual odors, or chemical containers were noted. A pond is across the road outside of the project footprint.

Proposed Electrical Service Line to the South

As shown on Figure 3, an electrical service line is proposed to run from the solar substation at the southwest corner of the proposed solar facility south to the existing PG&E-owned and operated Tranquillity Switching Station along an unnamed dirt road. The top photograph below is looking north from the paved Manning Avenue toward the proposed solar substation. The field on the right (east) is wheat); the field on the left (west) is fallow. The dirt road has one active well head at the northeast corner with no pump oil leaks were observed at the base. Power poles run north-south along the east side of the road. The bottom photograph is looking south toward the RE Tranquillity Switching Station. The southeast corner has grapes and the southwest corner is fallow. No stained soil, stressed vegetation, unusual odors, or chemical containers were noted.

5.4 Results of Site Reconnaissance

Several areas of discarded debris and trash but are considered a *de minimus* condition because no hazardous materials containers were observed and the discarded materials could be properly disposed of at any non-hazardous waste landfill. The one drum of motor oil could be recycled at any oil recycler. There were no observations of underground or aboveground storage tanks, waste ponds, unusual odors, or stressed vegetation. Occasional small areas of stained soil were observed but are considered a *de minimus* condition because the staining was not extensive or deep. Minor oil staining was observed on wood supports for an inactive tile drain sump pump but are considered a *de minimus* condition because no oil staining was observed on the adjacent soil and the adjacent vegetation was not stressed. **No RECs were observed relative to hazardous materials, hazardous waste, or chemical use, storage, or disposal**.

SECTION 6.0
User-Provided Information

Mr. Cristian Gonzalez, the City Manager for the City of Mendota, was interviewed on April 28, 2022, regarding the Mendota WWTP property upon which a tertiary sewage treatment facility would be constructed as part of the Heartland Hydrogen Project. He has been with the City for 12 to 13 years. The existing Mendota WWTP ponds have been built over time starting from the north with new ponds added over time to the south. The earliest ponds predate Mr. Gonzalez; GoogleEarth shows some ponds in existence as of 1985; the proposed tertiary sewage treatment facility and adjacent areas were farmland in 1985. GoogleEarth shows treatment ponds adjacent and north of the Project site as of July 2004. Mr. Gonzalez stated that dried sludge from the treatment ponds has been placed on the project site since as early as June 2009 and continues to the present. Construction of the existing sewage lift station located in the in the northeast corner of the proposed tertiary sewage treatment facility was started as of August 2010 and completed as of April 2011.

Fresno County provided a 2019 Phase I assessment prepared for the Westlands Water District that included all of the Westlands Water District subject properties for the proposed hydrogen fuel production facility (AECOM 2019). The previous Phase I added the following information:

- Westlands either dry farms or leaves the subject property fallow. None of the irrigation infrastructure is used. Prior to Westlands acquiring the Westlands Water District subject property, it was farmed primarily for cotton.

- Fire insurance maps were not prepared for this rural property.

- An environmental lien search indicated there were no environmental liens or land use limitations associated with the subject property.

Ms. Jennifer Montoya stated that Westslands Water District acquired the subject properties for the proposed hydrogen fuel production facility in 2003.

SECTION 7.0
Findings and Opinions

7.1 Findings and Opinions

A commercial government records database service searched relevant federal, State, and local regulatory agency lists for listings of the subject properties assessed in this report, and for nearby properties within the appropriate ASTM 2247 standard search distances. In addition, regulatory agency websites were checked to provide additional information. The records search returned nine listings. The listings at or near the subject properties are not considered able to affect the subject properties. **The search of regulatory records did not reveal any RECs or CRECs. The Britz Fertilizers Property, located within the proposed solar facility, is considered an HREC because the spill at this location has been cleaned up to the satisfaction of the overseeing regulatory agency.**

The subject properties were inspected on April 29 and September 30, 2022. The subject properties consist of two non-contiguous sets of parcels referred to as the proposed Mendota wastewater treatment facility property and the proposed hydrogen fuel production property (includes both the proposed solar energy generation and hydrogen fuel production facilities). The proposed Mendota wastewater treatment facility property has a dried sludge pile, a sewage lift station, and a solar panel array. **No RECs were observed relative to hazardous materials, hazardous waste, or chemical use, storage, or disposal**.

The proposed solar and hydrogen fuel production facilities site consist mostly of fallow or recently plowed farmland; no active farming was observed. Three areas, referred to as Dump Areas 1, 2, and 3, have been used for the illegal dumping of a truck, a drum of used motor oil, refrigerators, microwaves, toilets, mattresses, tires, empty buckets and bottles, broken-up furniture and lumber, children's toys, rugs, household trash, empty boxes, dead sheep, and miscellaneous debris and trash. The discarded debris and trash are considered a *de minimus* condition because no hazardous materials containers were observed and the discarded materials could be properly disposed of at any non-hazardous waste landfill. The one drum of motor oil could be recycled at any oil recycler. There were no observations of underground or aboveground storage tanks, waste ponds, unusual odors, or stressed vegetation. Occasional small areas of stained soil were observed but are considered a *de minimus* condition because the staining was not extensive or deep. Minor oil staining was observed on wood supports for an inactive tile drain sump pump but are considered a *de minimus* condition because no oil staining was observed on the adjacent soil and the adjacent vegetation was not stressed. **No RECs were observed relative to hazardous materials, hazardous waste, or chemical use, storage, or disposal**.

The city manager for the City of Mendota was interviewed regarding the history of the proposed Mendota wastewater treatment property. **The results of the interview are incorporated into this Phase I assessment and did not indicate any RECs, HRECs, or CRECs.**

Fresno County provided a 2019 Phase I environmental site assessment as user-provided information for the proposed solar and hydrogen fuel production facilities. Westlands Water District either dry farms or leaves the proposed hydrogen fuel production subject property fallow. None of the existing irrigation infrastructure is used. Prior to Westlands acquiring the subject property in 2003, it was farmed primarily for cotton. An environmental lien search indicated there were no environmental liens or land use limitations associated with the subject property. **The results of the interview information did not indicate any RECs or CRECs. The prior Phase I assessment did corroborate the previously noted Britz Fertilizers property, located at the proposed hydrogen fuel production facility, as an HREC.**

7.2 Data Gaps

ESA attempted to obtain reasonably ascertainable information regarding the subject properties and the surrounding environs. There were no data gaps identified that could affect the identification of RECs, HRECs, or CRECs.

SECTION 8.0
Report Authors and Qualifications

8.1 Report Authors and Signatures

This section includes qualification statements of the environmental professionals responsible for conducting the Phase I assessment and preparing this report.

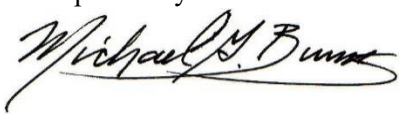
Mr. Michael Burns, PG, CEG, CHG, of ESA conducted the data review for the subject property, conducted the site reconnaissance, and prepared the Phase I environmental site assessment report. Mr. Burns has over 30 years of experience in environmental site investigations, characterizations, and assessments, including Phase I environmental site assessments.

The work conducted and the report written by Mr. Burns was reviewed by Mr. Luke Evans. Mr. Evans has over 16 years of experience in environmental site investigations, characterizations, and assessments, including Phase I Environmental Site Assessments.

Mr. Burns declares that, to the best of his professional knowledge and belief, he meets the definition of Environmental Professional as defined in 40 CFR §312.10. Mr. Evans declares that, to the best of his professional knowledge and belief, he meets the definition of Environmental Professional as defined in 40 CFR §312.10.

Mr. Burns has the specific qualifications based on education, training, and experience to assess a parcel of the nature, history, and setting of this parcel. With the assistance of Mr. Evans, he has developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

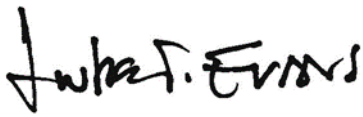
Principal Analyst/Reviewer:



September 2022

Michael G. Burns, PG #4532, CEG #1846, CHG #280

Senior Reviewer:



September 2022

Luke Evans, Program Manager

SECTION 9.0
References

AECOM, 2019. *Phase I Environmental Site Assessment, First Solar Heartland Project Site, Fresno County, California*. February 15.

ASTM. 2016. *E2247-16, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Assessment Process for Forestland or Rural Property.* ASTM International.

Envirosite. 2022. *Government Records Report, Route 33, Kerman, California 93630.* April 11, 2022.

Krazen & Associates, 2002. Results and Findings, Phase II Environmental Site Assessment, Proposed Purchase Properties – Britz Settlement, Westlands Water District, Fresno County, California. October 25.

APPENDIX A

Government Records Report

Government Records Report | 2022

Order Number: 70138

Report Generated: 04/11/2022

Project Name:

Project Number:

Route 33
Route 33
Kerman, CA 93630

2 Corporate Drive
Suite 450
Shelton, CT 06484
Toll Free: 866-211-2028
www.envirositecorp.com

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2022

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Envirosite Corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-21 Environmental Site Assessments standard.

SUBJECT PROPERTY INFORMATION:

ADDRESS:

Route 33
Route 33
Kerman, CA 93630

COORDINATES:

Latitude (North):	36.689912 - 36°41'23.7"
Longitude (West):	-120.391569 - -120°23'29.6"
Universal Transverse Mercator:	Zone 10N
UTM X (Meters):	733050.25
UTM Y (Meters):	4063645.08

ELEVATION:

Elevation:	192 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:

Subject Property Map: 36120-E4 Levis, CA
Most Recent Revision: 2015

Subject Property Map: 36120-F4 Coit Ranch, CA
Most Recent Revision: 2015

Subject Property Map: 36120-G3 Mendota Dam, CA
Most Recent Revision: 2015

MAP ID	SITE NAME	ADDRESS	DATABASE(S)	RELATIVE ELEVATION	DIRECTION / DISTANCE
A1	N R	WEST AMERICAN AVE AND SOU...	CHMIRS - CA		SP
A2	BRITZ FERTILIZERS PROPERTY (APN 0...	ADAMS AND DERRICK AVE.	CALEPA SITES - CA, FRS, SLIC REG 5 - CA		SP
B3	MENDOTA WWTF	BASS	CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA...		SP
4	1X NORTH COUNTY BANK	SW CORNER OF JEFFERSON AN...	HAZNET - CA, HIST HAZNET - CA, HWG - CA	Higher	S / 0.008 mi., 44 ft.
5	RE ADAMS EAST LLC	8008 S DERRICK AVE	ECHO, FRS, HWG - CA, RCRA_NONGEN	Higher	S / 0.027 mi., 143 ft.
B6	Mendota City | Mendota Solid Waste ...	Adjacent To East Mendota;...	SWF LF - CA	Lower	NNE / 0.051 mi., 272 ft.
7	SILVER CREEK PACKING	2158 BASS AVE | 2158 N BA...	CALEPA SITES - CA, CUPA_FRESNO COUNTY - ...	Lower	N / 0.434 mi., 2294 ft.
8	MENDOTA SCHOOL SITE C | MENDOTA...	N. OF BASS AVE. & E. OF B...	CALEPA SITES - CA, ENVIROSTOR - CA, NFA - C...	Lower	N / 0.634 mi., 3346 ft.
9	National Public Lands - Bakersfield Fi...	36.76302, -120.350407	FEDLAND	N/R	NNE / 0.962 mi., 5078...

SUBJECT PROPERTY SEARCH RESULTS:

The subject property was identified in the following records. For more information on this property, see Map Findings section on page 27.

SITE	DATABASE(S)	EPA ID
N/R WEST AMERICAN AVE AND SOUTH OHIO AVE MENDOTA, CA 93640	CHMIRS - CA	N/R
BRITZ FERTILIZERS PROPERTY (APN 028-10-37) ADAMS AND DERRICK AVE. FRESNO COUNTY, CA 92354	CALEPA SITES - CA, FRS, SLIC REG 5 - CA	N/R
SLIC REG 5 - CA - ID: SL0601938901	Status: Completed - Case Closed	Date: 2003-01-17
MENDOTA WWTF BASS MENDOTA | Mendota, CA 93640	CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA, FRS, RFR - CA	N/R
CIWQS 2 - CA - ID: Facility ID 273126 - ID: WDID N/R - ID: WDID 5D100109001 - ID: WDID 5D100109001	Status: N/A Status: N/R Status: Active Status: Active	Date: N/A Date: N/R Date: 2020-12-03 Date: 2016-07-19

SEARCH RESULTS:

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST: Releases listed in the EPA UST Finder database **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
7	*SILVER CREEK PACKING*	*2158 BASS AVE | 2158 N BASS*	*N / 0.434 mi., 2294 ft.*	*43*

LUST REG 5 - CA: Leaking underground storage tanks in Region 5: Modoc Shasta Lassen Plumas Butte Glen Colusa Lake Sutter Yuba Sierra Nevada Placer Yolo Napa (Northeast) Solano (West) Sacramento El Dorado Amador Calaveras San Joaquin Contra Costa (East) Stanislaus Toulumne Merced Mariposa Madera Kings Fresno Tulare Kern (Very small portions of San Benito and SanLuis Obispo) counties **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
7	*SILVER CREEK PACKING*	*2158 BASS AVE | 2158 N BASS*	*N / 0.434 mi., 2294 ft.*	*43*
	- ID: T0601900104	Status: Completed - Case Closed	Date: 1996-10-09	

FEDERAL RCRA GENERATORS LIST

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators **1 SITE FOUND WITHIN .25 MILE**

EQUAL/HIGHER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
5	*RE ADAMS EAST LLC*	*8008 S DERRICK AVE*	*S / 0.027 mi., 143 ft.*	*37*
	- ID: CAL000465246	Status: No Violation/Inspections	Date: N/A	

STATE- AND TRIBAL - EQUIVALENT CERCLIS

ENVIROSTOR - CA: Department of Toxic Substances Controls **1 SITE FOUND WITHIN 1 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
8	*MENDOTA SCHOOL SITE C | MENDOTA SCHOOL SITE*	*N. OF BASS AVE. & E. OF BARBOZA ST.*	*N / 0.634 mi., 3346 ft.*	*47*
	- ID: 60001768	Status: No Further Action	Date: Cleanup Date 2013-03-21	

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

SWF/LF - CA: Solid Waste Information System's facility listing of solid waste facilities and landfills **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
B6	Mendota City | Mendota Solid Waste Transfer Station | Pima-Gro/Delta Diablo Sanitation	Adjacent To East Mendota; T13s, R15e, S | Bass Ave, 1 1/2 Mi Ne Of Mendota | In S's7-10,14-18, T15s,r13emdm Panoche R	NNE / 0.051 mi., 272 ft.	*41*
	- ID: SWIS Number 10-CR-0034	Status: TBD (Pending Investigation)	Date: Permit Date N/R	
	- ID: N/R	Status: N/R	Date: N/R	
	- ID: SWIS Number 10-AA-0027	Status: Migration NULL	Date: Permit Date N/R	
	- ID: N/R	Status: N/R	Date: N/R	
	- ID: SWIS Number 10-AA-0175	Status: Proposed	Date: Permit Date N/R	
	There is an additional 1 status record, see site details.			

STATE RCRA GENERATORS LIST

HWG - CA: Hazardous waste generator listing **2 SITES FOUND WITHIN .25 MILE**

EQUAL/HIGHER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
4	*1X NORTH COUNTY BANK*	*SW CORNER OF JEFFERSON AND*	*S / 0.008 mi., 44 ft.*	*36*
5	*RE ADAMS EAST LLC*	*8008 S DERRICK AVE*	*S / 0.027 mi., 143 ft.*	*37*

OTHER ASCERTAINABLE RECORDS

FEDLAND: Federal Lands from the Protected Areas Database (PAD-US) **1 SITE FOUND WITHIN 1 MILE**

EQUAL/HIGHER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
9	National Public Lands - Bakersfield Field Office	36.76302, -120.350407	NNE / 0.962 mi., 5078 ft.	*52*

HAZNET - CA: Listing of hazardous waste manifests from when hazardous waste is transported from generators to permitted recycling treatment storage or disposal facilities by registered hazardous waste transporters **1 SITE FOUND WITHIN .25 MILE**

EQUAL/HIGHER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
4	*1X NORTH COUNTY BANK*	*SW CORNER OF JEFFERSON AND*	*S / 0.008 mi., 44 ft.*	*36*

OTHER ASCERTAINABLE RECORDS *(cont.)*

HIST HAZNET - CA: List of hazardous waste manifests from when hazardous waste is transported from generators to permitted recycling treatment storage or disposal facilities by registered hazardous waste transporters that are no longer in current agency list.
1 SITE FOUND WITHIN .25 MILE

EQUAL/HIGHER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
4	*1X NORTH COUNTY BANK*	*SW CORNER OF JEFFERSON AND*	*S / 0.008 mi., 44 ft.*	*36*

Following sites were unable to be mapped.

SITE NAME:	ADDRESS, CITY, ZIP:	DATABASE(S):
ANDERSON COALINGA	NW 1/4SEC 8T20SR15EMDB&M	HIST LDS - CA
COALINGA	SECTION 14 T20S R14E MDB&M	LDS - CA
COALINGA, CMS	SECTION 31 T19S R15E MDB&M	HIST LDS - CA
COALINGA, CMS-AZTEC	SEC 31 T19S R15E MDB&M	HIST LDS - CA
COALINGA, PENN-ZIER	SEC 1 T20S R14E MDB&M	HIST LDS - CA
COALINGA, SEC 2	SECTION 2 T19S R15E MDB&M	CIWQS - CA, HIST LDS - CA
COALINGA, SEC 26	SEC 26 T195 RISE MDB&M	HIST LDS - CA
Coalinga, Section 35A | COALINGA, (SEC 35)	Sec 35 T19S R15E Mdb&M	HIST LDS - CA, RFR - CA
JACALITOS	SEC 27 T21S R15E MDB&M	CIWQS - CA, LDS - CA
Mt. Campbell Rifle Range (J09CA087600)	N/R	HIST MCS - CA, MCS - CA
PLEASANT VALLEY, GATCHELL	SECTION 20 T20S R16E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY FULLER	SW1/4NE1/4SEC13T15SR17EMD	CIWQS - CA, LDS - CA
RAISIN CITY HAMILTON (2)	N1/2SE1/4NW1/4SEC13T15SR17E	CIWQS - CA, LDS - CA
RAISIN CITY VARIOUS LEASES	T155 R17E & 18E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY, EAGLE SUNSET	SW1/4SEC11 T15S R17E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY, EAGLE-SUNSET 02	SW1/4NW1/4 SEC19 T15S R17E	CIWQS - CA, LDS - CA
RAISIN CITY, EAGLE-SUNSET 03	SEC 19 T15S R18E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY, HAMILTON	SEC 13 T15S R18 MDB&M	CIWQS - CA, CIWQS 2 - CA, HIST LDS - CA
RAISIN CITY, HAMILTON	SE1/2NW1/4SEC13T15SR17EMD	CIWQS - CA, LDS - CA
RAISIN CITY, NCC	SE1/4 SE1/4 SEC10 T15SR17E	CIWQS - CA, LDS - CA
RAISIN CITY, PROPERTIES, INC	SEC 18 T15S R18E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY, RAISIN CITY A	SE1/4NW1/4SEC19T15SR18EMD	CIWQS - CA, LDS - CA
RAISIN CITY, RIPPERDAN (01)	NE1/4SE1/4SEC13T15SR17EMD	CIWQS - CA, LDS - CA
RAISIN CITY, RIPPERDAN (04)	NE1/4SW1/4SEC13T15SR17EMD	CIWQS - CA, LDS - CA
RAISIN CITY, RIPPERDAN (07)	NW1/4SE1/4SEC13T15SR17EMD	CIWQS - CA, LDS - CA
RAISIN CITY, RIPPERDAN (NO 06)	SW1/4SW1/4SEC 13T15SR17E	CIWQS - CA, LDS - CA
RAISIN CITY, RIPPERDAN 05	SEC 13 T15S R17E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY, SURFLUH (05)	NE1/4NW1/4SEC14T15SR17EMD	CIWQS - CA, LDS - CA
RAISIN CITY, SURFLUH (08)	SE1/4NE1/4SEC14T15SR17EMD	LDS - CA
TRANQUILITY DUMPSITE	NE CORNER JAMES & M..., TRANQUILITY 93668	ENVIROSTOR - CA, HIST CORTESE - CA

DATABASE(S) WITH NO MAPPED SITES:

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF	Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities
RCRA_TSDF	Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

AST PBS	ASTs at Bulk Petroleum Terminals

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS *(cont.)*

EPA UST	EPA UST Finder database
FEMA UST	FEMA Underground Storage Tanks
HIST INDIAN UST R6	Historical Underground Storage Tanks on Indian Land in EPA Region 6
HIST INDIAN UST R7	Historical Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN UST R2	Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN UST R4	Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN UST R5	Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN UST R6	Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN UST R7	Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R8	Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN UST R9	Underground Storage Tanks on Indian Land in EPA Region 9
AST - CA	Aboveground storage tanks
AST_KERN COUNTY - CA	Kern County Aboveground Storage Tanks Facilites
AST_ORANGE COUNTY - CA	Orange County Aboveground Storage Tanks
AST_PLACER COUNTY - CA	Placer County Aboveground Storage Tanks
AST_YOLO COUNTY - CA	Yolo County Above Ground Storage Tanks
CLOSED UST_VENTURA COUNTY - CA	Ventura County Closed Underground Storage Tanks
FID UST - CA	Facility Inventory Database
HIST AST - CA	Historical Aboveground Storage Tanks
HIST UST - CA	Historical Underground Storage Tanks
HIST UST_EL SEGUNDO CITY - CA	Historical City of El Segundo Underground Storage Tanks
HIST UST_KERN COUNTY - CA	Historical Kern County Underground Storage Tanks
HIST UST_SUTTER COUNTY - CA	Historical Sutter County Underground Storage Tank List
TANKS_CONTRA COSTA COUNTY - CA	Contra Costa County Aboveground Storage Tanks
UST - CA	Underground Storage Tanks
UST_ALAMEDA COUNTY - CA	Alameda County Underground Storage Tanks
UST_CITY OF LONG BEACH - CA	City of Long Beach Underground Storage Tanks
UST_CITY OF TORRANCE - CA	City of Torrance Underground Storage Tanks
UST_EL SEGUNDO CITY - CA	City of El Segundo Underground Storage Tanks
UST_KERN COUNTY - CA	Kern County Underground Storage Tanks
UST_MARIN COUNTY - CA	Marin County Underground Storage Tanks
UST_MENDOCINO COUNTY - CA	Mendocino County Underground Storage Tanks
UST_NAPA COUNTY - CA	Underground storage tank sites located in Napa county.
UST_ORANGE COUNTY - CA	Orange County Underground Storage Tanks
UST_PLACER COUNTY - CA	Placer County Underground Storage Tanks
UST_RIVERSIDE COUNTY - CA	Riverside County Underground Storage Tanks
UST_SAN FRANCISCO COUNTY - CA	San Francisco County Underground Storage Tanks
UST_SAN JOAQUIN COUNTY - CA	San Joaquin County Underground Storage Tanks
UST_SOLANO COUNTY - CA	Solano County Underground Storage Tanks
UST_SUTTER COUNTY - CA	Sutter County Underground Storage Tanks
UST_YOLO COUNTY - CA	Yolo County Underground Storage Tanks

FEDERAL CERCLIS LIST

CERCLIS NFRAP	Comprehensive Environmental Response Compensation and Liability Act No Further Remedial Action Planned
CERCLIS-HIST	Comprehensive Environmental Response Compensation and Liability Act
EPA SAA	EPA Superfund Alternative Approach
FEDERAL FACILITY	Federal Facility sites
SEMS_8R_ACTIVE SITES	Sites on SEMS Active Site Inventory
SEMS_8R_ARCHIVED SITES	Sites on SEMS Archived Site Inventory

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS	Hazardous Waste Corrective Action
HIST CORRACTS 2	Historical Hazardous Waste Corrective Action

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL	Delisted National Priority List

FEDERAL DELISTED NPL SITE LIST *(cont.)*

DELISTED PROPOSED NPL	Delisted proposed National Priority List
SEMS_DELETED NPL	Sites Deleted from National Priorities List

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP	EPA Landfill Methane Outreach Project Database

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

HIST INDIAN LUST R4	Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4
HIST INDIAN LUST R8	Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN LUST R2	Leaking Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land in EPA Region 9
HIST LUST_SONOMA COUNTY - CA	Historical Sonoma County Leaking Underground Storage Tanks
LUFT_ALAMEDA COUNTY - CA	Alameda County Leaking Underground Fuel Tanks
LUST ORANGE COUNTY - CA	Orange County Leaking Underground Storage Tanks
LUST REG 1 - CA	Region 1 Leaking Underground Storage Tanks
LUST REG 2 - CA	Region 2 Leaking Underground Storage Tanks
LUST REG 3 - CA	Region 3 Leaking Underground Storage Tanks
LUST REG 4 - CA	Region 4 Leaking Underground Storage Tanks
LUST REG 6 - CA	Region 6 Leaking Underground Storage Tanks
LUST REG 7 - CA	Region 7 Leaking Underground Storage Tanks
LUST REG 8 - CA	Region 8 Leaking Underground Storage Tanks
LUST REG 9 - CA	Region 9 Leaking Underground Storage Tanks
LUST_HAZMAT_YOLO COUNTY - CA	Yolo County Leaking Underground Storage tanks
LUST_KERN COUNTY - CA	Kern County leaking underground tank sites
LUST_RIVERSIDE COUNTY - CA	Riverside County Leaking Underground Storage Tanks
LUST_SAN FRANCISCO COUNTY - CA	listing of leaking underground storage tanks
LUST_SAN MATEO COUNTY - CA	San Mateo County Leaking Underground Storage Tanks
LUST_SOLANO COUNTY - CA	Solano County Leaking Underground Storage Tanks
LUST_SONOMA COUNTY - CA	Sonoma County Leaking Underground Storage Tanks
LUST_SUTTER COUNTY - CA	Sutter County Leaking Underground Storage Tanks
LUST_VENTURA COUNTY - CA	Ventura County Leaking Underground Storage Tanks
SLIC REG 1 - CA	Spills Leaks Investigation & Cleanup Program
SLIC REG 2 - CA	Spills Leaks Investigation & Cleanup Program
SLIC REG 3 - CA	Spills Leaks Investigation & Cleanup Program
SLIC REG 4 - CA	Spills Leaks Investigation & Cleanup Program
SLIC REG 6 - CA	Spills Leaks Investigation & Cleanup Program
SLIC REG 7 - CA	Spills Leaks Investigation & Cleanup Program
SLIC REG 8 - CA	Spills Leaks Investigation & Cleanup Program
SLIC REG 9 - CA	Spills Leaks Investigation & Cleanup Program
SLIC_ALAMEDA COUNTY - CA	Alameda County Spills Leaks Investigation & Cleanup

FEDERAL ERNS LIST

ERNS	Emergency Response Notification System

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C	Engineering Controls
FED I C	Institutional Controls
RCRA IC_EC	RCRA sites with Institutional and Engineering Controls

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG	Historical Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
HIST RCRA_LQG	Historical Resource Conservation and Recovery Act_ Large Quantity Generators
HIST RCRA_NONGEN	Historical Resource Conservation and Recovery Act_Non Generators
HIST RCRA_SQG	Historical Resource Conservation and Recovery Act_Small Quantity Generators
RCRA_LQG	Resource Conservation and Recovery Act_ Large Quantity Generators
RCRA_SQG	Resource Conservation and Recovery Act_Small Quantity Generators
RCRA_VSQG	Resource Conservation and Recovery Act_Very Small Quantity Generator

FEDERAL NPL SITE LIST

NPL	National Priority List
NPL EPA R1 GIS	GIS for EPA Region 1 NPL
NPL EPA R3 GIS	GIS for EPA Region 3 NPL
NPL EPA R6 GIS	GIS for EPA Region 6 NPL
NPL EPA R8 GIS	GIS for EPA Region 8 NPL
NPL EPA R9 GIS	GIS for EPA Region 9 NPL
PART NPL	Part National Priority List
PROPOSED NPL	Proposed National Priority List
SEMS_FINAL NPL	Sites included on the Final National Priorities List
SEMS_PROPOSED NPL	Sites Proposed to be Added to the National Priorities List

STATE- AND TRIBAL - EQUIVALENT CERCLIS

HIST TOXIC PITS - CA	Historical Toxic Pits Cleanup Act
OIL & GAS CLEANUP - CA	SWRCB Oil & Gas Cleanup Sites
SWRCB CLEANUP - CA	SWRCB Cleanup Program
SWRCB NON_CASE - CA	SWRCB Non-Case Sites
TOXIC PITS - CA	Toxic Pits Cleanup Act

STATE- AND TRIBAL - EQUIVALENT NPL

HIST RESPONSE - CA	Historical State Response Sites
RESPONSE - CA	State Response Sites

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST SWF/LF - CA	Historical Solid Waste Information System

STATE RCRA GENERATORS LIST

HWG_YOLO COUNTY - CA	State Hazardous Waste Generators

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS	Tribal Brownfields

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - CA	Voluntary Cleanup Program sites

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES	EPA ACRES Brownfields
FED BROWNFIELDS	Federal Brownfields

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL	DOJ Clandestine Drug Labs
US HIST CDL	Historical Clandestine Drug Labs
CALARP_KERN COUNTY - CA	HazMat Chemical Facility List
CASE LIST_SAN DIEGO COUNTY - CA	San Diego County Environmental Case List
CDL - CA	Meth and Clandestine Drug Labs
CORRECTIVE ACTION_RIVERSIDE COUNTY - CA	Riverside County Corrective Action Sites
CS_NAPA COUNTY - CA	Contaminated Sites
CS_PLACER COUNTY - CA	Placer County Cleanup Sites

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES *(cont.)*

SCH - CA	School Property Evaluation Program
SITE LIST_CONTRA COSTA COUNTY - CA	Contra Costa County Sites List
TOXIC SITE_SACRAMENTO COUNTY - CA	Sacramento County Toxic Site Cleanup list

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)	Hazardous Materials Information Reporting Systems
HIST CHMIRS - CA	California Hazardous Material Incident Report System
INDUSTRIAL CLEANUP_ORANGE COUNTY - CA	Petroleum and non-petroleum industrial spills
SML_LOS ANGELES COUNTY - CA	Los Angeles County Emergency Response session spills

LOCAL LAND RECORDS

LIENS 2	CERCLA Lien Information
DEED - CA	Deeds
HIST LIENS - CA	Historical Liens
LIENS - CA	Liens

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8	Historical Open Dump Inventory
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites
HAULERS - CA	Tire Haulers
LF_SAN DIEGO COUNTY - CA	San Diego County Landfills
SWF_LOS ANGELES COUNTY - CA	Los Angeles County solid waste facilities
SWRCY - CA	Recyclers

OTHER ASCERTAINABLE RECORDS

AFS	Air Facility Systems
ALT FUELING	Alternative Fueling Stations
BRS	Biennial Reporting Systems
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
COAL GAS	Coal Gas Plants
COLLEGES	COLLEGES
COLLEGES 2	COLLEGES 2
CONSENT (DECREES)	Superfund Consent Decree
CORRECTIVE ACTIONS_2020	Wastes - Hazardous Waste - Corrective Action
DEBRIS EPA LF	EPA Disaster Debris Landfill Sites
DEBRIS EPA SWRCY	EPA Disaster Debris Recovery Sites
DOD	Department of Defense
DOT OPS	Department of Transportation Office of Pipeline Safety
ECHO	EPA Enforcement and Compliance History Online
ENOI	Electronic Notice of Intent
EPA FUELS	EPA Fuels Registration, Reporting, and Compliance List
EPA OSC	EPA On-Site Coordinator
EPA WATCH	EPA Watch List
FA HWF	Financial Assurance for Hazardous Waste Facilities
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
HIST AFS	Historical Air Facility Systems
HIST AFS 2	Historical Air Facility Systems
HIST DOD	Department of Defense historical sites
HIST LEAD_SMELTER	Historical Lead Smelter Sites
HIST MLTS	Historical Material Licensing Tracking Systems
HIST PCB TRANS	Historical Polychlorinated Biphenyl (PCB) Facilities
HIST PCS ENF	Historical Enforced Permit Compliance Facilities
HIST PCS FACILITY	Historical Permit Compliance Facilities

OTHER ASCERTAINABLE RECORDS *(cont.)*

HIST SSTS	Historical Section 7 Tracking Systems
HOSPITALS	HOSPITALS
HWC DOCKET	Hazardous Waste Compliance Docket
ICIS	Integrated Compliance Information System
INACTIVE PCS	Inactive Permit Compliance Facilities
INDIAN RESERVATION	American Indian Lands
LUCIS	Land Use Control Information Systems
LUCIS 2	Land Use Control Information Systems 2
MANIFEST EPA	EPA Hazardous Waste Manifests
MINE OPERATIONS	Mines list from USGS
MINES	Mines
MINES USGS	Mines list from USGS
MLTS	Material Licensing Tracking Systems
NPL AOC	Areas related to NPL remediation sites
NPL LIENS	National Priority List Liens
NURSING HOMES	NURSING HOMES
OSHA	Occupational Safety & Health Administration
PADS	PCB Activity Database Systems
PCB TRANSFORMER	Polychlorinated Biphenyl (PCB) Waste
PCS ENF	Enforced Permit Compliance Facilities
PCS FACILITY	Permit Compliance Facilities
PFAS NPL	PFAS NPL Sites
PFAS TRIS	PFAS TRIS Sites
PFAS UCMR3	PFAS UCMR Samples
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCHOOLS PRIVATE	SCHOOLS PRIVATE
SCHOOLS PUBLIC	SCHOOLS PUBLIC
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTS	Section 7 Tracking Systems
STORMWATER	Storm Water Permits
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
VAPOR	EPA Vapor Intrusion
AOC_SAN GABRIEL VALLEY - CA	San Gabriel Valley Superfund
BOND EXPENDITURE PLAN - CA	Bond Expenditure Plan
BP HW OUT_VENTURA COUNTY - CA	Ventura County Business Plan Hazardous Waste Producers and Operating Underground Tanks
BUSINESS INVENTORY_SAN MATEO COUNTY - CA	San Mateo County List of Underground Storage Tanks, Hazardous Materials, Business Plans, and Hazardous Waste Generators
CORTESE - CA	The Hazardous Waste and Substances Sites List
CUPA_BUTTE COUNTY - CA	Butte County Certified Unified Program Agency
CUPA_FRESNO COUNTY - CA	Fresno County Certified Unified Program Agency
CUPA_PLACER COUNTY - CA	CUPA County Certified Unified Program Agency
DAYCARE - CA	Daycares
DRYCLEANERS - CA	Drycleaners
DRYCLEANERS_AMADOR COUNTY - CA	Amador County Drycleaners
DRYCLEANERS_ANTELOPE VALLEY - CA	Antelope Valley Drycleaners
DRYCLEANERS_BAY AREA - CA	Bay Area Drycleaners
DRYCLEANERS_BUTTE COUNTY - CA	Butte County Drycleaners
DRYCLEANERS_CALAVERAS COUNTY - CA	Calaveras County Drycleaners
DRYCLEANERS_COLUSA COUNTY - CA	Colusa County Drycleaners
DRYCLEANERS_EASTERN KERN COUNTY - CA	Eastern Kern County Drycleaners
DRYCLEANERS_EL DORADO COUNTY - CA	El Dorado County Drycleaners

OTHER ASCERTAINABLE RECORDS *(cont.)*

DRYCLEANERS_FEATHER RIVER - CA	Feather River Drycleaners
DRYCLEANERS_GLENN COUNTY - CA	Glenn County Drycleaners
DRYCLEANERS_GREAT BASIN UNIFIED - CA	Great Basin Unified Drycleaners
DRYCLEANERS_IMPERIAL COUNTY - CA	Imperial County Drycleaners
DRYCLEANERS_LAKE COUNTY - CA	Lake County Drycleaners
DRYCLEANERS_LASSEN COUNTY - CA	Lassen County Drycleaners
DRYCLEANERS_MENDOCINO COUNTY - CA	Mendocino County Drycleaners
DRYCLEANERS_MOJAVE DESERT - CA	Mojave Desert Drycleaners
DRYCLEANERS_MONTEREY BAY - CA	Monterey Bay Drycleaners
DRYCLEANERS_NORTH COAST UNIFIED - CA	North Coast Unified Drycleaners
DRYCLEANERS_NORTHERN SIERRA - CA	Northern Sierra Drycleaners
DRYCLEANERS_NORTHERN SONOMA COUNTY - CA	Northern Sonoma County Drycleaners
DRYCLEANERS_PLACER COUNTY - CA	Placer County Drycleaners
DRYCLEANERS_SACRAMENTO COUNTY - CA	Sacramento County Drycleaners
DRYCLEANERS_SAN DIEGO COUNTY - CA	San Diego County Drycleaners
DRYCLEANERS_SAN JOAQUIN VALLEY - CA	San Joaquin Valley Drycleaners
DRYCLEANERS_SAN LUIS OBISPO - CA	San Luis Obispo Drycleaners
DRYCLEANERS_SANTA BARBARA COUNTY - CA	Santa Barbara Drycleaners
DRYCLEANERS_SHASTA COUNTY - CA	Shasta County Drycleaner
DRYCLEANERS_SISKIYOU COUNTY - CA	Siskiyou County Drycleaners
DRYCLEANERS_SOUTH COAST - CA	South Coast Drycleaners
DRYCLEANERS_TEHAMA COUNTY - CA	Tehama County Drycleaners
DRYCLEANERS_TUOLUMNE COUNTY - CA	Tuolumne County Drycleaners
DRYCLEANERS_VENTURA COUNTY - CA	Ventura County Drycleaners
DRYCLEANERS_YOLO-SOLANO COUNTIES - CA	Yolo and Solano Counties Drycleaners
EMI - CA	Emissions Inventory Data
FA - CA	Financial Assurance
FA 2 - CA	Financial Assurance for Solid Waste Facilities
FIRE AREAS - CA	Fire Perimeters
GCC_SANTA CLARA VALLEY - CA	Santa Clara Valley Groundwater Contamination Cleanups
HAZMAT INCIDENT_CONTRA COSTA COUNTY - CA	Contra Costa County Hazardous Materials Incident list
HAZMAT_CITY OF SAN JOSE - CA	City of San Jose Hazardous Material Facilities
HAZMAT_SACRAMENTO COUNTY - CA	Sacramento County Master Hazardous Materials Facility list
HAZMAT_SAN BERNARDINO COUNTY - CA	San Bernardino County Hazardous Material Permits
HAZMAT_SAN DIEGO COUNTY - CA	Hazardous Materials Management Division Database
HAZMAT_SANTA CLARA COUNTY - CA	Santa Clara County Hazardous Material Facilities
HAZWASTE_ORANGE COUNTY - CA	Orange County hazardous waste facilities
HIGH FIRE - CA	Fire Hazard Severity Zones
HIST CORTESE - CA	The Historical Hazardous Waste and Substances Sites List
HIST HMS_LOS ANGELES COUNTY - CA	Historical Los Angeles County Street Number List
HIST HWP - CA	Historical EnviroStor Permitted Facilities
HIST LDS - CA	Historical Land Disposal Sites
HIST MCS - CA	Historical Military Cleanup Sites
HIST NFA - CA	Historical No Further Action Sites
HMS_LOS ANGELES COUNTY - CA	Los Angeles County Street Number List
HWM COMMERCIAL FACILITIES - CA	Hazardous Waste Management Commercial Facilities
HWP - CA	EnviroStor Permitted Facilities
HWT - CA	Hazardous Waste Transporters
LDS - CA	Land Disposal Sites
LOP_SANTA CLARA COUNTY - CA	Santa Clara County Local Oversight Program
MCS - CA	Military Cleanup Sites
MWMP - CA	Medical Waste Management Program
MWMP 2 - CA	Medical Waste Management Program
NFA - CA	No Further Action Sites

OTHER ASCERTAINABLE RECORDS *(cont.)*

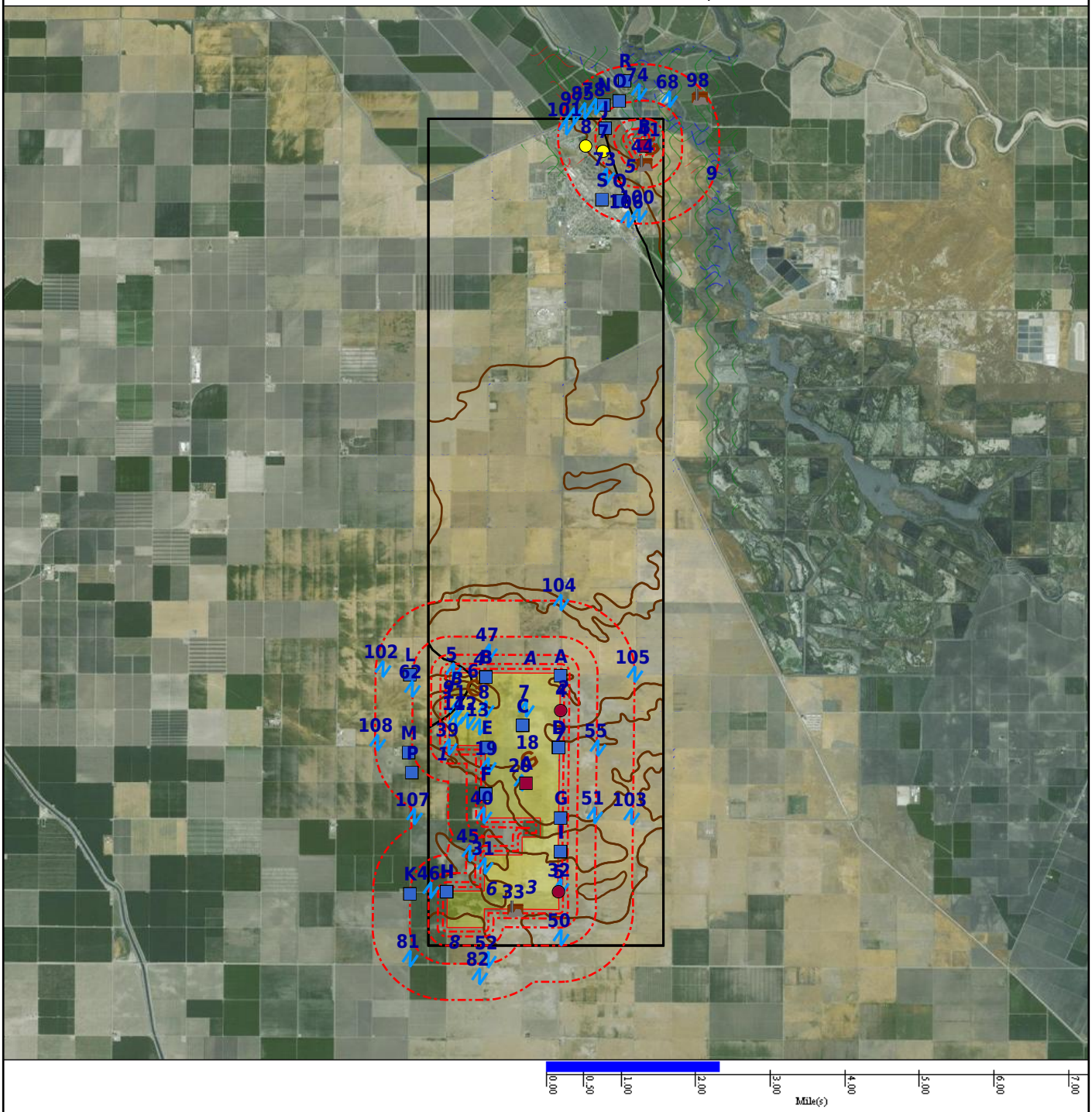
NFE - CA	Unconfirmed contaminated properties
NPDES - CA	State Wastewater and NPDES Permits
PERCHLORATE 2 - CA	Perchlorate contaminted sites
PFAS - CA	PFAS Site Listing
PFAS DOD - CA	PFAS Site Listing
PFAS GAMA - CA	PFAS GAMA Well Sampling
PROPOSITION 65 - CA	Proposition 65 Records
SITES INVENTORY_VENTURA COUNTY - CA	Ventura County Inventory of Closed Illegal Abandoned and Inactive Sites
SMU_SANTA BARBARA COUNTY - CA	Site Mitigation Unit Sites
SWAT - CA	SWAT Reports Summary Data
VCCP_VENTURA COUNTY - CA	Ventura County County Cleanup Program
WDS - CA	Waste Discharge System
WILDLANDS - CA	Preserves List
WIP - CA	Well Investigation Program

OTHER

SEISMIC - CA	Seismic Hazards Zonation Program

SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: April 11, 2022



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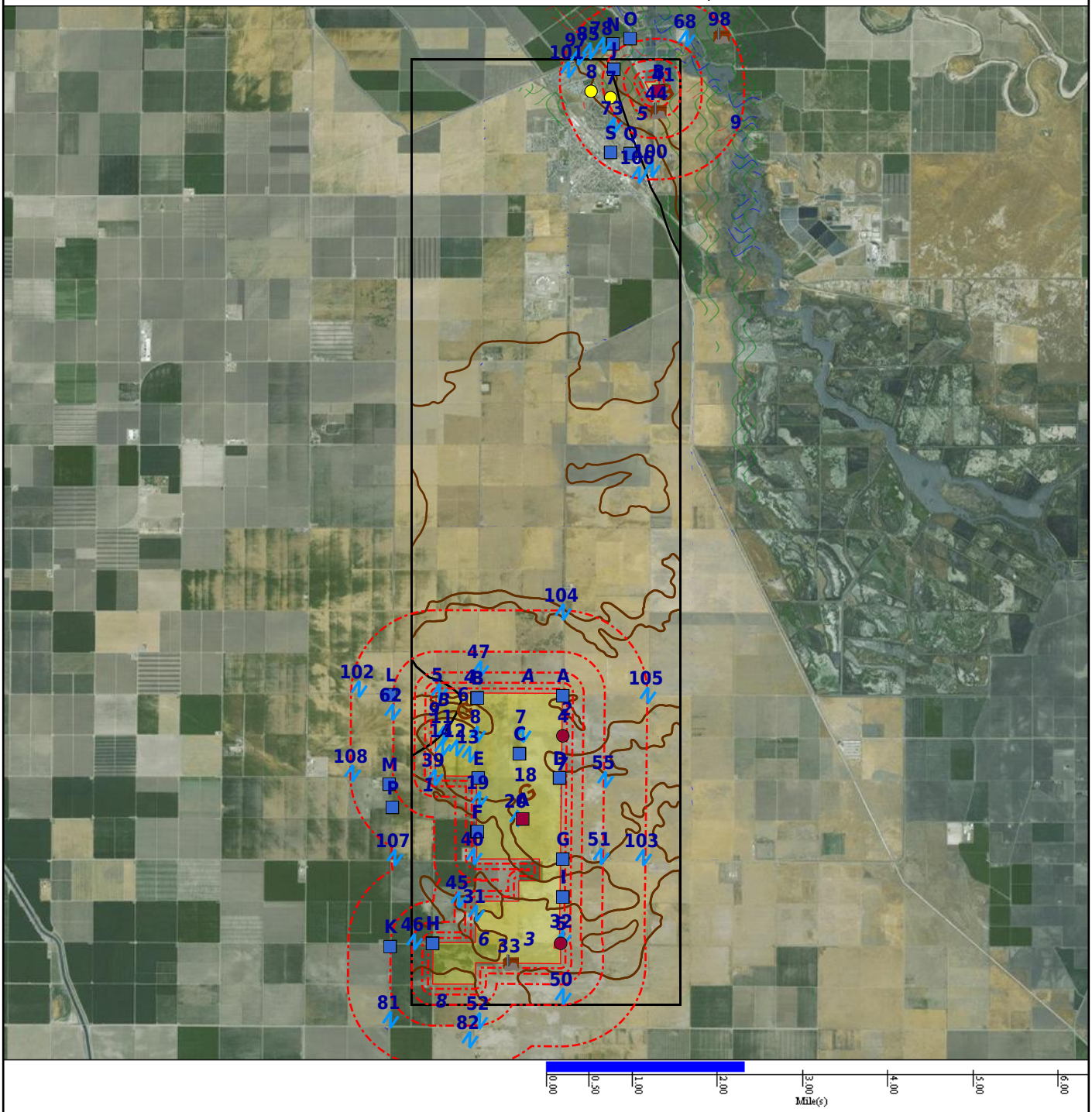


DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST								
ARCHIVED RCRA TSDF		0.500	0	0	0	--	--	0
RCRA_TSDF		0.500	0	0	0	--	--	0
FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS								
AST PBS		0.250	0	0	--	--	--	0
EPA UST		0.250	0	0	--	--	--	0
FEMA UST		0.250	0	0	--	--	--	0
HIST INDIAN UST R6		0.250	0	0	--	--	--	0
HIST INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R1		0.250	0	0	--	--	--	0
INDIAN UST R10		0.250	0	0	--	--	--	0
INDIAN UST R2		0.250	0	0	--	--	--	0
INDIAN UST R4		0.250	0	0	--	--	--	0
INDIAN UST R5		0.250	0	0	--	--	--	0
INDIAN UST R6		0.250	0	0	--	--	--	0
INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R8		0.250	0	0	--	--	--	0
INDIAN UST R9		0.250	0	0	--	--	--	0
AST - CA		0.250	0	0	--	--	--	0
AST_KERN COUNTY - CA		0.250	0	0	--	--	--	0
AST_ORANGE COUNTY - CA		0.250	0	0	--	--	--	0
AST_PLACER COUNTY - CA		0.250	0	0	--	--	--	0
AST_YOLO COUNTY - CA		0.250	0	0	--	--	--	0
CLOSED UST_VENTURA COUNTY - CA		0.250	0	0	--	--	--	0
FID UST - CA		0.250	0	0	--	--	--	0
HIST AST - CA		0.250	0	0	--	--	--	0
HIST UST - CA		0.250	0	0	--	--	--	0
HIST UST_EL SEGUNDO CITY - CA		0.250	0	0	--	--	--	0
HIST UST_KERN COUNTY - CA		0.250	0	0	--	--	--	0
HIST UST_SUTTER COUNTY - CA		0.250	0	0	--	--	--	0
TANKS_CONTRA COSTA COUNTY - CA		0.250	0	0	--	--	--	0
UST - CA		0.250	0	0	--	--	--	0
UST_ALAMEDA COUNTY - CA		0.250	0	0	--	--	--	0
UST_CITY OF LONG BEACH - CA		0.250	0	0	--	--	--	0
UST_CITY OF TORRANCE - CA		0.250	0	0	--	--	--	0
UST_EL SEGUNDO CITY - CA		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS *(cont.)*								
UST_KERN COUNTY - CA		0.250	0	0	--	--	--	0
UST_MARIN COUNTY - CA		0.250	0	0	--	--	--	0
UST_MENDOCINO COUNTY - CA		0.250	0	0	--	--	--	0
UST_NAPA COUNTY - CA		0.250	0	0	--	--	--	0
UST_ORANGE COUNTY - CA		0.250	0	0	--	--	--	0
UST_PLACER COUNTY - CA		0.250	0	0	--	--	--	0
UST_RIVERSIDE COUNTY - CA		0.250	0	0	--	--	--	0
UST_SAN FRANCISCO COUNTY - CA		0.250	0	0	--	--	--	0
UST_SAN JOAQUIN COUNTY - CA		0.250	0	0	--	--	--	0
UST_SOLANO COUNTY - CA		0.250	0	0	--	--	--	0
UST_SUTTER COUNTY - CA		0.250	0	0	--	--	--	0
UST_YOLO COUNTY - CA		0.250	0	0	--	--	--	0
FEDERAL CERCLIS LIST								
CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
EPA SAA		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0
FEDERAL RCRA CORRACTS FACILITIES LIST								
CORRACTS		1.000	0	0	0	0	--	0
HIST CORRACTS 2		1.000	0	0	0	0	--	0
FEDERAL DELISTED NPL SITE LIST								
DELISTED NPL		1.000	0	0	0	0	--	0
DELISTED PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_DELETED NPL		1.000	0	0	0	0	--	0
FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
EPA LF MOP		0.500	0	0	0	--	--	0
FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS								
EPA LUST		0.500	0	0	1	--	--	1
HIST INDIAN LUST R4		0.500	0	0	0	--	--	0
HIST INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R1		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS *(cont.)*								
INDIAN LUST R10		0.500	0	0	0	--	--	0
INDIAN LUST R2		0.500	0	0	0	--	--	0
INDIAN LUST R4		0.500	0	0	0	--	--	0
INDIAN LUST R5		0.500	0	0	0	--	--	0
INDIAN LUST R6		0.500	0	0	0	--	--	0
INDIAN LUST R7		0.500	0	0	0	--	--	0
INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R9		0.500	0	0	0	--	--	0
HIST LUST_SONOMA COUNTY - CA		0.500	0	0	0	--	--	0
LUFT_ALAMEDA COUNTY - CA		0.500	0	0	0	--	--	0
LUST ORANGE COUNTY - CA		0.500	0	0	0	--	--	0
LUST REG 1 - CA		0.500	0	0	0	--	--	0
LUST REG 2 - CA		0.500	0	0	0	--	--	0
LUST REG 3 - CA		0.500	0	0	0	--	--	0
LUST REG 4 - CA		0.500	0	0	0	--	--	0
LUST REG 5 - CA		0.500	0	0	1	--	--	1
LUST REG 6 - CA		0.500	0	0	0	--	--	0
LUST REG 7 - CA		0.500	0	0	0	--	--	0
LUST REG 8 - CA		0.500	0	0	0	--	--	0
LUST REG 9 - CA		0.500	0	0	0	--	--	0
LUST_HAZMAT_YOLO COUNTY - CA		0.500	0	0	0	--	--	0
LUST_KERN COUNTY - CA		0.500	0	0	0	--	--	0
LUST_RIVERSIDE COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SAN FRANCISCO COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SAN MATEO COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SOLANO COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SONOMA COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SUTTER COUNTY - CA		0.500	0	0	0	--	--	0
LUST_VENTURA COUNTY - CA		0.500	0	0	0	--	--	0
SLIC REG 1 - CA		0.500	0	0	0	--	--	0
SLIC REG 2 - CA		0.500	0	0	0	--	--	0
SLIC REG 3 - CA		0.500	0	0	0	--	--	0
SLIC REG 4 - CA		0.500	0	0	0	--	--	0
SLIC REG 5 - CA	X	0.500	0	0	0	--	--	1
SLIC REG 6 - CA		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS *(cont.)*								
SLIC REG 7 - CA		0.500	0	0	0	--	--	0
SLIC REG 8 - CA		0.500	0	0	0	--	--	0
SLIC REG 9 - CA		0.500	0	0	0	--	--	0
SLIC_ALAMEDA COUNTY - CA		0.500	0	0	0	--	--	0
FEDERAL ERNS LIST								
ERNS		SP	0	--	--	--	--	0
FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
FED E C		0.500	0	0	0	--	--	0
FED I C		0.500	0	0	0	--	--	0
RCRA IC_EC		0.250	0	0	--	--	--	0
FEDERAL RCRA GENERATORS LIST								
HIST RCRA_CESQG		0.250	0	0	--	--	--	0
HIST RCRA_LQG		0.250	0	0	--	--	--	0
HIST RCRA_NONGEN		0.250	0	0	--	--	--	0
HIST RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_LQG		0.250	0	0	--	--	--	0
RCRA_NONGEN		0.250	1	0	--	--	--	1
RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_VSQG		0.250	0	0	--	--	--	0
FEDERAL NPL SITE LIST								
NPL		1.000	0	0	0	0	--	0
NPL EPA R1 GIS		1.000	0	0	0	0	--	0
NPL EPA R3 GIS		1.000	0	0	0	0	--	0
NPL EPA R6 GIS		1.000	0	0	0	0	--	0
NPL EPA R8 GIS		1.000	0	0	0	0	--	0
NPL EPA R9 GIS		1.000	0	0	0	0	--	0
PART NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0
STATE- AND TRIBAL - EQUIVALENT CERCLIS								
ENVIROSTOR - CA		1.000	0	0	0	1	--	1
HIST TOXIC PITS - CA		1.000	0	0	0	0	--	0
OIL & GAS CLEANUP - CA		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
STATE- AND TRIBAL - EQUIVALENT CERCLIS *(cont.)*								
SWRCB CLEANUP - CA		0.500	0	0	0	--	--	0
SWRCB NON_CASE - CA		0.500	0	0	0	--	--	0
TOXIC PITS - CA		1.000	0	0	0	0	--	0
STATE- AND TRIBAL - EQUIVALENT NPL								
HIST RESPONSE - CA		1.000	0	0	0	0	--	0
RESPONSE - CA		1.000	0	0	0	0	--	0
STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
HIST SWF/LF - CA		0.500	0	0	0	--	--	0
SWF/LF - CA		0.500	1	0	0	--	--	1
STATE RCRA GENERATORS LIST								
HWG - CA		0.250	2	0	--	--	--	2
HWG_YOLO COUNTY - CA		0.250	0	0	--	--	--	0
STATE AND TRIBAL BROWNFIELD SITES								
TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
STATE AND TRIBAL VOLUNTARY CLEANUP SITES								
VCP - CA		0.500	0	0	0	--	--	0
LOCAL BROWNFIELD LISTS								
BROWNFIELDS-ACRES		0.500	0	0	0	--	--	0
FED BROWNFIELDS		0.500	0	0	0	--	--	0
LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES								
FED CDL		SP	0	--	--	--	--	0
US HIST CDL		SP	0	--	--	--	--	0
CALARP_KERN COUNTY - CA		0.250	0	0	--	--	--	0
CASE LIST_SAN DIEGO COUNTY - CA		0.500	0	0	0	--	--	0
CDL - CA		SP	0	--	--	--	--	0
CORRECTIVE ACTION_RIVERSIDE COUNTY - CA		1.000	0	0	0	0	--	0
CS_NAPA COUNTY - CA		0.500	0	0	0	--	--	0
CS_PLACER COUNTY - CA		1.000	0	0	0	0	--	0
SCH - CA		0.250	0	0	--	--	--	0
SITE LIST_CONTRA COSTA COUNTY - CA		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES *(cont.)*								
TOXIC SITE_SACRAMENTO COUNTY - CA		1.000	0	0	0	0	--	0
RECORDS OF EMERGENCY RELEASE REPORTS								
HMIRS (DOT)		SP	0	--	--	--	--	0
CHMIRS - CA	X	SP	--	--	--	--	--	1
HIST CHMIRS - CA		SP	0	--	--	--	--	0
INDUSTRIAL CLEANUP_ORANGE COUNTY - CA		0.125	0	--	--	--	--	0
SML_LOS ANGELES COUNTY - CA		0.125	0	--	--	--	--	0
LOCAL LAND RECORDS								
LIENS 2		SP	0	--	--	--	--	0
DEED - CA		0.500	0	0	0	--	--	0
HIST LIENS - CA		SP	0	--	--	--	--	0
LIENS - CA		SP	0	--	--	--	--	0
LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES								
HIST INDIAN ODI R8		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0
ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
HAULERS - CA		0.500	0	0	0	--	--	0
LF_SAN DIEGO COUNTY - CA		0.500	0	0	0	--	--	0
SWF_LOS ANGELES COUNTY - CA		0.500	0	0	0	--	--	0
SWRCY - CA		0.500	0	0	0	--	--	0
OTHER ASCERTAINABLE RECORDS								
AFS		SP	0	--	--	--	--	0
ALT FUELING		0.250	0	0	--	--	--	0
BRS		SP	0	--	--	--	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0
COAL GAS		1.000	0	0	0	0	--	0
COLLEGES		SP	0	--	--	--	--	0
COLLEGES 2		SP	0	--	--	--	--	0
CONSENT (DECREES)		1.000	0	0	0	0	--	0
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
DEBRIS EPA LF		0.500	0	0	0	--	--	0
DEBRIS EPA SWRCY		0.500	0	0	0	--	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	0	--	--	--	--	0
ECHO		SP	0	--	--	--	--	0
ENOI		SP	0	--	--	--	--	0
EPA FUELS		SP	0	--	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
EPA WATCH		SP	0	--	--	--	--	0
FA HWF		SP	0	--	--	--	--	0
FEDLAND		1.000	0	0	0	1	--	1
FRS	X	SP	--	--	--	--	--	2
FTTS		SP	0	--	--	--	--	0
FTTS INSP		SP	0	--	--	--	--	0
FUDS		1.000	0	0	0	0	--	0
HIST AFS		SP	0	--	--	--	--	0
HIST AFS 2		SP	0	--	--	--	--	0
HIST DOD		1.000	0	0	0	0	--	0
HIST LEAD_SMELTER		SP	0	--	--	--	--	0
HIST MLTS		SP	0	--	--	--	--	0
HIST PCB TRANS		SP	0	--	--	--	--	0
HIST PCS ENF		SP	0	--	--	--	--	0
HIST PCS FACILITY		SP	0	--	--	--	--	0
HIST SSTS		SP	0	--	--	--	--	0
HOSPITALS		SP	0	--	--	--	--	0
HWC DOCKET		SP	0	--	--	--	--	0
ICIS		SP	0	--	--	--	--	0
INACTIVE PCS		SP	0	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LUCIS		0.500	0	0	0	--	--	0
LUCIS 2		0.500	0	0	0	--	--	0
MANIFEST EPA		0.250	0	0	--	--	--	0
MINE OPERATIONS		0.250	0	0	--	--	--	0
MINES		0.250	0	0	--	--	--	0
MINES USGS		0.250	0	0	--	--	--	0
MLTS		SP	0	--	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
NPL AOC		1.000	0	0	0	0	--	0
NPL LIENS		SP	0	--	--	--	--	0
NURSING HOMES		SP	0	--	--	--	--	0
OSHA		SP	0	--	--	--	--	0
PADS		SP	0	--	--	--	--	0
PCB TRANSFORMER		SP	0	--	--	--	--	0
PCS ENF		SP	0	--	--	--	--	0
PCS FACILITY		SP	0	--	--	--	--	0
PFAS NPL		0.500	0	0	0	--	--	0
PFAS TRIS		0.500	0	0	0	--	--	0
PFAS UCMR3		0.500	0	0	0	--	--	0
RAATS		SP	0	--	--	--	--	0
RADINFO		SP	0	--	--	--	--	0
RMP		0.500	0	0	0	--	--	0
ROD		1.000	0	0	0	0	--	0
SCHOOLS PRIVATE		SP	0	--	--	--	--	0
SCHOOLS PUBLIC		SP	0	--	--	--	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
SEMS_SMELTER		SP	0	--	--	--	--	0
SSTS		SP	0	--	--	--	--	0
STORMWATER		SP	0	--	--	--	--	0
TOSCA-PLANT		SP	0	--	--	--	--	0
TRIS		SP	0	--	--	--	--	0
UMTRA		0.500	0	0	0	--	--	0
VAPOR		0.500	0	0	0	--	--	0
AOC_SAN GABRIEL VALLEY - CA		1.000	0	0	0	0	--	0
BOND EXPENDITURE PLAN - CA		1.000	0	0	0	0	--	0
BP HW OUT_VENTURA COUNTY - CA		0.250	0	0	--	--	--	0
BUSINESS INVENTORY_SAN MATEO COUNTY - CA		0.250	0	0	--	--	--	0
CALEPA SITES - CA	X	0.250	0	0	--	--	--	2
CIWQS - CA	X	SP	--	--	--	--	--	1
CIWQS 2 - CA	X	SP	--	--	--	--	--	1
CORTESE - CA		0.500	0	0	0	--	--	0
CUPA_BUTTE COUNTY - CA		0.250	0	0	--	--	--	0
CUPA_FRESNO COUNTY - CA		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
CUPA_PLACER COUNTY - CA		0.250	0	0	--	--	--	0
DAYCARE - CA		SP	0	--	--	--	--	0
DRYCLEANERS - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_AMADOR COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_ANTELOPE VALLEY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_BAY AREA - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_BUTTE COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_CALAVERAS COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_COLUSA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_EASTERN KERN COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_EL DORADO COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_FEATHER RIVER - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_GLENN COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_GREAT BASIN UNIFIED - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_IMPERIAL COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_LAKE COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_LASSEN COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_MENDOCINO COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_MOJAVE DESERT - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_MONTEREY BAY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_NORTH COAST UNIFIED - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_NORTHERN SIERRA - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_NORTHERN SONOMA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_PLACER COUNTY - CA		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
DRYCLEANERS_SACRAMENTO COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SAN DIEGO COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SAN JOAQUIN VALLEY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SAN LUIS OBISPO - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SANTA BARBARA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SHASTA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SISKIYOU COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SOUTH COAST - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_TEHAMA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_TUOLUMNE COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_VENTURA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_YOLO-SOLANO COUNTIES - CA		0.250	0	0	--	--	--	0
EMI - CA		SP	0	--	--	--	--	0
FA - CA		SP	0	--	--	--	--	0
FA 2 - CA		SP	0	--	--	--	--	0
FIRE AREAS - CA		1.000	0	0	0	0	--	0
GCC_SANTA CLARA VALLEY - CA		0.500	0	0	0	--	--	0
HAZMAT INCIDENT_CONTRA COSTA COUNTY - CA		0.250	0	0	--	--	--	0
HAZMAT_CITY OF SAN JOSE - CA		0.250	0	0	--	--	--	0
HAZMAT_SACRAMENTO COUNTY - CA		0.250	0	0	--	--	--	0
HAZMAT_SAN BERNARDINO COUNTY - CA		0.250	0	0	--	--	--	0
HAZMAT_SAN DIEGO COUNTY - CA		0.250	0	0	--	--	--	0
HAZMAT_SANTA CLARA COUNTY - CA		0.250	0	0	--	--	--	0
HAZNET - CA		0.250	1	0	--	--	--	1
HAZWASTE_ORANGE COUNTY - CA		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
HIGH FIRE - CA		1.000	0	0	0	0	--	0
HIST CORTESE - CA		0.500	0	0	0	--	--	0
HIST HAZNET - CA		0.250	1	0	--	--	--	1
HIST HMS_LOS ANGELES COUNTY - CA		0.250	0	0	--	--	--	0
HIST HWP - CA		1.000	0	0	0	0	--	0
HIST LDS - CA		0.500	0	0	0	--	--	0
HIST MCS - CA		1.000	0	0	0	0	--	0
HIST NFA - CA		0.500	0	0	0	--	--	0
HMS_LOS ANGELES COUNTY - CA		0.250	0	0	--	--	--	0
HWM COMMERCIAL FACILITIES - CA		0.250	0	0	--	--	--	0
HWP - CA		1.000	0	0	0	0	--	0
HWT - CA		0.250	0	0	--	--	--	0
LDS - CA		0.500	0	0	0	--	--	0
LOP_SANTA CLARA COUNTY - CA		0.500	0	0	0	--	--	0
MCS - CA		1.000	0	0	0	0	--	0
MWMP - CA		0.250	0	0	--	--	--	0
MWMP 2 - CA		0.250	0	0	--	--	--	0
NFA - CA		0.500	0	0	0	--	--	0
NFE - CA		0.500	0	0	0	--	--	0
NPDES - CA		SP	0	--	--	--	--	0
PERCHLORATE 2 - CA		0.500	0	0	0	--	--	0
PFAS - CA		0.500	0	0	0	--	--	0
PFAS DOD - CA		0.500	0	0	0	--	--	0
PFAS GAMA - CA		0.500	0	0	0	--	--	0
PROPOSITION 65 - CA		1.000	0	0	0	0	--	0
RFR - CA	X	SP	--	--	--	--	--	1
SITES INVENTORY_VENTURA COUNTY - CA		1.000	0	0	0	0	--	0
SMU_SANTA BARBARA COUNTY - CA		1.000	0	0	0	0	--	0
SWAT - CA		SP	0	--	--	--	--	0
VCCP_VENTURA COUNTY - CA		0.500	0	0	0	--	--	0
WDS - CA		SP	0	--	--	--	--	0
WILDLANDS - CA		1.000	0	0	0	0	--	0
WIP - CA		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER								
SEISMIC - CA		1.000	0	0	0	0	--	0

Map Id: A1
Direction:
Distance:
Elevation:
Relative:

Site Name : N/R
WEST AMERICAN AVE AND SOUTH OHIO AVE
MENDOTA, CA 93640

Database(s) : [CHMIRS - CA]

Envirosite ID: 747132
EPA ID: N/R

CHMIRS - CA

Facility Address :	West American Ave and South Ohio Ave, Mendota, 93640
County :	Fresno County
Notified Date :	2012-07-05 10:34:00
Spill Representative :	PG&E
Control Number :	12-3893
Substance 1 :	Mineral Oil
Quantity 1 :	85
Measure 1 :	Gal(s)
Type 1 :	PETROLEUM
Pipeline 1 :	No
Vessel 1 (300 Tons) :	No
Substance 2 :	N/R
Quantity 2 :	N/R
Measure 2 :	N/R
Type 2 :	N/R
Pipeline 2 :	No
Vessel 2 (300 Tons) :	No
Substance 3 :	N/R
Quantity 3 :	N/R
Measure 3 :	N/R
Type 3 :	N/R
Pipeline 3 :	No
Vessel 3 (300 Tons) :	No
Description :	Caller states a third party cut down three poles with transformers attached resulting in the release. Caller states substance released to soil.
Contained :	Yes
Water? :	No
Water Way :	N/R
Drinking Water Impacted :	N/R
Known Impact :	N/R
Incident Date :	2012-07-03
Time :	13:00:00
Spill Site :	Road
Site :	N/R
Cause :	Other
Other Causes :	Vandals
Injuries (Y/N) :	No
Injuries Number :	N/R
Fatal (Y/N) :	No
Fatal Number :	N/R
Evacs (Y/N) :	No
Evacs Number :	N/R
Cleanup :	Reporting Party
Admin Agency :	Fresno County Health Department
Last Date in Agency List :	2017-04-04

Map Id: A2
Direction:
Distance:
Elevation:
Relative:

Site Name : BRITZ FERTILIZERS PROPERTY (APN 028-10-37)
ADAMS AND DERRICK AVE.
FRESNO COUNTY, CA 92354

Database(s) : [CALEPA SITES - CA, FRS, SLIC REG 5 - CA]

Envirosite ID: 870554
EPA ID: N/R

CALEPA SITES - CA

Facility Name : BRITZ FERTILIZERS PROPERTY (APN 028-10-37)
Facility Address : ADAMS AND DERRICK AVE., FRESNO COUNTY

Site ID : 188480
EI ID : SL0601938901
EI Description : Cleanup Program Site
Latitude : 36.632300
Longitude : -120.388800
Agency Hyperlink : Click here for hyperlink provided by the agency.
Last Date in Agency List : 2022-01-07

FRS

Facility Name : BRITZ FERTILIZERS PROPERTY (APN 028-10-37)
Facility Address : ADAMS AND DERRICK AVE., FRESNO COUNTY, CA 92354
County : FRESNO

Site Details
Registry ID : 110066601699
FRS Facility URL : Click here for hyperlink provided by the agency.
Last Date in Agency List : 2022-02-17

Source Description

Source Description :

The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS), EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), and Toxic Release Inventory (TRI).

FRS Environmental Interest
Source and System ID : CA-ENVIROVIEW - 188480

SLIC REG 5 - CA

Facility Name : BRITZ FERTILIZERS PROPERTY (APN 028-10-37)
Facility Address : ADAMS AND DERRICK AVE., FRESNO COUNTY, CA
County : Fresno

Site Details
Status Date : 2003-01-17
Status : Completed - Case Closed
Begin Date : 2002-11-26
Global ID : SL0601938901

Map Id: A2
Direction:
Distance:
Elevation:
Relative:

Site Name : BRITZ FERTILIZERS PROPERTY (APN 028-10-37)
ADAMS AND DERRICK AVE.
FRESNO COUNTY, CA 92354

Database(s) : [CALEPA SITES - CA, FRS, SLIC REG 5 - CA] ***(cont.)***

Envirosite ID: 870554
EPA ID: N/R

SLIC REG 5 - CA ***(cont.)***

Region :	REGION 5F
Site History :	N/R
RB Case Number :	N/R
Potential Media Affected :	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern :	Diesel
Local Agency :	N/R
Local Case Number :	N/R
Lead Agency :	CENTRAL VALLEY RWQCB (REGION 5F)
File Location :	N/R
CUF Case :	NO
Caseworker :	JA
Case Type :	Cleanup Program Site
How Discovered :	Tank Closure
How Discovered Description :	N/R
Stop Method :	* Close and Remove Tank
Stop Description :	N/R
Calwater Watershed Name :	South Valley Floor - Westlands - Huron (551.11)
DWR Groundwater Subbasin Name :	San Joaquin Valley - Westside (5-022.09)
Disadvantaged Community :	N/R
Latitude :	36.6323
Longitude :	-120.3888
Agency URL :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-02-11

Contacts Summary

Global ID :	SL0601938901
Contact Name :	JAN ALFSON
Contact Type :	Regional Board Caseworker
Organization Name :	CENTRAL VALLEY RWQCB (REGION 5F)
Address :	1685 E STREET
City :	FRESNO
Phone Number :	N/R
Email :	jalfson@waterboards.ca.gov

Regulatory Activities

Date :	2003-01-17
Global ID :	SL0601938901
Action Type :	ENFORCEMENT
Action :	Closure/No Further Action Letter

Date :	2002-12-10
Global ID :	SL0601938901
Action Type :	RESPONSE
Action :	Correspondence

Date :	2002-11-27
Global ID :	SL0601938901
Action Type :	RESPONSE
Action :	Correspondence

Map Id: A2
Direction:
Distance:
Elevation:
Relative:

Site Name : BRITZ FERTILIZERS PROPERTY (APN 028-10-37)
ADAMS AND DERRICK AVE.
FRESNO COUNTY, CA 92354

Database(s) : [CALEPA SITES - CA, FRS, SLIC REG 5 - CA] ***(cont.)***

Envirosite ID: 870554
EPA ID: N/R

SLIC REG 5 - CA ***(cont.)***

Date :	2002-11-26
Global ID :	SL0601938901
Action Type :	Other
Action :	Leak Reported
Date :	2002-09-17
Global ID :	SL0601938901
Action Type :	REMEDIATION
Action :	Excavation

Status History

Status Date :	2003-01-17
Global ID :	SL0601938901
Status :	Completed - Case Closed
Status Date :	2002-11-26
Global ID :	SL0601938901
Status :	Open - Case Begin Date

Map Id: B3
Direction:
Distance:
Elevation:
Relative:

Site Name : MENDOTA WWTF
BASS
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA, FRS, RFR - CA]

Envirosite ID: 9935955
EPA ID: N/R

CALEPA SITES - CA

Facility Name :	MENDOTA WWTF
Facility Address :	BASS, MENDOTA, 93640
Site ID :	47997
EI ID :	273126
EI Description :	Tanks & Ground Water Clean Up
Latitude :	36.768750
Longitude :	-120.367860
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-01-07

CIWQS - CA

Facility Name :	MENDOTA WWTF
Facility Address :	BASS, MENDOTA, CA 93640
County :	FRESNO

Map Id: B3
Direction:
Distance:
Elevation:
Relative:

Site Name : MENDOTA WWTF
BASS
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA, FRS, RFR - CA] ***(cont.)***

Envirosite ID: 9935955
EPA ID: N/R

CIWQS - CA ***(cont.)***

Place ID :	273126
Agency Name :	MENDOTA CITY
Last Date in Agency List :	2022-03-22

CIWQS 2 - CA

Facility Name :	Mendota WWTF
Facility Address :	Bass, Mendota, 93640
County :	Fresno
Facility ID :	273126
WDID :	N/R
Facility Type :	Municipal/Domestic
Region :	5F
Place Type :	Utility
Place Subtype :	Wastewater Treatment Facility
Ageny Name :	N/R
Agency Type :	N/R
Number of Agencies :	N/R
Status Date :	N/R
Status :	N/R
Status Enrollee :	N/R
Individual/General :	N/R
Fee Code :	N/R
Staff Assigned :	N/R
Number of Staff Assigned :	N/R
Supervisor :	N/R
Number of Supervisor :	N/R
Number of Amendments :	0
Number of Reg Measures :	N/R
Baseline Flow :	N/R
Population (MS4)/Acres :	N/R
Reclamation :	N/R
CAFO Type :	N/R
CAFO Subtype :	N/R
CAFO Population :	N/R
Onsite :	N/R
Quality Assurance :	N/R
RCRA Flag :	N
Total MMP Violations Number :	0
Total Number of Violations :	3
Total Number of Inspections :	0
Date of Most Recent Completed Inspection:	N/R
Date of Most Recent Received Report :	N/R
Total Number of Final (A+H) Enforcement Actions:	0
Most Recent Effective Date of Enf Action (A+H):	N/R
Program :	NPDESWW
Program Category :	NPDESWW
Number of Programs :	N/R
Complexity :	N/R
Pretreatment :	N/R
Facility Waste Type :	N/R

Map Id: B3
Direction:
Distance:
Elevation:
Relative:

Site Name : MENDOTA WWTF
BASS
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA, FRS, RFR - CA] ***(cont.)***

Envirosite ID: 9935955
EPA ID: N/R

CIWQS 2 - CA ***(cont.)***

Reg Measure ID :	N/R
Reg Measure Type :	N/R
Reg Measure Title :	N/R
Reg Measure Description :	N/R
SIC 1 :	4952 - Sewerage Systems
SIC 2 :	-
SIC 3 :	-
Latitude :	36.76875
Longitude :	-120.36786
Last Date in Agency List :	2022-01-18

Facility ID :	273126
WDID :	N/R
Facility Type :	Municipal/Domestic
Region :	5F
Place Type :	Utility
Place Subtype :	Wastewater Treatment Facility
Ageny Name :	N/R
Agency Type :	N/R
Number of Agencies :	N/R
Status Date :	N/R
Status :	N/R
Status Enrollee :	N/R
Individual/General :	N/R
Fee Code :	N/R
Staff Assigned :	N/R
Number of Staff Assigned :	N/R
Supervisor :	N/R
Number of Supervisor :	N/R
Number of Amendments :	0
Number of Reg Measures :	N/R
Baseline Flow :	N/R
Population (MS4)/Acres :	N/R
Reclamation :	N/R
CAFO Type :	N/R
CAFO Subtype :	N/R
CAFO Population :	N/R
Onsite :	N/R
Quality Assurance :	N/R
RCRA Flag :	N
Total MMP Violations Number :	0
Total Number of Violations :	0
Total Number of Inspections :	0
Date of Most Recent Completed Inspection:	N/R
Date of Most Recent Received Report :	N/R
Total Number of Final (A+H) Enforcement Actions:	1
Most Recent Effective Date of Enf Action (A+H):	2011-10-12
Program :	UNREGS
Program Category :	UNREGS
Number of Programs :	N/R
Complexity :	N/R
Pretreatment :	N/R

Map Id: B3
Direction:
Distance:
Elevation:
Relative:

Site Name : MENDOTA WWTF
BASS
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA, FRS, RFR - CA] ***(cont.)***

Envirosite ID: 9935955
EPA ID: N/R

CIWQS 2 - CA ***(cont.)***

Facility Waste Type :	N/R
Reg Measure ID :	N/R
Reg Measure Type :	N/R
Reg Measure Title :	N/R
Reg Measure Description :	N/R
SIC 1 :	4952 - Sewerage Systems
SIC 2 :	-
SIC 3 :	-
Latitude :	36.76875
Longitude :	-120.36786
Last Date in Agency List :	2022-01-18

Facility ID :	273126
WDID :	5D100109001
Facility Type :	Municipal/Domestic
Region :	5F
Place Type :	Utility
Place Subtype :	Wastewater Treatment Facility
Ageny Name :	Mendota City
Agency Type :	City Agency
Number of Agencies :	1
Status Date :	2020-12-03
Status :	Active
Status Enrollee :	N
Individual/General :	I
Fee Code :	N/R
Staff Assigned :	N/R
Number of Staff Assigned :	N/R
Supervisor :	N/R
Number of Supervisor :	N/R
Number of Amendments :	0
Number of Reg Measures :	1
Baseline Flow :	N/R
Population (MS4)/Acres :	N/R
Reclamation :	N/R
CAFO Type :	N/R
CAFO Subtype :	N/R
CAFO Population :	N/R
Onsite :	N/R
Quality Assurance :	N/R
RCRA Flag :	N
Total MMP Violations Number :	0
Total Number of Violations :	0
Total Number of Inspections :	0
Date of Most Recent Completed Inspection:	N/R
Date of Most Recent Received Report :	N/R
Total Number of Final (A+H) Enforcement Actions:	0
Most Recent Effective Date of Enf Action (A+H):	N/R
Program :	SLIC
Program Category :	TANKS
Number of Programs :	1
Complexity :	N/R

Map Id: B3
Direction:
Distance:
Elevation:
Relative:

Site Name : MENDOTA WWTF
BASS
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA, FRS, RFR - CA] ***(cont.)***

Envirosite ID: 9935955
EPA ID: N/R

CIWQS 2 - CA ***(cont.)***

Pretreatment :	N/R
Facility Waste Type :	N/R
Reg Measure ID :	440426
Reg Measure Type :	Co-Permitee
Reg Measure Title :	13627 Order Co-Permitee under 2020-0015-DWQ for Mendota City
Reg Measure Description :	13267 Order requiring PFAS investigation at POTWs. Order requires most facilities to report monitoring results to GeoTracker.
SIC 1 :	4952 - Sewerage Systems
SIC 2 :	-
SIC 3 :	-
Latitude :	36.76875
Longitude :	-120.36786
Last Date in Agency List :	2022-01-18
Facility ID :	273126
WDID :	5D100109001
Facility Type :	Municipal/Domestic
Region :	5F
Place Type :	Utility
Place Subtype :	Wastewater Treatment Facility
Ageny Name :	Mendota City
Agency Type :	City Agency
Number of Agencies :	1
Status Date :	2016-07-19
Status :	Active
Status Enrollee :	N
Individual/General :	I
Fee Code :	58 - Non15 Based on (TTWQ)/CPLX)
Staff Assigned :	N/R
Number of Staff Assigned :	N/R
Supervisor :	N/R
Number of Supervisor :	N/R
Number of Amendments :	0
Number of Reg Measures :	4
Baseline Flow :	N/R
Population (MS4)/Acres :	N/R
Reclamation :	N - No
CAFO Type :	N/R
CAFO Subtype :	N/R
CAFO Population :	N/R
Onsite :	N/R
Quality Assurance :	N/R
RCRA Flag :	N
Total MMP Violations Number :	0
Total Number of Violations :	701
Total Number of Inspections :	12
Date of Most Recent Completed Inspection:	2016-09-15
Date of Most Recent Received Report :	N/R
Total Number of Final (A+H) Enforcement Actions:	14
Most Recent Effective Date of Enf Action (A+H):	2012-08-16

Map Id: B3
Direction:
Distance:
Elevation:
Relative:

Site Name : MENDOTA WWTF
BASS
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA, FRS, RFR - CA] ***(cont.)***

Envirosite ID: 9935955
EPA ID: N/R

CIWQS 2 - CA ***(cont.)***

Program :	WDRMUNILRG
Program Category :	WDR
Number of Programs :	1
Complexity :	B
Pretreatment :	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type :	Domestic wastewater
Reg Measure ID :	330730
Reg Measure Type :	WDR
Reg Measure Title :	WDR R5-2016-0054 for Mendota City, Mendota WWTF
Reg Measure Description :	N/R
SIC 1 :	4952 - Sewerage Systems
SIC 2 :	-
SIC 3 :	-
Latitude :	36.76875
Longitude :	-120.36786
Last Date in Agency List :	2022-01-18

FRS

Facility Name :	MENDOTA WWTF
Facility Address :	BASS, MENDOTA, CA 93640
County :	FRESNO

Site Details

Registry ID :	110065451521
FRS Facility URL :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-02-17

Source Description

Source Description :

The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS), EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), and Toxic Release Inventory (TRI).

FRS Environmental Interest

Source and System ID :	CA-ENVIROVIEW - 47997

RFR - CA

Facility Name :	Mendota WWTF
Facility Address :	Bass, Mendota, CA 93640
County :	Fresno
Effective Date :	2020-07-09
Adoption Date :	N/R
Termination Date :	N/R

Map Id: B3
Direction:
Distance:
Elevation:
Relative:

Site Name : MENDOTA WWTF
BASS
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, CIWQS - CA, CIWQS 2 - CA, FRS, RFR - CA] ***(cont.)***

Envirosite ID: 9935955
EPA ID: N/R

RFR - CA ***(cont.)***

Expiration/Review Date :	N/R
NPDES Number :	N/R
Order Number :	2020-0015-DWQ
WDID :	5D100109001
SIC/NAICS :	4952
Program :	SLIC, WDRMUNILRG
Regulatory Measure Status :	Active
Regulatory Measure Type :	Co-Permitee
Place/Project Type :	Wastewater Treatment Facility
Region :	SB
Design Flow :	N/R
Major/Minor :	N/R
Complexity :	N/R
TTWQ :	N/R
Number of Enforcement Actions within Five Years:	N/R
Number of Violations within Five Years:	7
Agency :	Mendota City
Agency Address :	643 Quince Street, Mendota, CA 93640
Latitude :	36.76875
Longitude :	-120.36786
Last Date in Agency List :	2022-03-07

Map Id: 4
Direction: S
Distance: 0.008 mi., 44 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : 1X NORTH COUNTY BANK
SW CORNER OF JEFFERSON AND MURIETTA | MURRIETA, CA 92362

Database(s) : [HAZNET - CA, HIST HAZNET - CA, HWG - CA]

Envirosite ID: 41077587
EPA ID: CAC000635112

HAZNET - CA

Facility Name :	1X NORTH COUNTY BANK
Facility Address :	SW CORNER OF JEFFERSON AND, MURIETTA, CA 92362
County :	RIVERSIDE

Site Details

Generator EPA ID :	CAC000635112
Active :	Inactive
Category :	STATE
Facility Types :	N/R
Type :	TEMPORARY
Contact Name :	N/R
Contact Phone :	N/R
Facility Mailing Address :	C/O NOGLE ONUFER ASSOC. ARCH, SAN DIEGO, CA 921100000
Latitude :	36.65432000
Longitude :	-120.38802000
Agency Hyperlink :	Click here for hyperlink provided by the agency.

Map Id: 4
Direction: S
Distance: 0.008 mi., 44 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : 1X NORTH COUNTY BANK
SW CORNER OF JEFFERSON AND
MURIETTA | MURRIETA, CA 92362

Database(s) : [HAZNET - CA, HIST HAZNET - CA, HWG - CA] ***(cont.)***

Envirosite ID: 41077587
EPA ID: CAC000635112

HAZNET - CA ***(cont.)***

Last Date in Agency List :	2021-07-08

HIST HAZNET - CA

Facility Name :	1X NORTH COUNTY BANK
Facility Address :	SW CORNER OF JEFFERSON AND, MURRIETA, 92362
ID Number :	CAC000635112
Last Date in Agency List :	2014-11-17

HWG - CA

Facility Name :	1X NORTH COUNTY BANK
Facility Address :	SW CORNER OF JEFFERSON AND, MURIETTA, CA 92362
County :	RIVERSIDE
EPA ID :	CAC000635112
Status :	Inactive
Category :	STATE
Type :	TEMPORARY
Facility Type :	N/R
Mailing Address :	C/O NOGLE ONUFER ASSOC. ARCH, SAN DIEGO, CA 921100000
Owner Name :	CORPORATION
Owner Address :	N/A
Operator Name :	JOSEPH HOLASEK/CONSULTANT
Operator Address :	N/A
Latitude :	36.65432
Longitude :	-120.38802

Map Id: 5
Direction: S
Distance: 0.027 mi., 143 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : RE ADAMS EAST LLC
8008 S DERRICK AVE
MENDOTA, CA 93640

Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN]

Envirosite ID: 43861542
EPA ID: N/R

ECHO

Facility Name :	RE ADAMS EAST LLC
Facility Address :	8008 S DERRICK AVE, MENDOTA, CA 93640
County :	FRESNO
Last Inspection Date :	N/R
Registry ID :	110071136136
FIPS Code :	N/R
EPA Region :	09
Inspection Count :	0

Map Id: 5
Direction: S
Distance: 0.027 mi., 143 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : RE ADAMS EAST LLC
8008 S DERRICK AVE
MENDOTA, CA 93640

Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN] ***(cont.)***

Envirosite ID: 43861542
EPA ID: N/R

ECHO ***(cont.)***

Last Inspection Days :	N/R
Informal Count :	0
Last Informal Action Date :	N/R
Formal Action Count :	0
Last Formal Action Date :	N/R
Total Penalties :	0
Penalty Count :	N/R
Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	No Violation Identified
Three-Year Compliance Status :	_____
Collection Method :	Zip Code Centroid
Reference Point :	N/R
Accuracy Meters :	10000
Derived Tribes :	N/R
Derived HUC :	N/R
Derived WBD :	N/R
Derived STCTY FIPS :	N/R
Derived Zip :	N/R
Derived CD113 :	N/R
Derived CB2010 :	N/R
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R
CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	221122 - Electric Power Distribution
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N

Map Id: 5
Direction: S
Distance: 0.027 mi., 143 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : RE ADAMS EAST LLC
8008 S DERRICK AVE
MENDOTA, CA 93640

Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN] ***(cont.)***

Envirosite ID: 43861542
EPA ID: N/R

ECHO ***(cont.)***

Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N/R
Chesapeak Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	N/R
NAA Flag :	N
Latitude :	36.761175
Longitude :	-120.382999
Last Date in Agency List :	2022-01-17

FRS

Facility Name :	RE ADAMS EAST LLC
Facility Address :	8008 S DERRICK AVE, MENDOTA, CA 93640
County :	FRESNO

Site Details

Registry ID :	110071136136
FRS Facility URL :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-02-17

Source Description

Source Description :

RCRAInfo is EPA’s comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. RCRAInfo also supports generation of the National Hazardous Waste Biennial Report. All generators and treatment, storage, and disposal facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years to support creation of the Biennial Report.

FRS Environmental Interest

Source and System ID :	RCRAINFO - CAL000465246

HWG - CA

Facility Name :	RE ADAMS EAST LLC
Facility Address :	8008 S DERRICK AVE, MENDOTA, CA 93640
County :	FRESNO

Map Id: 5
Direction: S
Distance: 0.027 mi., 143 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : RE ADAMS EAST LLC
8008 S DERRICK AVE
MENDOTA, CA 93640

Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN] ***(cont.)***

Envirosite ID: 43861542
EPA ID: N/R

HWG - CA ***(cont.)***

EPA ID :	CAL000465246
Status :	Active
Category :	STATE
Type :	PERMANENT
Facility Type :	N/R
Mailing Address :	600 E CANAL ST, RICHMOND, VA 23219
Owner Name :	RE ADAMS EAST LLC
Owner Address :	120 TREDEGAR ST, RICHMOND, VA 23219
Operator Name :	KELLY SCOTT
Operator Address :	600 E CANAL ST, RICHMOND, VA 23219
Latitude :	36.617987
Longitude :	-120.388338

RCRA_NONGEN

Facility Name :	RE ADAMS EAST LLC
Facility Address :	8008 S DERRICK AVE, MENDOTA, CA 93640
County :	FRESNO
Date Form Received by Agency :	2021-09-03
EPA ID :	CAL000465246
Mailing Address :	600 E CANAL ST, RICHMOND, VA 23219
Contact :	KELLY SCOTT
Contact Address :	600 E CANAL ST, RICHMOND, VA 23219
Contact Country :	N/R
Contact Telephone :	804-273-3513
Contact Email :	KELLY.SCOTT@DOMINIONENERGY.COM
EPA Region :	09
Land Type :	Not Reported
Source Type :	Implementer
Classification :	Not a generator, verified
Description :	Not a generator, verified
Last Date in Agency List :	2022-01-26

Owner/Operator Summary

Owner/Operator Name :	KELLY SCOTT
Owner/Operator Address :	600 E CANAL ST, RICHMOND, VA 23219
Owner/Operator Country :	N/R
Owner/Operator Telephone :	804-273-3513
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R
Legal Status :	Other land type
Owner/Operator Type :	Operator
Owner/Operator Start Date :	N/R
Owner/Operator End Date :	N/R
Owner/Operator Name :	RE ADAMS EAST LLC
Owner/Operator Address :	120 TREDEGAR ST, RICHMOND, VA 23219
Owner/Operator Country :	N/R
Owner/Operator Telephone :	804-273-3513
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R

Map Id: 5
Direction: S
Distance: 0.027 mi., 143 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : RE ADAMS EAST LLC
8008 S DERRICK AVE
MENDOTA, CA 93640

Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN] ***(cont.)***

Envirosite ID: 43861542
EPA ID: N/R

RCRA_NONGEN ***(cont.)***

Legal Status :	Other land type
Owner/Operator Type :	Owner
Owner/Operator Start Date :	N/R
Owner/Operator End Date :	N/R

Handler Activities Summary

U.S. Importer of Hazardous Waste :	N
Mixed Waste (Haz. and Radioactive) :	N/R
Recycler of Hazardous Waste :	N
Transporter of Hazardous Waste :	N
Treater, Storer or Disposer of HW :	N
Underground Injection Activity :	N
On-site Burner Exemption :	N
Furnace Exemption :	N
Used Oil Fuel Burner :	N
Used Oil Processor :	N
Used Oil Refiner :	N
Used Oil Fuel Marketer to Burner :	N
Used Oil Specification Marketer :	N
Used Oil Transfer Facility :	N
Used Oil Transporter :	N

Notices of Violations Summary

Regulation Violated :	N

Map Id: B6
Direction: NNE
Distance: 0.051 mi., 272 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : Mendota City | Mendota Solid Waste Transfer Station | Pima-Gro/Delta Diablo Sanitation
Adjacent To East Mendota; T13s, R15e, S | Bass Ave, 1 1/2 Mi Ne Of Mendota | In S's7-10,14-18, T15s,r13emdm Panoche R
Mendota, CA

Database(s) : [SWF/LF - CA]

Envirosite ID: 44276490
EPA ID: N/R

SWF/LF - CA

Facility Name :	Mendota City
Facility Address :	Adjacent To East Mendota; T13s, R15e, S, Mendota
County :	Fresno

Map Id: B6
Direction: NNE
Distance: 0.051 mi., 272 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : Mendota City | Mendota Solid Waste Transfer Station | Pima-Gro/Delta Diablo Sanitation
Adjacent To East Mendota; T13s, R15e, S | Bass Ave, 1 1/2 Mi Ne Of Mendota | In S's7-10,14-18, T15s,r13emdm Panoche R Mendota, CA

Database(s) : [SWF/LF - CA] ***(cont.)***

Envirosite ID: 44276490
EPA ID: N/R

SWF/LF - CA ***(cont.)***

Site Details

Permit Date :	N/R
Permit Status :	TBD (Pending Investigation)
Swis Number :	10-CR-0034
Land Use :	N/R
Operator :	N/R
Operator Address :	N/R
Operator Phone :	N/R
Latitude :	36.76667
Longitude :	-120.36667
Last Date in Agency List :	2022-03-14
Facility Name :	Mendota Solid Waste Transfer Station
Facility Address :	Bass Ave, 1 1/2 Mi Ne Of Mendota, Mendota
County :	Fresno

Site Details

Permit Date :	N/R
Permit Status :	Migration NULL
Swis Number :	10-AA-0027
Land Use :	N/R
Operator :	N/R
Operator Address :	N/R
Operator Phone :	N/R
Latitude :	36.76667
Longitude :	-120.36667
Last Date in Agency List :	2022-03-14

Owner Summary

Owner :	County of Fresno Planning & Res. Mgmt.
Owner Address :	N/R
Owner Phone :	(559) 262-4259
Facility Name :	Pima-Gro/Delta Diablo Sanitation
Facility Address :	In S's7-10,14-18, T15s,r13emdm Panoche R, Mendota
County :	Fresno

Site Details

Permit Date :	N/R
Permit Status :	Proposed
Swis Number :	10-AA-0175
Land Use :	N/R
Operator :	N/R
Operator Address :	N/R

Map Id: B6
Direction: NNE
Distance: 0.051 mi., 272 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : Mendota City | Mendota Solid Waste Transfer Station | Pima-Gro/Delta Diablo Sanitation
Adjacent To East Mendota; T13s, R15e, S | Bass Ave, 1 1/2 Mi Ne Of Mendota | In S's7-10,14-18, T15s,r13emdm Panoche R Mendota, CA

Database(s) : [SWF/LF - CA] ***(cont.)***

Envirosite ID: 44276490
EPA ID: N/R

SWF/LF - CA ***(cont.)***

Operator Phone :	N/R
Latitude :	36.76667
Longitude :	-120.36667
Last Date in Agency List :	2022-03-14

Map Id: 7
Direction: N
Distance: 0.434 mi., 2294 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : SILVER CREEK PACKING
2158 BASS AVE | 2158 N BASS
MENDOTA, CA 93640

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO COUNTY - CA, EPA LUST, FRS, LUST REG 5 - CA]

Envirosite ID: 329611
EPA ID: N/R

CALEPA SITES - CA

Facility Name :	SILVER CREEK PACKING
Facility Address :	2158 BASS AVE, MENDOTA, 93640
Site ID :	229829
EI ID :	T0601900104
EI Description :	Leaking Underground Storage Tank Cleanup Site
Latitude :	36.771409
Longitude :	-120.376744
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-01-07

CUPA_FRESNO COUNTY - CA

Facility Name :	SILVER CREEK PACKING COMPANY
Facility Address :	2158 N BASS, MENDOTA, 93640

Site Details

Facility ID :	FA0001437
CERS ID :	N/R
SWIS Number :	N/R
APN :	01305045S
Cross Street :	N/R
Last Date in Agency List :	2022-03-28

Map Id: 7
Direction: N
Distance: 0.434 mi., 2294 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : SILVER CREEK PACKING
2158 BASS AVE | 2158 N BASS
MENDOTA, CA 93640

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO COUNTY - CA, EPA LUST, FRS, LUST REG 5 - CA] ***(cont.)***

Envirosite ID: 329611
EPA ID: N/R

CUPA_FRESNO COUNTY - CA ***(cont.)***

Description

DESCRIPTION :	FORMER CONTAMINATED SITE/NO FURTHER ACTION UST REMOVAL/CLOSURE W/3 TANKS

EPA LUST

Facility Name :	SILVER CREEK PACKING
Facility Address :	2158 BASS AVE, MENDOTA, California 93640
County :	N/R
Facility ID :	N/R
LUST ID :	CAT0601900104
Reported Date :	N/R
Status :	No Further Action
Substance :	N/R
Closed With Residual Contamination (Tribal Only):	N/R
NFA_Letter (Tribal Only) :	N/R
Tribe (Tribal Only) :	N/R
EPA Region :	9
Estimated Population within 1500ft :	N/R
Estimated Private Domestic Wells within 1500ft:	N/R
Within Source Water Protection Area (SPA):	N/R
SPA Public Water System and Facility ID:	N/R
SPA Water Type :	N/R
SPA Facility Type :	N/R
SPA HUC12 :	N/R
Within Groundwater Wellhead Protection Area (WHPA):	N/R
WHPA Public Water System and Facility ID:	N/R
WHPA Water Type :	N/R
WHPA Facility Type :	N/R
WHPA HUC12 :	N/R
Within Estimated 100-year Floodplain:	N/R
Latitude :	36.776670000000003
Longitude :	-120.373149999999001
Last Date in Agency List :	2022-01-04

FRS

Facility Name :	SILVER CREEK PACKING
Facility Address :	2158 BASS AVE, MENDOTA, CA 93640
County :	FRESNO

Site Details

Registry ID :	110066123545
FRS Facility URL :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-02-17

Map Id: 7
Direction: N
Distance: 0.434 mi., 2294 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : SILVER CREEK PACKING
2158 BASS AVE | 2158 N BASS
MENDOTA, CA 93640

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO COUNTY - CA, EPA LUST, FRS, LUST REG 5 - CA] ***(cont.)***

Envirosite ID: 329611
EPA ID: N/R

FRS ***(cont.)***

Source Description

Source Description :

The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS), EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), and Toxic Release Inventory (TRI).

FRS Environmental Interest

Source and System ID :	CA-ENVIROVIEW - 229829

LUST REG 5 - CA

Facility Name :	SILVER CREEK PACKING
Facility Address :	2158 BASS AVE, MENDOTA, CA 93640
County :	Fresno

Site Details

Status Date :	1996-10-09
Status :	Completed - Case Closed
Begin Date :	1988-07-05
Global ID :	T0601900104
Region :	REGION 5F
Site History :	N/R
RB Case Number :	5T10000105
Potential Media Affected :	Aquifer used for drinking water supply
Potential Contaminants of Concern :	Gasoline
Local Agency :	FRESNO COUNTY
Local Case Number :	FA0001437
Lead Agency :	CENTRAL VALLEY RWQCB (REGION 5F)
File Location :	N/R
CUF Case :	YES
Caseworker :	JWH
Case Type :	LUST Cleanup Site
How Discovered :	Tank Closure
How Discovered Description :	N/R
Stop Method :	N/R
Stop Description :	N/R
Calwater Watershed Name :	South Valley Floor - Westlands - Huron (551.11)
DWR Groundwater Subbasin Name :	San Joaquin Valley - Delta-Mendota (5-022.07)
Disadvantaged Community :	N/R
Latitude :	36.771409
Longitude :	-120.376744
Agency URL :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-02-21

Map Id: 7
Direction: N
Distance: 0.434 mi., 2294 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : SILVER CREEK PACKING
2158 BASS AVE | 2158 N BASS
MENDOTA, CA 93640

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO COUNTY - CA, EPA LUST, FRS, LUST REG 5 - CA] ***(cont.)***

Envirosite ID: 329611
EPA ID: N/R

LUST REG 5 - CA ***(cont.)***

Contacts Summary

Global ID :	T0601900104
Contact Name :	JEFFREY HANNEL
Contact Type :	Regional Board Caseworker
Organization Name :	CENTRAL VALLEY RWQCB (REGION 5F)
Address :	1685 E STREET
City :	FRESNO
Phone Number :	N/R
Email :	jhannel@waterboards.ca.gov

Global ID :	T0601900104
Contact Name :	FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV
Contact Type :	Local Agency Caseworker
Organization Name :	FRESNO COUNTY
Address :	1221 Fulton Street
City :	Fresno
Phone Number :	N/R
Email :	environmentalhealth@fresnocountyca.gov

Regulatory Activities

Date :	1996-10-09
Global ID :	T0601900104
Action Type :	ENFORCEMENT
Action :	Closure/No Further Action Letter

Date :	1988-07-13
Global ID :	T0601900104
Action Type :	Other
Action :	Leak Reported

Date :	1988-07-05
Global ID :	T0601900104
Action Type :	Other
Action :	Leak Discovery

Status History

Status Date :	1996-10-09
Global ID :	T0601900104
Status :	Completed - Case Closed

Status Date :	1994-06-01
Global ID :	T0601900104
Status :	Open - Remediation

Status Date :	1988-07-13
Global ID :	T0601900104

Map Id: 7
Direction: N
Distance: 0.434 mi., 2294 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : SILVER CREEK PACKING
2158 BASS AVE | 2158 N BASS
MENDOTA, CA 93640

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO COUNTY - CA, EPA LUST, FRS, LUST REG 5 - CA] ***(cont.)***

Envirosite ID: 329611
EPA ID: N/R

LUST REG 5 - CA ***(cont.)***

Status :	Open - Site Assessment
Status Date :	1988-07-05
Global ID :	T0601900104
Status :	Open - Case Begin Date

Map Id: 8
Direction: N
Distance: 0.634 mi., 3346 ft.
Elevation: 166 ft.
Relative: Lower

Site Name : MENDOTA SCHOOL SITE C | MENDOTA SCHOOL SITE
N. OF BASS AVE. & E. OF BARBOZA ST.
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA, NFA - CA, SCH - CA]

Envirosite ID: 271459
EPA ID: N/R

CALEPA SITES - CA

Facility Name :	MENDOTA SCHOOL SITE
Facility Address :	N. OF BASS AVE. & E. OF BARBOZA ST., MENDOTA, 93640
Site ID :	339954
EI ID :	60001768
EI Description :	School Investigation
Latitude :	36.767252
Longitude :	-120.381875
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-01-07

ENVIROSTOR - CA

Facility Name :	Mendota School Site C
Facility Address :	N. of Bass Ave. & E. of Barboza St., Mendota, CA 93640
County :	FRESNO

Site Details

Cleanup Date :	2013-03-21
Cleanup Status :	No Further Action
Site Type :	School Investigation
Site Type Detailed :	School
Acreage :	14.2

Map Id: 8
Direction: N
Distance: 0.634 mi., 3346 ft.
Elevation: 166 ft.
Relative: Lower

Site Name : MENDOTA SCHOOL SITE C | MENDOTA SCHOOL SITE
N. OF BASS AVE. & E. OF BARBOZA ST.
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA, NFA - CA, SCH - CA] ***(cont.)***

Envirosite ID: 271459
EPA ID: N/R

ENVIROSTOR - CA ***(cont.)***

APN :

013-431-01S, 013-431-02S, 013-431-03S, 013-431-04S, 013-431-05S, 013-431-06S, 013-431-07S, 013-431-08S, 013-431-08S, 013-431-09S, 013-431-10S, 013-431-11S, 013-431-12S, 013-431-13S, 013-431-14S, 013-431-15S, 013-431-16S, 013-431-17S, 013-431-18S, 013-431-19S, 013-431-20S, 013-431-21S, 013-431-22S, 013-431-23S, 013-431-24S, 013-431-25S, 013-431-26S, 013-432-01S, 013-432-02S, 013-432-03S, 013-432-04S, 013-432-05S, 013-432-06S, 013-432-07S, 013-432-08S, 013-432-09S, 013-432-10S, 013-433-01S, 013-433-02S, 013-433-03S, 013-433-04S, 013-433-05S, 013-433-06S, 013-433-07S, 013-433-08S, 013-433-09S, 013-433-10S, 013-433-11S, 013-433-12S, 013-434-01S, 013-434-02S, 013-434-03S, 013-434-04S, 013-434-05S, 013-434-06S, 013-434-07S, 013-434-08S, 013-434-09S, 013-434-10S, 013-434-11S, 013-434-12S, 013-434-13S, 013-434-14S, 013-434-15S

National Priorities List :	NO
Regulatory Agencies Involved :	DTSC - Site Cleanup Program
Lead Agency :	DTSC - Site Cleanup Program
Project Manager :	N/R
Supervisor :	Juan Koponen
Office :	Northern California Schools & Santa Susana
Envirostor ID :	60001768
Site Code :	104709
Assembly :	31
Senate :	12
Congressional District :	21
Special Program :	N/R
Past Uses :	AGRICULTURAL - ROW CROPS
Potential COC :	Arsenic; DDE; Toxaphene; DDT; Chlordane; DDD; Dieldrin
Confirmed COC :	No Contaminants found
Potential Media Affected :	Soil; No Media Affected
Restricted Use :	NO
Site Management Req :	N/R
Funding :	School District
Latitude :	36.767252
Longitude :	-120.381875
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-03-21

Alias :

APN - 013-431-01S
APN - 013-431-02S
APN - 013-431-03S
APN - 013-431-04S
APN - 013-431-05S
APN - 013-431-06S
APN - 013-431-07S
APN - 013-431-08S
APN - 013-431-09S
APN - 013-431-10S
APN - 013-431-11S
APN - 013-431-12S
APN - 013-431-13S
APN - 013-431-14S
APN - 013-431-15S
APN - 013-431-16S
APN - 013-431-17S
APN - 013-431-18S
APN - 013-431-19S

Map Id: 8
Direction: N
Distance: 0.634 mi., 3346 ft.
Elevation: 166 ft.
Relative: Lower

Site Name : MENDOTA SCHOOL SITE C | MENDOTA SCHOOL SITE
N. OF BASS AVE. & E. OF BARBOZA ST.
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA, NFA - CA, SCH - CA] ***(cont.)***

Envirosite ID: 271459
EPA ID: N/R

ENVIROSTOR - CA ***(cont.)***

APN - 013-431-20S
APN - 013-431-21S
APN - 013-431-22S
APN - 013-431-23S
APN - 013-431-24S
APN - 013-431-25S
APN - 013-431-26S
APN - 013-432-01S
APN - 013-432-02S
APN - 013-432-03S
APN - 013-432-04S
APN - 013-432-05S
APN - 013-432-06S
APN - 013-432-07S
APN - 013-432-08S
APN - 013-432-09S
APN - 013-432-10S
APN - 013-433-01S
APN - 013-433-02S
APN - 013-433-03S
APN - 013-433-04S
APN - 013-433-05S
APN - 013-433-06S
APN - 013-433-07S
APN - 013-433-08S
APN - 013-433-09S
APN - 013-433-10S
APN - 013-433-11S
APN - 013-433-12S
APN - 013-434-01S
APN - 013-434-02S
APN - 013-434-03S
APN - 013-434-04S
APN - 013-434-05S
APN - 013-434-06S
APN - 013-434-07S
APN - 013-434-08S
APN - 013-434-09S
APN - 013-434-10S
APN - 013-434-11S
APN - 013-434-12S
APN - 013-434-13S
APN - 013-434-14S
APN - 013-434-15S
Envirostor ID Number - 60001768
Project Code (Site Code) - 104709

Completed Activities

Completed Date :	2013-03-22
Area Name :	PROJECT WIDE
Sub Area Name :	N/R
Document Type :	Cost Recovery Closeout Memo
Comments :	PM completed CRU for Mendota School Site C and forwarded to HQ.

Map Id: 8
Direction: N
Distance: 0.634 mi., 3346 ft.
Elevation: 166 ft.
Relative: Lower

Site Name : MENDOTA SCHOOL SITE C | MENDOTA SCHOOL SITE
N. OF BASS AVE. & E. OF BARBOZA ST.
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA, NFA - CA, SCH - CA] ***(cont.)***

Envirosite ID: 271459
EPA ID: N/R

ENVIROSTOR - CA ***(cont.)***

Completed Date : 2013-03-21
Area Name : PROJECT WIDE
Sub Area Name : N/R
Document Type : Preliminary Endangerment Assessment Report

Comments : PEA Report approved by DTSC on March 21, 2013, with a no-further-action determination.

Completed Date : 2012-10-30
Area Name : PROJECT WIDE
Sub Area Name : N/R
Document Type : Preliminary Endangerment Assessment Workplan
Comments : PM approved PEA Workplan.

Completed Date : 2012-10-12
Area Name : PROJECT WIDE
Sub Area Name : N/R
Document Type : Environmental Oversight Agreement
Comments : N/R

Completed Date : 2012-09-07
Area Name : PROJECT WIDE
Sub Area Name : N/R
Document Type : Other Report
Comments : Uploaded Phase I Report for background and scoping only.

NFA - CA

Facility Name : Mendota School Site C
Facility Address : N. of Bass Ave. & E. of Barboza St., Mendota, CA 93640
County : FRESNO

Cleanup Date : 2013-03-21
Cleanup Status : No Further Action
Site Type : School Investigation
Site Type Detailed : School
Acreage : 14.2

APN :

013-431-01S, 013-431-02S, 013-431-03S, 013-431-04S, 013-431-05S, 013-431-06S, 013-431-07S, 013-431-08S, 013-431-08S, 013-431-09S, 013-431-10S, 013-431-11S, 013-431-12S, 013-431-13S, 013-431-14S, 013-431-15S, 013-431-16S, 013-431-17S, 013-431-18S, 013-431-19S, 013-431-20S, 013-431-21S, 013-431-22S, 013-431-23S, 013-431-24S, 013-431-25S, 013-431-26S, 013-432-01S, 013-432-02S, 013-432-03S, 013-432-04S, 013-432-05S, 013-432-06S, 013-432-07S, 013-432-08S, 013-432-09S, 013-432-10S, 013-433-01S, 013-433-02S, 013-433-03S, 013-433-04S, 013-433-05S, 013-433-06S, 013-433-07S, 013-433-08S, 013-433-09S, 013-433-10S, 013-433-11S, 013-433-12S, 013-434-01S, 013-434-02S, 013-434-03S, 013-434-04S, 013-434-05S, 013-434-06S, 013-434-07S, 013-434-08S, 013-434-09S, 013-434-10S, 013-434-11S, 013-434-12S, 013-434-13S, 013-434-14S, 013-434-15S

National Priorities List : NO
Regulatory Agencies Involved : DTSC - Site Cleanup Program

Map Id: 8
Direction: N
Distance: 0.634 mi., 3346 ft.
Elevation: 166 ft.
Relative: Lower

Site Name : MENDOTA SCHOOL SITE C | MENDOTA SCHOOL SITE
N. OF BASS AVE. & E. OF BARBOZA ST.
MENDOTA | Mendota, CA 93640

Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA, NFA - CA, SCH - CA] ***(cont.)***

Envirosite ID: 271459
EPA ID: N/R

NFA - CA ***(cont.)***

Lead Agency :	DTSC - Site Cleanup Program
Project Manager :	N/R
Supervisor :	Juan Koponen
Office :	Northern California Schools & Santa Susana
Envirostor ID :	60001768
Site Code :	104709
Assembly :	31
Senate :	12
Congressional District :	21
Special Program :	N/R
Past Uses :	AGRICULTURAL - ROW CROPS
Potential COC :	Arsenic; DDE; Chlordane; Toxaphene; Dieldrin; DDT; DDD
Confirmed COC :	No Contaminants found
Potential Media Affected :	Soil; No Media Affected
Restricted Use :	NO
Site Management Req :	N/R
Funding :	School District
Latitude :	36.76725151
Longitude :	-120.38187504
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-03-21

SCH - CA

Facility Name :	MENDOTA SCHOOL SITE C
Facility Address :	N. OF BASS AVE. & E. OF BARBOZA ST., MENDOTA, 93640
County :	FRESNO
Status Date :	2013-03-21
Status :	NO FURTHER ACTION
Envirostor ID :	60001768
School District :	MENDOTA UNIFIED
Program Type :	SCHOOL INVESTIGATION
Site Code :	104709
CalEnviroScreen Score :	91-95%
Latitude :	36.767252
Longitude :	-120.381875
Last Date in Agency List :	2022-02-02

Map Id: 9
Direction: NNE
Distance: 0.962 mi., 5078 ft.
Elevation: N/R
Relative: N/R

Site Name : National Public Lands - Bakersfield Field Office
36.76302, -120.350407
CA

Database(s) : [FEDLAND]

Envirosite ID: 43505836
EPA ID: N/R

FEDLAND

Facility Name :	National Public Lands - Bakersfield Field Office
Facility Address :	CA
Source Date :	2019-08-23
Category :	Fee
Loc Name :	Bakersfield Field Office
Owner Name :	UNK
Local Owner :	N/R
Owner Type :	UNK
Manager Type :	FED
Manager Name :	BLM
Local Manager :	BLM
Designation Type :	PUB
Local Designation :	N/R
GIS Acres :	620790
Source Protected Area ID :	N/R
WDPA Site :	0
Public Access :	OA
Access Source :	GAP - Default
GAP Status Date :	2020
GAP Status :	3
GAP Status Source :	GAP - Default
IUCN Category Date :	2020
IUCN Category :	Other Conservation Area
IUCN Category Source :	GAP - Default
Date of Establishment :	N/R
Access Date :	2020
Easement Holder :	N/R
Easement Holder Type :	N/R
Comments :	N/R
Last Date in Agency List :	2022-03-02

ENVIROSITE ID	NAME	ADDRESS	CITY	ZIP	DATABASE(S)
9012916	ANDERSON COALINGA	NW 1/4,SEC 8,T20S,R15E,MD...			HIST LDS - CA
9005626	COALINGA	SECTION 14, T20S, R14E, M...			LDS - CA
8998964	COALINGA, CMS	SECTION 31, T19S, R15E, M...			HIST LDS - CA
8999002	COALINGA, CMS-AZTEC	SEC 31, T19S, R15E, MDB&M			HIST LDS - CA
8999038	COALINGA, PENN-ZIER	SEC 1, T20S, R14E, MDB&M			HIST LDS - CA
8999095	COALINGA, SEC 2	SECTION 2, T19S, R15E, MD...			CIWQS - CA, HIST LDS ...
8999112	COALINGA, SEC 26	SEC 26, T19S, RISE, MDB&M			HIST LDS - CA
8998926	Coalinga, Section 35A | C...	Sec 35, T19S, R15E, Mdb&M			HIST LDS - CA, RFR - CA
9007915	JACALITOS	SEC 27, T21S, R15E, MDB&M			CIWQS - CA, LDS - CA
6942048	Mt. Campbell Rifle Range ...	N/R			HIST MCS - CA, MCS - CA
9010964	PLEASANT VALLEY, GATCHELL	SECTION 20, T20S, R16E, M...			CIWQS - CA, LDS - CA
9011290	RAISIN CITY FULLER	SW1/4,NE1/4,SEC13,T15S,R1...			CIWQS - CA, LDS - CA
9011313	RAISIN CITY HAMILTON (2)	N1/2SE1/4,NW1/4,SEC13,T15...			CIWQS - CA, LDS - CA
9011345	RAISIN CITY VARIOUS LEASE...	T15S, R17E & 18E, MDB&M			CIWQS - CA, LDS - CA
9011371	RAISIN CITY, EAGLE SUNSET	SW1/4,SEC11, T15S, R17E, ...			CIWQS - CA, LDS - CA
9011389	RAISIN CITY, EAGLE-SUNSET...	SW1/4NW1/4, SEC19, T15S, ...			CIWQS - CA, LDS - CA
9011416	RAISIN CITY, EAGLE-SUNSET...	SEC 19, T15S, R18E, MDB&M			CIWQS - CA, LDS - CA
6921790	RAISIN CITY, HAMILTON	SEC 13, T15S, R18, MDB&M			CIWQS - CA, CIWQS 2 ...
9011440	RAISIN CITY, HAMILTON	SE1/2,NW1/4,SEC13,T15S,R1...			CIWQS - CA, LDS - CA
9011463	RAISIN CITY, NCC	SE1/4, SE1/4, SEC10, T15S...			CIWQS - CA, LDS - CA
9011496	RAISIN CITY, PROPERTIES, ...	SEC 18, T15S, R18E, MDB&M			CIWQS - CA, LDS - CA
9011516	RAISIN CITY, RAISIN CITY ...	SE1/4,NW1/4,SEC19,T15S,R1...			CIWQS - CA, LDS - CA
9011543	RAISIN CITY, RIPPERDAN (0...	NE1/4,SE1/4,SEC13,T15S,R1...			CIWQS - CA, LDS - CA
9011565	RAISIN CITY, RIPPERDAN (0...	NE1/4,SW1/4,SEC13,T15S,R1...			CIWQS - CA, LDS - CA
9011587	RAISIN CITY, RIPPERDAN (0...	NW1/4,SE1/4,SEC13,T15S,R1...			CIWQS - CA, LDS - CA
9011610	RAISIN CITY, RIPPERDAN (N...	SW1/4,SW1/4,SEC 13,T15S,R...			CIWQS - CA, LDS - CA
9011644	RAISIN CITY, RIPPERDAN 05	SEC 13, T15S, R17E, MDB&M			CIWQS - CA, LDS - CA
9011667	RAISIN CITY, SURFLUH (05)	NE1/4,NW1/4,SEC14,T15S,R1...			CIWQS - CA, LDS - CA
9011691	RAISIN CITY, SURFLUH (08)	SE1/4,NE1/4,SEC14,T15S,R1...			LDS - CA
8248096	TRANQUILITY DUMPSITE	NE CORNER JAMES & MANNING	TRANQUILITY	93668	ENVIROSTOR - CA, HIS...

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 12/30/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/22/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/28/2022

RCRA_TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 12/30/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/22/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/28/2022

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

AST PBS: Bulk petroleum terminals with a total bulk storage capacity of 50,000 barrels or more.

Agency Version Date: 02/22/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/20/2022
Agency: Department of Homeland Security
Agency Contact: 202-853-5361
Most Recent Contact: 02/22/2022

EPA UST: Facilities listed in the EPA UST Finder database

Agency Version Date: 11/19/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 05/12/2022
Agency: EPA
Agency Contact: (202) 566-1667
Most Recent Contact: 02/15/2022

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 10/08/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/27/2022
Agency: FEMA
Agency Contact: 202-212-5283
Most Recent Contact: 04/01/2022

HIST INDIAN UST R6: Historical Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 12/03/2021
Agency Update Frequency: Semi Annually
Planned Next Contact: 05/27/2022
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 03/01/2022

HIST INDIAN UST R7: Historical Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 08/10/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 05/12/2022
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 02/15/2022

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 01/18/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/15/2022
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 10/18/2021

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 02/14/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/12/2022
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 02/14/2022

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 01/21/2022

INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 02/14/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 05/12/2022
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 02/14/2022

INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 01/31/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/28/2022
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 01/31/2022

INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 03/01/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 05/27/2022
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 03/01/2022

INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 01/31/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/28/2022
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 01/31/2022

INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 01/17/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/14/2022
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 01/17/2022

INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 01/17/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/14/2022
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 01/17/2022

AST - CA: Listing of tank facilities that are subject to the California Aboveground Petroleum Storage Act

Agency Version Date: 10/04/2021
Agency Update Frequency: No update
Planned Next Contact: 06/23/2022
Agency: California Environmental Protection Agency Unified Program Section
Agency Contact: 916-327-5092
Most Recent Contact: 03/28/2022

AST_KERN COUNTY - CA: Kern County aboveground storage tank sites

Agency Version Date: 12/17/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/13/2022
Agency: Kern County Environment Health Division
Agency Contact: 661-862-8774
Most Recent Contact: 03/15/2022

AST_ORANGE COUNTY - CA: Orange county aboveground storage tanks

Agency Version Date: 02/22/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/20/2022
Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 02/22/2022

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

AST_PLACER COUNTY - CA: Placer county aboveground storage tank sites

Agency Version Date: 01/25/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/20/2022
Agency: Placer County Environmental Health
Agency Contact: 530-745-2350
Most Recent Contact: 01/25/2022

AST_YOLO COUNTY - CA: Yolo county above ground storage tank sites listing

Agency Version Date: 01/31/2022
Agency Update Frequency: Annually
Planned Next Contact: 04/27/2022
Agency: Yolo County Environmental Health
Agency Contact: 530-666-8646
Most Recent Contact: 01/31/2022

CLOSED UST_VENTURA COUNTY - CA: Ventura County closed underground storage tank site listing

Agency Version Date: 02/01/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/29/2022
Agency: Environmental Health Division
Agency Contact: 805-654-2815
Most Recent Contact: 02/01/2022

FID UST - CA: The State Water Resource Control Board's Facility Inventory Database underground storage tank locations listing

Agency Version Date: 03/10/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/06/2022
Agency: California Environmental Protection Agency
Agency Contact: 916-341-5791
Most Recent Contact: 03/10/2022

HIST AST - CA: Historical listing of tank facilities that are subject to the California Aboveground Petroleum Storage Act

Agency Version Date: 07/09/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 06/30/2022
Agency: California Environmental Protection Agency Unified Program Section
Agency Contact: 916-327-5092
Most Recent Contact: 04/06/2022

HIST UST - CA: Historical UST listing

Agency Version Date: 09/24/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/16/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 03/21/2022

HIST UST_EL SEGUNDO CITY - CA: List of City of El Segundo Underground Storage Tanks that are no longer in current agency list.

Agency Version Date: 01/29/2018
Agency Update Frequency: Annually
Planned Next Contact: 06/17/2022
Agency: City of El Segundo Fire Department
Agency Contact: 310-524-2242
Most Recent Contact: 03/22/2022

HIST UST_KERN COUNTY - CA: List of Kern County underground storage tank records that is no longer in current agency list.

Agency Version Date: 11/28/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/31/2022
Agency: Kern County Environment Health Division
Agency Contact: 661-862-8774
Most Recent Contact: 03/04/2022

HIST UST_SUTTER COUNTY - CA: List of Sutter County Underground Storage Tank records that are no longer in current agency list.

Agency Version Date: 10/22/2018
Agency Update Frequency: Annually
Planned Next Contact: 06/30/2022
Agency: Sutter County Department of Agriculture
Agency Contact: 530-822-7400
Most Recent Contact: 04/06/2022

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

TANKS_CONTRA COSTA COUNTY - CA: Listing of aboveground storage tanks in Contra Costa County

Agency Version Date: 02/04/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/03/2022
Agency: Contra Costa Health Services Department
Agency Contact: 925-335-3200
Most Recent Contact: 02/04/2022

UST - CA: Listing of active underground storage tank facilities

Agency Version Date: 03/03/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/30/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: N/R
Most Recent Contact: 03/03/2022

UST_ALAMEDA COUNTY - CA: Alameda County Underground Storage Tank sites

Agency Version Date: 03/03/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/30/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 03/03/2022

UST_CITY OF LONG BEACH - CA: City of Long Beach underground storage tank sites

Agency Version Date: 06/29/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 05/06/2022
Agency: City of Long Beach Fire Department
Agency Contact: 562-570-6782
Most Recent Contact: 02/08/2022

UST_CITY OF TORRANCE - CA: City of Torrance underground storage tank sites

Agency Version Date: 05/07/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: City of Torrance Fire Department
Agency Contact: 310-618-2872
Most Recent Contact: 01/25/2022

UST_EL SEGUNDO CITY - CA: City of El Segundo Underground Storage Tanks

Agency Version Date: 01/29/2018
Agency Update Frequency: Annually
Planned Next Contact: 06/27/2022
Agency: City of El Segundo Fire Department
Agency Contact: 310-524-2242
Most Recent Contact: 03/31/2022

UST_KERN COUNTY - CA: Kern County underground storage tank sites

Agency Version Date: 12/17/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/13/2022
Agency: Kern County Environment Health Division
Agency Contact: 661-862-8774
Most Recent Contact: 03/15/2022

UST_MARIN COUNTY - CA: Marin county underground storage tank sites

Agency Version Date: 08/04/2018
Agency Update Frequency: Semi Annually
Planned Next Contact: 05/02/2022
Agency: Marin County Department of Public Works
Agency Contact: 415-473-5051
Most Recent Contact: 02/04/2022

UST_MENDOCINO COUNTY - CA: A listing of underground storage tank locations in Mendocino County

Agency Version Date: 03/03/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/30/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 03/03/2022

UST_NAPA COUNTY - CA: Underground storage tank sites located in Napa county.

Agency Version Date: 03/03/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/30/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 03/03/2022

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

UST_ORANGE COUNTY - CA: Orange county underground storage tanks

Agency Version Date: 02/11/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/10/2022
Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 02/11/2022

UST_PLACER COUNTY - CA: Placer county underground storage tank sites

Agency Version Date: 01/25/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/20/2022
Agency: Placer County Environmental Health
Agency Contact: 530-745-2350
Most Recent Contact: 01/25/2022

UST_RIVERSIDE COUNTY - CA: Riverside county underground storage tank sites

Agency Version Date: 03/03/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/30/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: N/R
Most Recent Contact: 03/03/2022

UST_SAN FRANCISCO COUNTY - CA: San Francisco county Underground storage tank sites listing

Agency Version Date: 02/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/23/2022
Agency: San Francisco Department of Public Health
Agency Contact: N/R
Most Recent Contact: 02/25/2022

UST_SAN JOAQUIN COUNTY - CA: San Joaquin County Underground storage tank sites listing

Agency Version Date: 03/03/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 05/30/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 03/03/2022

UST_SOLANO COUNTY - CA: Solano county underground storage tank listing

Agency Version Date: 03/03/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/30/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: N/R
Most Recent Contact: 03/03/2022

UST_SUTTER COUNTY - CA: Sutter county underground storage tank listing

Agency Version Date: 01/21/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/19/2022
Agency: Sutter County Department of Agriculture
Agency Contact: 530-822-7400
Most Recent Contact: 01/21/2022

UST_YOLO COUNTY - CA: Yolo county underground storage tank sites listing

Agency Version Date: 11/09/2021
Agency Update Frequency: Annually
Planned Next Contact: 05/02/2022
Agency: Yolo County Environmental Health
Agency Contact: 530-666-8646
Most Recent Contact: 02/04/2022

FEDERAL CERCLIS LIST

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 01/28/2022

FEDERAL CERCLIS LIST (cont.)

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 01/28/2022

EPA SAA: Listing of Sites with Superfund Alternative Approach Agreements.

Agency Version Date: 11/01/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 04/25/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 01/27/2022

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8712
Most Recent Contact: 01/28/2022

SEMS_8R_ACTIVE SITES: The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

SEMS_8R_ARCHIVED SITES: The Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 12/30/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/22/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 03/28/2022

HIST CORRACTS 2: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/23/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 02/24/2022

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

FEDERAL DELISTED NPL SITE LIST (cont.)

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

SEMS_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP: Sites in the EPA Landfill Methane Outreach Program

Agency Version Date: 03/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/21/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 03/25/2022

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST: Releases listed in the EPA UST Finder database

Agency Version Date: 11/19/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 05/12/2022
Agency: EPA
Agency Contact: (202) 566-1667
Most Recent Contact: 02/15/2022

HIST INDIAN LUST R4: Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 08/23/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 05/12/2022
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 02/15/2022

HIST INDIAN LUST R8: Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 08/16/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 05/04/2022
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 02/07/2022

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 10/21/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 04/15/2022
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 01/18/2022

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 02/14/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/12/2022
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 02/14/2022

INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 01/21/2022

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 02/14/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 05/12/2022
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 02/14/2022

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 01/31/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/28/2022
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 01/31/2022

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 02/03/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/02/2022
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 02/03/2022

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 08/10/2021
Agency Update Frequency: Varies
Planned Next Contact: 04/28/2022
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 01/31/2022

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 02/04/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/03/2022
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 02/04/2022

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 01/17/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/14/2022
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 01/17/2022

HIST LUST_SONOMA COUNTY - CA: List of Sonoma County leaking underground storage tank sites that is no longer in current agency list.

Agency Version Date: 08/23/2018
Agency Update Frequency: Annually
Planned Next Contact: 06/27/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 03/31/2022

LUFT_ALAMEDA COUNTY - CA: Listing of Alameda County leaking underground fuel tank sites

Agency Version Date: 11/18/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 05/16/2022
Agency: Alameda County Environmental Health Services
Agency Contact: 510-567-6721
Most Recent Contact: 02/17/2022

LUST ORANGE COUNTY - CA: Orange county leaking underground storage tanks

Agency Version Date: 07/29/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 04/18/2022
Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 01/19/2022

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

LUST REG 1 - CA: Leaking underground storage tanks in Region 1: Del Norte Glenn Humboldt Lake Marin Mendocino Modoc Siskiyou Sonoma andTrinity counties.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LUST REG 2 - CA: Leaking underground storage tanks in Region 2: Alameda Contra Costa San Francisco Santa Clara (north of Morgan Hill) San Mateo Marin Sonoma Napa Solano counties

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LUST REG 3 - CA: Leaking underground storage tanks in Region 3: Santa Clara (south of Morgan Hill) San Mateo (southern part) Santa Cruz SanBenito Monterey Kern (some parts) San Luis Obispo Santa Barbara Ventura(northern part) counties

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LUST REG 4 - CA: Leaking underground storage tanks in Region 4: Los Angeles Ventura counties (Small parts of Kern and Santa Barbara counties).

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LUST REG 5 - CA: Leaking underground storage tanks in Region 5: Modoc Shasta Lassen Plumas Butte Glen Colusa Lake Sutter Yuba Sierra Nevada Placer Yolo Napa (Northeast) Solano (West) Sacramento El Dorado Amador Calaveras San Joaquin Contra Costa (East) Stanislaus Toulumne Merced Mariposa Madera Kings Fresno Tulare Kern (Very small portions of San Benito and SanLuis Obispo) counties

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LUST REG 6 - CA: Leaking underground storage tanks in Region 6: Modoc (East) Lassen (East side and Eagle Lake) Sierra Nevada Placer El Dorado Alpine Mono Inyo Kern (East) San Bernardino Los Angeles (Northeast corner) counties

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LUST REG 7 - CA: Leaking underground storage tanks in Region 7: Imperial San Bernardino Riverside and San Diego counties.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LUST REG 8 - CA: Leaking underground storage tanks in Region 8: Orange Riverside San Bernardino counties.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

LUST REG 9 - CA: Leaking underground storage tanks in Region 9: San Diego Imperial Riverside counties.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LUST_HAZMAT_YOLO COUNTY - CA: Yolo county leaking underground storage tank sites listing

Agency Version Date: 01/21/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/19/2022
Agency: Yolo County Environmental Health
Agency Contact: 530-666-8646
Most Recent Contact: 01/21/2022

LUST_KERN COUNTY - CA: Kern County leaking underground tank sites

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: CA Gov geotracker state water resources control bo
Agency Contact: 916-341-5791
Most Recent Contact: 01/21/2022

LUST_RIVERSIDE COUNTY - CA: Riverside county leaking underground storage tank sites

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 01/21/2022

LUST_SAN FRANCISCO COUNTY - CA: A listing of leaking underground storage tank sites located in San Francisco county.

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 01/21/2022

LUST_SAN MATEO COUNTY - CA: San Mateo county leaking underground storage tank listing

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 01/21/2022

LUST_SOLANO COUNTY - CA: Solano county leaking underground storage tank listing

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 01/21/2022

LUST_SONOMA COUNTY - CA: Sonoma county leaking underground storage tank sites listing

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 01/21/2022

LUST_SUTTER COUNTY - CA: Sutter County Leaking Underground Storage Tanks

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 01/21/2022

LUST_VENTURA COUNTY - CA: Ventura County leaking underground storage tank site listing

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: CA Gov geotracker state water resources control boa
Agency Contact: 916-341-5791
Most Recent Contact: 01/21/2022

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

SLIC REG 1 - CA: List of Region 1 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SLIC REG 2 - CA: List of Region 2 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SLIC REG 3 - CA: List of Region 3 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SLIC REG 4 - CA: List of Region 4 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SLIC REG 5 - CA: List of Region 5 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SLIC REG 6 - CA: List of Region 6 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database that is no longer in current agency list.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SLIC REG 7 - CA: List of Region 7 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SLIC REG 8 - CA: List of Region 8 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SLIC REG 9 - CA: List of Region 9 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database that is no longer in current agency list.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

SLIC_ALAMEDA COUNTY - CA: Listing of spills leaks investigation & cleanup sites

Agency Version Date: 01/16/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 05/02/2022
Agency: Alameda County Environmental Health Services
Agency Contact: 510-567-6721
Most Recent Contact: 02/03/2022

FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 01/21/2022
Agency Update Frequency: Annually
Planned Next Contact: 04/19/2022
Agency: National Response Center United States Coast Guard
Agency Contact: N/R
Most Recent Contact: 01/21/2022

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 02/22/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/20/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 02/22/2022

FED I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 02/22/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/20/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 02/22/2022

RCRA IC_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 02/04/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/03/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 02/04/2022

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG: List of Resource Conservation and Recovery Act licensed conditionally exempt small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/23/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 02/24/2022

HIST RCRA_LQG: List of Resource Conservation and Recovery Act licensed large quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/23/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 02/24/2022

HIST RCRA_NONGEN: List of Resource Conservation and Recovery Act licensed non-generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/23/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 02/24/2022

FEDERAL RCRA GENERATORS LIST (cont.)

HIST RCRA_SQG: List of Resource Conservation and Recovery Act licensed small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/23/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 02/24/2022

RCRA_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 12/30/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/22/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/28/2022

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 12/30/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/22/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/28/2022

RCRA_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 12/30/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/22/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/28/2022

RCRA_VSQG: Resource Conservation and Recovery Act listing of licensed very small quantity generators.

Agency Version Date: 12/30/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/22/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/28/2022

FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 01/28/2022

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 01/28/2022

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 01/28/2022

FEDERAL NPL SITE LIST (cont.)

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 01/28/2022

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 01/28/2022

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

SEMS_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

SEMS_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

STATE- AND TRIBAL - EQUIVALENT CERCLIS

ENVIROSTOR - CA: Department of Toxic Substances Controls

Agency Version Date: 03/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-327-1077
Most Recent Contact: 03/21/2022

HIST TOXIC PITS - CA: Listing of Toxic Pit Cleanup Act sites that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 07/01/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 04/06/2022

OIL & GAS CLEANUP - CA: List of SWRCB Oil & Gas Cleanup Sites from GeoTracker Site Cleanup Program database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: California Regional Water Quality Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

STATE- AND TRIBAL - EQUIVALENT CERCLIS (cont.)

SWRCB CLEANUP - CA: List of SWRCB Cleanups from Geotracker including CAF, Sampling Points, and Projects.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: California Regional Water Quality Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

SWRCB NON_CASE - CA: List of SWRCB Non-Case sites from GeoTracker Site Cleanup Program database.

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: California Regional Water Quality Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

TOXIC PITS - CA: Listing of Toxic Pit Cleanup Act sites

Agency Version Date: 01/10/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 07/04/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 04/06/2022

STATE- AND TRIBAL - EQUIVALENT NPL

HIST RESPONSE - CA: List of state response sites with confirmed releases and potential high risk that are no longer in current agency list.

Agency Version Date: 10/19/2017
Agency Update Frequency: Annually
Planned Next Contact: 05/12/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-327-1077
Most Recent Contact: 02/15/2022

RESPONSE - CA: State response sites with confirmed releases and potential high risk

Agency Version Date: 03/21/2022
Agency Update Frequency: Annually
Planned Next Contact: 06/16/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-327-1077
Most Recent Contact: 03/21/2022

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST SWF/LF - CA: List of Solid Waste Information System's solid waste facilities and landfills that is no longer in current agency list.

Agency Version Date: 03/05/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/09/2022
Agency: Department of Resources Recycling and Recovery
Agency Contact: 916-341-6066
Most Recent Contact: 02/10/2022

SWF/LF - CA: Solid Waste Information System's facility listing of solid waste facilities and landfills

Agency Version Date: 03/10/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/06/2022
Agency: Department of Resources Recycling and Recovery
Agency Contact: 916-341-6066
Most Recent Contact: 03/10/2022

STATE RCRA GENERATORS LIST

HWG - CA: Hazardous waste generator listing

Agency Version Date: 12/22/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/14/2022
Agency: Department of Toxic Substances Control
Agency Contact: N/R
Most Recent Contact: 03/18/2022

STATE RCRA GENERATORS LIST (cont.)

HWG_YOLO COUNTY - CA: Listing of permitted hazardous waste generators

Agency Version Date: 01/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2022
Agency: Yolo County Environmental Health
Agency Contact: 530-666-8646
Most Recent Contact: 01/21/2022

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/10/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 03/16/2022

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - CA: Voluntary Cleanup Program remediation sites listing

Agency Version Date: 03/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 03/21/2022

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES: EPA Brownfields Assessment, Cleanup and Redevelopment Exchange System.

Agency Version Date: 09/17/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/06/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 03/10/2022

FED BROWNFIELDS: Federal brownfield remediation sites

Agency Version Date: 01/24/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/21/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 01/24/2022

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 01/12/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/11/2022
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 01/12/2022

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 08/05/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 05/16/2022
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 02/16/2022

CALARP_KERN COUNTY - CA: Kern County hazardous material permitted facilities

Agency Version Date: 02/24/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/23/2022
Agency: County of Kern Public Health Services Department
Agency Contact: 661-862-8740
Most Recent Contact: 02/24/2022

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES (cont.)

CASE LIST_SAN DIEGO COUNTY - CA: San Diego county listing of hazardous chemical releases

Agency Version Date: 01/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/22/2022
Agency: County of San Diego Department of Environmental Health
Agency Contact: 619-338-2259
Most Recent Contact: 01/25/2022

CDL - CA: Listing of Meth and clandestine drug labs maintained by the Department of Toxic Substances Control

Agency Version Date: 07/30/2020
Agency Update Frequency: Varies
Planned Next Contact: 07/01/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 04/05/2022

CORRECTIVE ACTION_RIVERSIDE COUNTY - CA: Riverside county corrective action sites list

Agency Version Date: 11/15/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/09/2022
Agency: Riverside County Environmental Health
Agency Contact: 888-722-4234
Most Recent Contact: 03/15/2022

CS_NAPA COUNTY - CA: Napa county listing of Contaminated sites

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: Napa County Department of Environmental Management
Agency Contact: 707-253-4471
Most Recent Contact: 01/28/2022

CS_PLACER COUNTY - CA: Placer county cleanup sites listing

Agency Version Date: 01/25/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/20/2022
Agency: Placer County Environmental Health
Agency Contact: 530-745-2350
Most Recent Contact: 01/25/2022

SCH - CA: Listing of possible hazardous material contamination sites on existing school properties

Agency Version Date: 01/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/22/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 01/25/2022

SITE LIST_CONTRA COSTA COUNTY - CA: Listing of underground tank hazardous waste generator and business plan sites in Contra Costa County

Agency Version Date: 02/04/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/03/2022
Agency: Contra Costa Health Services Department
Agency Contact: 925-335-3200
Most Recent Contact: 02/04/2022

TOXIC SITE_SACRAMENTO COUNTY - CA: Sacramento County listing of historical sites where unauthorized releases of potentially hazardous materials have occurred

Agency Version Date: 08/24/2021
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 05/12/2022
Agency: Sacramento County Environmental Management
Agency Contact: 916-875-8550
Most Recent Contact: 02/15/2022

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 03/18/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/14/2022
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 03/18/2022

RECORDS OF EMERGENCY RELEASE REPORTS (cont.)

CHMIRS - CA: California Hazardous Material Incident Reporting System's reported accidental hazardous material incidents releases or spills

Agency Version Date: 01/11/2022
Agency Update Frequency: Varies
Planned Next Contact: 07/05/2022
Agency: California Emergency Management Agency
Agency Contact: 916-845-8275
Most Recent Contact: 04/08/2022

HIST CHMIRS - CA: California Hazardous Material Incident Reporting System's reported accidental hazardous material incidents releases or spills

Agency Version Date: 04/06/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 05/09/2022
Agency: California Emergency Management Agency
Agency Contact: 916-845-8275
Most Recent Contact: 02/09/2022

INDUSTRIAL CLEANUP_ORANGE COUNTY - CA: Petroleum and non-petroleum industrial spills

Agency Version Date: 02/23/2022
Agency Update Frequency: Annually
Planned Next Contact: 05/23/2022
Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 02/23/2022

SML_LOS ANGELES COUNTY - CA: Listing of all Emergency Response session spills

Agency Version Date: 07/12/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: Los Angeles Department of Public Health
Agency Contact: 323-890-7808
Most Recent Contact: 01/26/2022

LOCAL LAND RECORDS

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/13/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 03/16/2022

DEED - CA: The Department of Toxic Substances Control's listing of property locations with Deed restrictions

Agency Version Date: 01/27/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/25/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-341-5791
Most Recent Contact: 01/27/2022

HIST LIENS - CA: The Department of Toxic Substances Control's listing of property locations with environmental liens that is no longer in current agency list.

Agency Version Date: 12/04/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/06/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 02/08/2022

LIENS - CA: The Department of Toxic Substances Control's listing of property locations with environmental liens

Agency Version Date: 03/09/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/06/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 03/09/2022

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8: List of Region 8 Indian land open dump inventory sites maintained within the STARS program that is no longer in current agency list.

Agency Version Date: 11/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 07/04/2022
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 04/07/2022

INDIAN ODI R8: Region 8 Indian land open dump inventory sites maintained within the STARS program

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 01/28/2022

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017
Agency Update Frequency: No Update
Planned Next Contact: 05/10/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 02/11/2022

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 02/21/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/19/2022
Agency: Indian Health Service
Agency Contact: 301-443-3593
Most Recent Contact: 02/21/2022

HAULERS - CA: Waste Tire Manifest Program Hauler Registration listing

Agency Version Date: 03/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/21/2022
Agency: California Department of Resources Recycling and Recovery (CalRecycle)
Agency Contact: 916-341-6066
Most Recent Contact: 03/25/2022

LF_SAN DIEGO COUNTY - CA: San Diego county landfill listing

Agency Version Date: 01/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/22/2022
Agency: County of San Diego Department of Environmental Health
Agency Contact: 858-694-2801
Most Recent Contact: 01/25/2022

SWF_LOS ANGELES COUNTY - CA: Listing of Los Angeles County solid waste facilities

Agency Version Date: 02/23/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/20/2022
Agency: LA County Department of Public Works
Agency Contact: 800-320-1771
Most Recent Contact: 02/23/2022

SWRCY - CA: Listing of facilities which perform recycled material processing activities

Agency Version Date: 02/15/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/12/2022
Agency: California Department of Resources Recycling and Recovery (CalRecycle)
Agency Contact: 916-341-6066
Most Recent Contact: 02/15/2022

OTHER ASCERTAINABLE RECORDS

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 01/31/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/28/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 01/31/2022

OTHER ASCERTAINABLE RECORDS (cont.)

ALT FUELING: Alternative Fueling Stations by fuel type.

Agency Version Date: 03/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/21/2022
Agency: U.S. Department of Energy
Agency Contact: N/R
Most Recent Contact: 03/25/2022

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 12/30/2021
Agency Update Frequency: Biennial
Planned Next Contact: 06/22/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/28/2022

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: Agency for Toxic Substances and Disease Registry
Agency Contact: 770-488-6399
Most Recent Contact: 01/28/2022

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 09/29/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/16/2022
Agency: Department of Energy
Agency Contact: (202) 586-8800
Most Recent Contact: 03/22/2022

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 02/18/2021
Agency Update Frequency: Varies
Planned Next Contact: 04/29/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 02/01/2022

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 01/07/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 07/01/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 04/04/2022

COLLEGES: List of major Universities & Colleges

Agency Version Date: 02/08/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/15/2022
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/18/2022

COLLEGES 2: List of Universities & Colleges

Agency Version Date: 02/08/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/18/2022
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/19/2022

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 01/28/2022

OTHER ASCERTAINABLE RECORDS (cont.)

CORRECTIVE ACTIONS_2020: In 2009 the EPA created the 2020 Corrective Action Baseline list of contaminated or potentially contaminated sites with a cleanup goal to complete 95% by the year 2020. The names on the list indicate the facility owners who may or may not have caused the contamination.

Agency Version Date: 12/21/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 04/19/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/21/2022

DEBRIS EPA LF: EPA list of designated landfill facilities for the safe disposal of disaster debris.

Agency Version Date: 01/14/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/12/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 01/14/2022

DEBRIS EPA SWRCY: EPA list of facilities for the safe recovery, recycling, and disposal of disaster debris.

Agency Version Date: 01/14/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/12/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 01/14/2022

DOD: Department of Defense sites from the Protected Areas Database (PAD-US)

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 01/28/2022

DOT OPS: Incident Data Report

Agency Version Date: 02/14/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/12/2022
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 02/14/2022

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 12/24/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 03/22/2022

ENOI: The Electronic Notice of Intent (eNOI) database contains construction sites and industrial facilities that submit permit requests to EPA for Construction General Permits (CGP) and Multi-Sector General Permits (MSGP).

Agency Version Date: 03/19/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/02/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/08/2022

EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 02/04/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/03/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 02/04/2022

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 03/17/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/13/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 03/17/2022

OTHER ASCERTAINABLE RECORDS (cont.)

EPA WATCH: The EPA Watch List was used to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/13/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 03/16/2022

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 04/04/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/30/2022
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 04/04/2022

FEDLAND: Federal Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 01/28/2022

FRS: Facility Registry Systems

Agency Version Date: 02/09/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/06/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 02/09/2022

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 04/06/2013
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/28/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 04/01/2022

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/21/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 03/25/2022

FUDS: Defense sites that require cleanup

Agency Version Date: 02/07/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/05/2022
Agency: US Army Corps of Engineering
Agency Contact: (202) 761-0011
Most Recent Contact: 02/07/2022

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 06/14/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 06/10/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/16/2022

HIST AFS 2: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 11/26/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 04/14/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 01/18/2022

OTHER ASCERTAINABLE RECORDS (cont.)

HIST DOD: Department of Defense historical sites

Agency Version Date: 01/28/2022
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 04/26/2022
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 01/28/2022

HIST LEAD_SMELTER: List of former lead smelter sites that is no longer in current agency list.

Agency Version Date: 12/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 06/28/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/01/2022

HIST MLTS: List of sites in possession/use of radioactive materials regulated by NRC that is no longer in current agency list.

Agency Version Date: 07/13/2016
Agency Update Frequency: Annually
Planned Next Contact: 07/07/2022
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 04/11/2022

HIST PCB TRANS: List of PCB Disposal Facilities that are no longer in current agency list.

Agency Version Date: 01/18/2018
Agency Update Frequency: No Update
Planned Next Contact: 05/03/2022
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 02/04/2022

HIST PCS ENF: List of permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/08/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/17/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 02/18/2022

HIST PCS FACILITY: List of Permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/18/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/17/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 02/18/2022

HIST SSTS: List of tracking of facilities who produce pesticides and their quantity that are no longer in current agency list.

Agency Version Date: 02/13/2019
Agency Update Frequency: Annually
Planned Next Contact: 05/06/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 02/08/2022

HOSPITALS: List of major Hospitals

Agency Version Date: 02/08/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/15/2022
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/18/2022

HWC DOCKET: Listing of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste.

Agency Version Date: 11/09/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 05/03/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 02/03/2022

OTHER ASCERTAINABLE RECORDS (cont.)

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 12/28/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/21/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/25/2022

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 12/28/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/21/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 03/25/2022

INDIAN RESERVATION: American Indian Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 01/28/2022

LUCIS: Land Use Control Information Systems

Agency Version Date: 03/18/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2022
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 03/18/2022

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 05/03/2022
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 02/04/2022

MANIFEST EPA: EPA Hazardous Waste Electronic Manifest System (e-Manifest)

Agency Version Date: 02/08/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/06/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 02/08/2022

MINE OPERATIONS: Mine plants and operations for commodities monitored by the National Minerals Information Center of the USGS

Agency Version Date: 02/11/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/10/2022
Agency: USGS Mineral Resources Program
Agency Contact: (703) 648-5953
Most Recent Contact: 02/11/2022

MINES: Mines Master Index Files

Agency Version Date: 03/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/23/2022
Agency: Department of Labor
Agency Contact: (202) 693-9400
Most Recent Contact: 03/28/2022

MINES USGS: Listing of all active mines and mineral plants in 2003

Agency Version Date: 02/11/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/10/2022
Agency: USGS Mineral Resources Program
Agency Contact: (703) 648-5953
Most Recent Contact: 02/11/2022

OTHER ASCERTAINABLE RECORDS (cont.)

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 01/21/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/19/2022
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 01/21/2022

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/28/2022

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

NURSING HOMES: List of Nursing Homes

Agency Version Date: 01/14/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/12/2022
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/14/2022

OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 12/27/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/20/2022
Agency: Occupational Safety & Health Administration
Agency Contact: 800-321-6742
Most Recent Contact: 03/24/2022

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 01/28/2022

PCB TRANSFORMER: Disposal and Storage of Polychlorinated Biphenyl (PCB) Waste

Agency Version Date: 02/11/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/10/2022
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 02/11/2022

PCS ENF: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 03/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/21/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 03/25/2022

PCS FACILITY: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 12/28/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/21/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 03/25/2022

PFAS NPL: List of NPL sites with PFAS or PFOA contamination

Agency Version Date: 04/01/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/28/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 04/01/2022

OTHER ASCERTAINABLE RECORDS (cont.)

PFAS TRIS: List of TRIS sites where PFAS or PFOA are used/manufactured/ treated/ transported/released.

Agency Version Date: 03/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/21/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/25/2022

PFAS UCMR3: List of PWS wells sampled for Unregulated Contaminant Monitoring Rule (UCMR)

Agency Version Date: 03/08/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/02/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 03/08/2022

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 09/23/2019
Agency Update Frequency: Varies
Planned Next Contact: 04/18/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 01/20/2022

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 08/01/2019
Agency Update Frequency: Varies
Planned Next Contact: 06/30/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/06/2022

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 01/04/2022
Agency Update Frequency: Monthly
Planned Next Contact: 06/28/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2534
Most Recent Contact: 04/01/2022

ROD: Permanent remedy at an NPL site

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 01/28/2022

SCHOOLS PRIVATE: List of Private Schools

Agency Version Date: 02/08/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/15/2022
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/18/2022

SCHOOLS PUBLIC: List of Public Schools

Agency Version Date: 02/08/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/15/2022
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/18/2022

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 03/02/2022
Agency Update Frequency: No Update
Planned Next Contact: 05/27/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/02/2022

OTHER ASCERTAINABLE RECORDS (cont.)

SEMS_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/28/2022

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 03/08/2022
Agency Update Frequency: Annually
Planned Next Contact: 06/02/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/08/2022

STORMWATER: Permitted storm water sites

Agency Version Date: 03/18/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/14/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/18/2022

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Agency Version Date: 03/14/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/09/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/14/2022

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Agency Version Date: 03/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/21/2022
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/25/2022

UMTRA: Uranium Recovery Sites

Agency Version Date: 07/08/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/21/2022
Agency: United States Nuclear Regulatory Commission
Agency Contact: (301) 415-8200
Most Recent Contact: 03/25/2022

VAPOR: EPA Vapor Intrusion Database

Agency Version Date: 03/19/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/03/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 03/08/2022

AOC_SAN GABRIEL VALLEY - CA: San Gabriel Valley Superfund sites

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: U.S. Environmental Protection Agency
Agency Contact: 415-972-3181
Most Recent Contact: 01/28/2022

BOND EXPENDITURE PLAN - CA: Hazardous Substance Cleanup Bond Act of 1984 Article 7.5 of Health and Safety Code 25385 listing of orphan sites

Agency Version Date: 03/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2022
Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 03/21/2022

OTHER ASCERTAINABLE RECORDS (cont.)

BP HW OUT_VENTURA COUNTY - CA: Ventura County Business Plan Hazardous Waste Producers and Operating Underground Tanks

Agency Version Date: 02/08/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/06/2022
Agency: Ventura County Environmental Health Division
Agency Contact: 805-654-2815
Most Recent Contact: 02/08/2022

BUSINESS INVENTORY_SAN MATEO COUNTY - CA: San Mateo County listing of underground storage tanks, hazardous materials, business plans, and hazardous waste generators

Agency Version Date: 04/04/2022
Agency Update Frequency: Annually
Planned Next Contact: 06/29/2022
Agency: San Mateo County Environmental Health Services Division
Agency Contact: 650-372-6200
Most Recent Contact: 04/04/2022

CALEPA SITES - CA: CalEPA Regulated Sites from the Certified Unified Program Agencies (CUPA).

Agency Version Date: 12/31/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/24/2022
Agency: California Environmental Protection Agency Unified Program Section
Agency Contact: 916-327-5092
Most Recent Contact: 03/29/2022

CIWQS - CA: California Integrated Water Quality System database facilities listing which includes owner information, violations, inspections, and other regulatory matters

Agency Version Date: 03/18/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/14/2022
Agency: CA State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 03/18/2022

CIWQS 2 - CA: California Integrated Water Quality System database facilities listing which includer owner information violations inspections and other regulatory matters

Agency Version Date: 01/10/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 07/04/2022
Agency: CA State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 04/06/2022

CORTESE - CA: Compliance document used in providing information about the location of hazardous material release sites utilized by the state local agencies and developers

Agency Version Date: 03/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2022
Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 03/21/2022

CUPA_BUTTE COUNTY - CA: Listing of the Butte County Certified Unified Program Agency`s hazardous material program sites

Agency Version Date: 03/19/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 05/23/2022
Agency: Butte County Environmental Health
Agency Contact: 530.538.7281
Most Recent Contact: 02/23/2022

CUPA_FRESNO COUNTY - CA: Listing of the Fresno County Certified Unified Program Agency's hazardous material program sites

Agency Version Date: 03/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/21/2022
Agency: Fresno County Department of Public Health
Agency Contact: 559-600-3271
Most Recent Contact: 03/25/2022

CUPA_PLACER COUNTY - CA: Listing of the Placer County Certified Unified Program Agency's hazardous material program sites

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/20/2022
Agency: Placer County Environmental Health
Agency Contact: 530-745-2350
Most Recent Contact: 01/25/2022

OTHER ASCERTAINABLE RECORDS (cont.)

DAYCARE - CA: List of daycare locations

Agency Version Date: 01/18/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/15/2022
Agency: California Department of Social Services
Agency Contact: 916-651-6040
Most Recent Contact: 01/18/2022

DRYCLEANERS - CA: Listing of drycleaning facilities

Agency Version Date: 09/09/2014
Agency Update Frequency: Quarterly
Planned Next Contact: 06/14/2022
Agency: California EPA Air Resources Board
Agency Contact: 916-324-3013
Most Recent Contact: 03/18/2022

DRYCLEANERS_AMADOR COUNTY - CA: Listing of drycleaning facilities in Amador County

Agency Version Date: 11/02/2016
Agency Update Frequency: Varies
Planned Next Contact: 06/03/2022
Agency: Amador County APCD
Agency Contact: (209) 223-6439
Most Recent Contact: 03/08/2022

DRYCLEANERS_ANTELOPE VALLEY - CA: Listing of drycleaning facilities in Antelope Valley

Agency Version Date: 02/11/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/09/2022
Agency: Antelope Valley AQMD
Agency Contact: 661-723-8070
Most Recent Contact: 02/11/2022

DRYCLEANERS_BAY AREA - CA: Listing of drycleaning facilities in Bay Area

Agency Version Date: 07/01/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/15/2022
Agency: Bay Area AQMD
Agency Contact: 415-749-4784
Most Recent Contact: 03/17/2022

DRYCLEANERS_BUTTE COUNTY - CA: Listing of drycleaning facilities in Butte County

Agency Version Date: 12/11/2019
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/20/2022
Agency: Butte County AQMD
Agency Contact: 530-332-9400 ext. 107
Most Recent Contact: 01/24/2022

DRYCLEANERS_CALAVERAS COUNTY - CA: Listing of drycleaning facilities in Calaveras County

Agency Version Date: 11/19/2015
Agency Update Frequency: Varies
Planned Next Contact: 04/18/2022
Agency: Calaveras County APCD
Agency Contact: 209-754-6504
Most Recent Contact: 01/20/2022

DRYCLEANERS_COLUSA COUNTY - CA: Listing of drycleaning facilities in Colusa County

Agency Version Date: 09/08/2014
Agency Update Frequency: Quarterly
Planned Next Contact: 04/21/2022
Agency: Colusa County APCD
Agency Contact: 530-458-0590
Most Recent Contact: 01/25/2022

DRYCLEANERS_EASTERN KERN COUNTY - CA: Listing of drycleaning facilities in Eastern Kern County

Agency Version Date: 10/29/2021
Agency Update Frequency: Varies
Planned Next Contact: 04/21/2022
Agency: Eastern Kern County APCD
Agency Contact: 661-862-5250
Most Recent Contact: 01/25/2022

DRYCLEANERS_EL DORADO COUNTY - CA: Listing of drycleaning facilities in El Dorado County

Agency Version Date: 03/18/2016
Agency Update Frequency: Varies
Planned Next Contact: 04/21/2022
Agency: El Dorado County AQMD
Agency Contact: 530-621-7503
Most Recent Contact: 01/25/2022

OTHER ASCERTAINABLE RECORDS (cont.)

DRYCLEANERS_FEATHER RIVER - CA: Listing of drycleaning facilities in Feather River

Agency Version Date: 09/24/2021
Agency Update Frequency: Varies
Planned Next Contact: 06/14/2022
Agency: Feather River AQMD
Agency Contact: 530-634-7659 ext. 205
Most Recent Contact: 03/16/2022

DRYCLEANERS_GLENN COUNTY - CA: Listing of drycleaning facilities in Glenn County

Agency Version Date: 10/29/2018
Agency Update Frequency: Varies
Planned Next Contact: 05/09/2022
Agency: Glenn County APCD
Agency Contact: 530-934-6500
Most Recent Contact: 02/11/2022

DRYCLEANERS_GREAT BASIN UNIFIED - CA: Listing of drycleaning facilities in the Great Basin Unified region

Agency Version Date: 09/09/2014
Agency Update Frequency: Varies
Planned Next Contact: 06/27/2022
Agency: Great Basin Unified APCD
Agency Contact: 760-872-8211 ext. 228
Most Recent Contact: 04/01/2022

DRYCLEANERS_IMPERIAL COUNTY - CA: Listing of drycleaning facilities in Imperial County

Agency Version Date: 10/29/2021
Agency Update Frequency: Annually
Planned Next Contact: 04/21/2022
Agency: Imperial County APCD
Agency Contact: 760-482-4606
Most Recent Contact: 01/25/2022

DRYCLEANERS_LAKE COUNTY - CA: Listing of drycleaning facilities in Lake County

Agency Version Date: 03/29/2016
Agency Update Frequency: Varies
Planned Next Contact: 04/18/2022
Agency: Lake County AQMD
Agency Contact: 707-263-7000
Most Recent Contact: 01/20/2022

DRYCLEANERS_LASSEN COUNTY - CA: Listing of drycleaning facilities in Lassen County

Agency Version Date: 05/16/2013
Agency Update Frequency: Varies
Planned Next Contact: 05/06/2022
Agency: Lassen County APCD
Agency Contact: 530-257-1045
Most Recent Contact: 02/08/2022

DRYCLEANERS_MENDOCINO COUNTY - CA: Listing of drycleaning facilities in Mendocino County

Agency Version Date: 08/24/2016
Agency Update Frequency: Varies
Planned Next Contact: 04/13/2022
Agency: Mendocino County AQMD
Agency Contact: 707-463-4354
Most Recent Contact: 01/17/2022

DRYCLEANERS_MOJAVE DESERT - CA: Listing of drycleaning facilities in the Mojave Desert region

Agency Version Date: 02/11/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/09/2022
Agency: Mojave Desert AQMD
Agency Contact: 661-723-8070
Most Recent Contact: 02/11/2022

DRYCLEANERS_MONTEREY BAY - CA: Listing of drycleaning facilities in the Monterey Bay region

Agency Version Date: 03/08/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/06/2022
Agency: Monterey Bay Unified APCD
Agency Contact: 831-647-9418 ext.240
Most Recent Contact: 03/08/2022

DRYCLEANERS_NORTH COAST UNIFIED - CA: Listing of drycleaning facilities in the North Coast region

Agency Version Date: 03/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/23/2022
Agency: North Coast Unified AQMD
Agency Contact: 707-443-3093 ext. 111
Most Recent Contact: 03/25/2022

OTHER ASCERTAINABLE RECORDS (cont.)

DRYCLEANERS_NORTHERN SIERRA - CA: Listing of drycleaning facilities in the Northern Sierra region

Agency Version Date: 09/08/2014
Agency Update Frequency: No Update
Planned Next Contact: 05/30/2022
Agency: Northern Sierra AQMD
Agency Contact: 530-274-9360 ext. 106
Most Recent Contact: 03/03/2022

DRYCLEANERS_NORTHERN SONOMA COUNTY - CA: Listing of drycleaning facilities in Northern Sonoma County

Agency Version Date: 06/01/2018
Agency Update Frequency: Varies
Planned Next Contact: 05/09/2022
Agency: Northern Sonoma County APCD
Agency Contact: 707-433-5911
Most Recent Contact: 02/11/2022

DRYCLEANERS_PLACER COUNTY - CA: Listing of drycleaning facilities in Placer County

Agency Version Date: 05/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 05/18/2022
Agency: Placer County APCD
Agency Contact: 530-745-2324
Most Recent Contact: 02/21/2022

DRYCLEANERS_SACRAMENTO COUNTY - CA: Listing of drycleaning facilities in Sacramento County

Agency Version Date: 03/08/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/06/2022
Agency: Sacramento Metro AQMD
Agency Contact: 916-874-4817
Most Recent Contact: 03/08/2022

DRYCLEANERS_SAN DIEGO COUNTY - CA: Listing of drycleaning facilities in San Diego County

Agency Version Date: 05/20/2019
Agency Update Frequency: Varies
Planned Next Contact: 05/09/2022
Agency: San Diego County APCD
Agency Contact: 858-586-2618
Most Recent Contact: 02/11/2022

DRYCLEANERS_SAN JOAQUIN VALLEY - CA: Listing of drycleaning facilities in the San Joaquin Valley

Agency Version Date: 02/04/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/29/2022
Agency: San Joaquin Valley APCD
Agency Contact: 559-230-5936
Most Recent Contact: 02/03/2022

DRYCLEANERS_SAN LUIS OBISPO - CA: Listing of drycleaning facilities in the San Luis Obispo region

Agency Version Date: 02/15/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/13/2022
Agency: San Luis Obispo County APCD
Agency Contact: 805-781-5912
Most Recent Contact: 02/15/2022

DRYCLEANERS_SANTA BARBARA COUNTY - CA: Listing of drycleaning facilities in Santa Barbara County

Agency Version Date: 08/20/2021
Agency Update Frequency: Varies
Planned Next Contact: 05/09/2022
Agency: Santa Barbara County APCD
Agency Contact: 805-961-8867
Most Recent Contact: 02/09/2022

DRYCLEANERS_SHASTA COUNTY - CA: Listing of drycleaning facilities in Shasta County

Agency Version Date: 02/12/2021
Agency Update Frequency: Varies
Planned Next Contact: 04/21/2022
Agency: Shasta County AQMD
Agency Contact: 530-225-5674
Most Recent Contact: 01/25/2022

DRYCLEANERS_SISKIYOU COUNTY - CA: Listing of drycleaning facilities in Siskiyou County

Agency Version Date: 09/08/2014
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2022
Agency: Siskiyou County APCD
Agency Contact: N/R
Most Recent Contact: 01/13/2022

OTHER ASCERTAINABLE RECORDS (cont.)

DRYCLEANERS_SOUTH COAST - CA: Listing of drycleaning facilities in the South Coast region

Agency Version Date: 02/18/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/16/2022
Agency: South Coast AQMD
Agency Contact: 909-396-2000
Most Recent Contact: 02/18/2022

DRYCLEANERS_TEHAMA COUNTY - CA: Listing of drycleaning facilities in Tehama County

Agency Version Date: 02/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/23/2022
Agency: Tehama County APCD
Agency Contact: 530-527-3717 ext.100
Most Recent Contact: 02/25/2022

DRYCLEANERS_TUOLUMNE COUNTY - CA: Listing of drycleaning facilities in Tuolumne County

Agency Version Date: 09/21/2020
Agency Update Frequency: Varies
Planned Next Contact: 05/30/2022
Agency: Tuolumne County APCD
Agency Contact: 209-533-6678
Most Recent Contact: 03/03/2022

DRYCLEANERS_VENTURA COUNTY - CA: Listing of drycleaning facilities in Ventura County

Agency Version Date: 01/25/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/21/2022
Agency: Ventura County APCD
Agency Contact: 805-645-1405
Most Recent Contact: 01/25/2022

DRYCLEANERS_YOLO-SOLANO COUNTIES - CA: Listing of drycleaning facilities in Yolo and Solano Counties

Agency Version Date: 02/15/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/13/2022
Agency: Yolo-Solano AQMD
Agency Contact: 530-757-3664
Most Recent Contact: 02/15/2022

EMI - CA: An estimation of air pollution for a listing of air permitted facilities

Agency Version Date: 03/08/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/02/2022
Agency: California Air Resources Board
Agency Contact: 916-327-6251
Most Recent Contact: 03/08/2022

FA - CA: Listing of the Department of Toxic Substance Control's Financial Assurance report sites and facilities

Agency Version Date: 10/26/2021
Agency Update Frequency: Varies
Planned Next Contact: 04/19/2022
Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 01/21/2022

FA 2 - CA: Financial Assurance Information for solid waste facilities

Agency Version Date: 01/13/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2022
Agency: Department of Environment & Natural Resources
Agency Contact: 916-341-6066
Most Recent Contact: 01/13/2022

FIRE AREAS - CA: The multi-agency statewide database of fire perimeters.

Agency Version Date: 01/06/2022
Agency Update Frequency: No Update
Planned Next Contact: 06/29/2022
Agency: California Department of Forestry and Fire Protection
Agency Contact: 916-445-4302
Most Recent Contact: 04/04/2022

GCC_SANTA CLARA VALLEY - CA: Santa Clara Valley groundwater contamination cleanups listing

Agency Version Date: 02/23/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/23/2022
Agency: CA State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 02/23/2022

OTHER ASCERTAINABLE RECORDS (cont.)

HAZMAT INCIDENT_CONTRA COSTA COUNTY - CA: Listing of hazardous material incident sites since 1993 in Contra Costa County

Agency Version Date: 08/13/2021
Agency Update Frequency: Varies
Planned Next Contact: 05/02/2022
Agency: Contra Costa Health Services Department
Agency Contact: 925-335-3200
Most Recent Contact: 02/04/2022

HAZMAT_CITY OF SAN JOSE - CA: City of San Jose hazardous material facilities listing

Agency Version Date: 01/05/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/15/2022
Agency: Santa Clara County Department of Environmental Health
Agency Contact: 408-918-1951
Most Recent Contact: 03/17/2022

HAZMAT_SACRAMENTO COUNTY - CA: Sacramento county hazardous material facilities listing

Agency Version Date: 08/20/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 05/09/2022
Agency: Sacramento County Environmental Management
Agency Contact: 916-875-8550
Most Recent Contact: 02/09/2022

HAZMAT_SAN BERNARDINO COUNTY - CA: San Bernardino county listing of hazardous material permitted facilities

Agency Version Date: 02/04/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/29/2022
Agency: San Bernardino County Fire Department Hazardous Materials Division
Agency Contact: 909-386-8419
Most Recent Contact: 02/03/2022

HAZMAT_SAN DIEGO COUNTY - CA: San Diego county listing of hazardous material permitted facilities

Agency Version Date: 02/03/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/03/2022
Agency: Hazardous Materials Management Division
Agency Contact: 858-505-6700
Most Recent Contact: 02/03/2022

HAZMAT_SANTA CLARA COUNTY - CA: Santa Clara county hazardous material facilities listing

Agency Version Date: 02/15/2022
Agency Update Frequency: Annually
Planned Next Contact: 05/13/2022
Agency: Santa Clara Department of Environmental Health
Agency Contact: 408-918-3428
Most Recent Contact: 02/15/2022

HAZNET - CA: Listing of hazardous waste manifests from when hazardous waste is transported from generators to permitted recycling treatment storage or disposal facilities by registered hazardous waste transporters

Agency Version Date: 04/05/2021
Agency Update Frequency: Annually
Planned Next Contact: 06/14/2022
Agency: California Environmental Protection Agency
Agency Contact: 916-341-5791
Most Recent Contact: 03/18/2022

HAZWASTE_ORANGE COUNTY - CA: Orange County hazardous waste facilities

Agency Version Date: 02/08/2022
Agency Update Frequency: Annually
Planned Next Contact: 05/06/2022
Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 02/08/2022

HIGH FIRE - CA: Fire hazard severity zones mapped as areas of significant fire hazards on the basis of fuels terrain weather and other factors

Agency Version Date: 03/22/2021
Agency Update Frequency: No update
Planned Next Contact: 06/01/2022
Agency: California Department of Forestry and Fire Protection
Agency Contact: 916-445-4302
Most Recent Contact: 03/07/2022

OTHER ASCERTAINABLE RECORDS (cont.)

HIST CORTESE - CA: The historical compliance document used in providing information about the location of hazardous material release sites utilized by the state local agencies and developers

Agency Version Date: 02/03/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/02/2022
Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 02/03/2022

HIST HAZNET - CA: List of hazardous waste manifests from when hazardous waste is transported from generators to permitted recycling treatment storage or disposal facilities by registered hazardous waste transporters that are no longer in current agency list.

Agency Version Date: 10/10/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/17/2022
Agency: California Environmental Protection Agency
Agency Contact: 916-341-5791
Most Recent Contact: 02/18/2022

HIST HMS_LOS ANGELES COUNTY - CA: List of Los Angeles county industrial waste and underground storage tank sites that are no longer in current agency list.

Agency Version Date: 09/15/2018
Agency Update Frequency: Annually
Planned Next Contact: 06/13/2022
Agency: County of Los Angeles Department of Public Works
Agency Contact: 626-458-3518
Most Recent Contact: 03/16/2022

HIST HWP - CA: List of the Department of Toxic Substance Control's hazardous waste transporters and corrective action that are no longer in current agency list.

Agency Version Date: 01/18/2019
Agency Update Frequency: Annually
Planned Next Contact: 04/21/2022
Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 01/25/2022

HIST LDS - CA: List of areas of land on or in which hazardous waste is placed or the largest area in which there is significant likelihood of mixing hazardous waste constituents in the same area that are no longer in current agency list.

Agency Version Date: 05/20/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/23/2022
Agency: State Water Qualilty Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 02/24/2022

HIST MCS - CA: List of the State Water Resources Control Boards investigation and remediation of water quality issues at military facilities that is no longer in current agency list.

Agency Version Date: 09/24/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/10/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 03/16/2022

HIST NFA - CA: Historical No further action cleanup sites listing

Agency Version Date: 02/21/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 05/09/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 02/10/2022

HMS_LOS ANGELES COUNTY - CA: Listing of Los Angeles county industrial waste and underground storage tank sites

Agency Version Date: 03/15/2022
Agency Update Frequency: Monthly
Planned Next Contact: 06/13/2022
Agency: County of Los Angeles Department of Public Works
Agency Contact: 626-458-3518
Most Recent Contact: 03/15/2022

OTHER ASCERTAINABLE RECORDS (cont.)

HWM COMMERCIAL FACILITIES - CA: Listing of all commercial hazardous waste permitted off-site transfer recycling treatment storage and disposal facilities

Agency Version Date: 01/20/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/18/2022
Agency: Department of Toxic Substance Control
Agency Contact: 916-322-5308
Most Recent Contact: 01/20/2022

HWP - CA: Facility listing of the Department of Toxic Substance Control's hazardous waste transporters and corrective action

Agency Version Date: 01/28/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/26/2022
Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 01/28/2022

HWT - CA: Listing of registered hazardous waste transporters

Agency Version Date: 02/01/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/29/2022
Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 02/01/2022

LDS - CA: List of Land Disposal Cleanup Sites from Geotracker

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

LOP_SANTA CLARA COUNTY - CA: Santa Clara county leaking underground storage tank sites

Agency Version Date: 07/21/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 04/18/2022
Agency: Department of Environmental Health
Agency Contact: 408-280-6479
Most Recent Contact: 01/20/2022

MCS - CA: List of Military Cleanup Sites from Geotracker

Agency Version Date: 01/25/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/22/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/25/2022

MWMP - CA: Listing of treatment and transfer stations that properly handle and dispose of medical waste that are permitted and inspected by the Medical Waste Management Program

Agency Version Date: 01/28/2022
Agency Update Frequency: Varies
Planned Next Contact: 04/26/2022
Agency: California-Health Human Services Department of Public Health
Agency Contact: 916-449-5661
Most Recent Contact: 01/28/2022

MWMP 2 - CA: Listing of facilities that generate permitted medical waste and are inspected by the Medical Waste Management Program

Agency Version Date: 01/13/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/11/2022
Agency: California-Health Human Services Department of Public Health
Agency Contact: 916-449-5661
Most Recent Contact: 01/13/2022

NFA - CA: No further action cleanup sites listing

Agency Version Date: 03/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 03/21/2022

OTHER ASCERTAINABLE RECORDS (cont.)

NFE - CA: Unconfirmed contaminated properties listing

Agency Version Date: 12/22/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/14/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 03/18/2022

NPDES - CA: Listing of facilities with wastewater and NPDES permits including stormwater

Agency Version Date: 02/24/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/23/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 02/24/2022

PERCHLORATE 2 - CA: Listing of contaminated sites where the primary known chemical is perchlorate

Agency Version Date: 03/18/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/14/2022
Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 03/18/2022

PFAS - CA: List of PFAS sites and areas of interest

Agency Version Date: 01/07/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/30/2022
Agency: California State Water Resources Control Board
Agency Contact: N/R
Most Recent Contact: 04/05/2022

PFAS DOD - CA: List of DoD facilities conducting PFAS investigations

Agency Version Date: 04/05/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/30/2022
Agency: California State Water Resources Control Board
Agency Contact: N/R
Most Recent Contact: 04/05/2022

PFAS GAMA - CA: PFOS & PFAS GAMA Well Sampling program

Agency Version Date: 03/31/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 06/27/2022
Agency: California State Water Resources Control Board
Agency Contact: N/R
Most Recent Contact: 03/31/2022

PROPOSITION 65 - CA: Listing of Proposition 65 enforcement reporting notice sites in accordance with "The Safe Drinking Water and Toxic Enforcement Act of 1986"

Agency Version Date: 06/11/2021
Agency Update Frequency: No update
Planned Next Contact: 05/27/2022
Agency: State of California Department of JusticeOffice of the Attorney General
Agency Contact: 510-873-6321
Most Recent Contact: 03/01/2022

RFR - CA: State Water Resources Control Board Regulated Facility Report database listing which includes program agency type and their permit status

Agency Version Date: 03/03/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/30/2022
Agency: CA State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 03/03/2022

SITES INVENTORY_VENTURA COUNTY - CA: Listing of Ventura County inventory of closed illegal abandoned and inactive sites

Agency Version Date: 05/14/2021
Agency Update Frequency: Annually
Planned Next Contact: 04/29/2022
Agency: Environmental Health Division
Agency Contact: 805-654-2815
Most Recent Contact: 02/01/2022

OTHER ASCERTAINABLE RECORDS (cont.)

SMU_SANTA BARBARA COUNTY - CA: Site Mitigation Unit site assessment and corrective actions at properties in Santa Barbara County

Agency Version Date: 03/29/2022
Agency Update Frequency: Varies
Planned Next Contact: 06/24/2022
Agency: Santa Barbara County APCD
Agency Contact: (805) 681-4900
Most Recent Contact: 03/29/2022

SWAT - CA: The SWAT Reports Summary Data and the Waste Management Unit Database were published by State Water Resources Control Board staff and the Regional Water Quality Control Boards for tracking and inventory of waste management units.

Agency Version Date: 08/08/2015
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 05/16/2022
Agency: Department of Ecology
Agency Contact: 916-322-2861
Most Recent Contact: 02/17/2022

VCCP_VENTURA COUNTY - CA: Listing of Ventura County cleanup program sites

Agency Version Date: 01/31/2022
Agency Update Frequency: Annually
Planned Next Contact: 04/27/2022
Agency: Environmental Health Division
Agency Contact: 805-654-2815
Most Recent Contact: 01/31/2022

WDS - CA: Listing of waste discharge system reporting facilities

Agency Version Date: 01/18/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/15/2022
Agency: State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 01/18/2022

WILDLANDS - CA: The Wildlands Conservancy listing of preserves in California

Agency Version Date: 02/14/2022
Agency Update Frequency: Varies
Planned Next Contact: 05/12/2022
Agency: The Wildlands Conservancy
Agency Contact: 909-797-8507
Most Recent Contact: 02/14/2022

WIP - CA: Listing of Well Investigation Program cases in the San Gabriel and San Fernando Valley area

Agency Version Date: 07/01/2009
Agency Update Frequency: Varies
Planned Next Contact: 05/06/2022
Agency: Los Angeles Water Quality Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 02/08/2022

OTHER

SEISMIC - CA: Earthquake Zones of Required Investigation. Shows the location of both Seismic Hazard Zones and Earthquake Fault Zones

Agency Version Date: 04/30/2021
Agency Update Frequency: Varies
Planned Next Contact: 04/15/2022
Agency: State of California Department of Conservation
Agency Contact: 916-324-7299
Most Recent Contact: 01/18/2022

SUBJECT PROPERTY ADDRESS:

Route 33
Route 33
Kerman, CA 93630

SUBJECT PROPERTY COORDINATES:

Latitude(North):	36.689912 - 36°41'23.7"
Longitude(West):	-120.391569 - -120°23'29.6"
Universal Transverse Mercator:	Zone 10N
UTM X (Meters):	733050.25
UTM Y (Meters):	4063645.08

ELEVATION:

Elevation:	192 ft. above sea level

USGS TOPOGRAPHIC MAP:

Subject Property Map:	36120-E4 Levis, CA
Most Recent Revision:	2015
Subject Property Map:	36120-F4 Coit Ranch, CA
Most Recent Revision:	2015
Subject Property Map:	36120-G3 Mendota Dam, CA
Most Recent Revision:	2015

GEOHYDROLOGY DATA:

SUBJECT PROPERTY TOPOGRAPHY:

Topographic Gradient: North

DFIRM FLOOD ZONE:

	DFIRM Flood
Subject Property County:	Electronic Data:
FRESNO	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	06019C1463H (Eff. date 2/18/2009) 06019C2500H (Eff. date 2/18/2009) 06019C1995H (Eff. date 2/18/2009) 06039C1300E (Eff. date 9/26/2008)
Additional Panels in search area:	06019C1444H (Eff. date 2/18/2009) 06019C2525H (Eff. date 2/18/2009) 06039C1270E (Eff. date 9/26/2008) 06019C1445H (Eff. date 2/18/2009) 06019C1465H (Eff. date 2/18/2009) 06019C2025H (Eff. date 2/18/2009)

FEMA FLOOD ZONE:

	FEMA Flood
Subject Property County:	Electronic Data:
FRESNO	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	0650290820B 0650291125B
Additional Panels in search area:	0600510001B

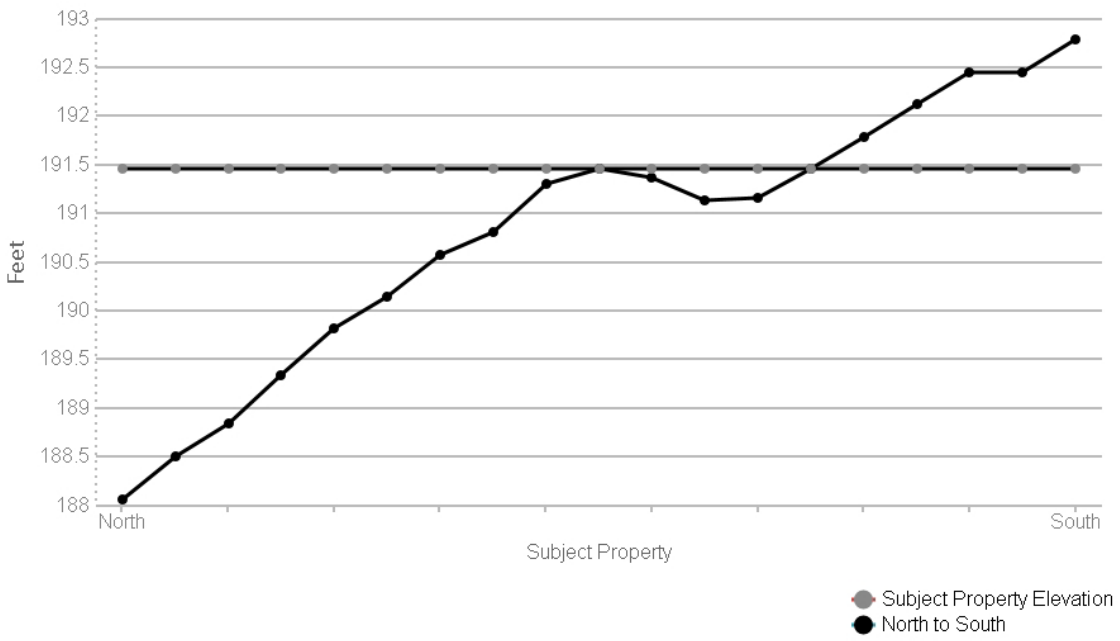
NATIONAL WETLAND INVENTORY:

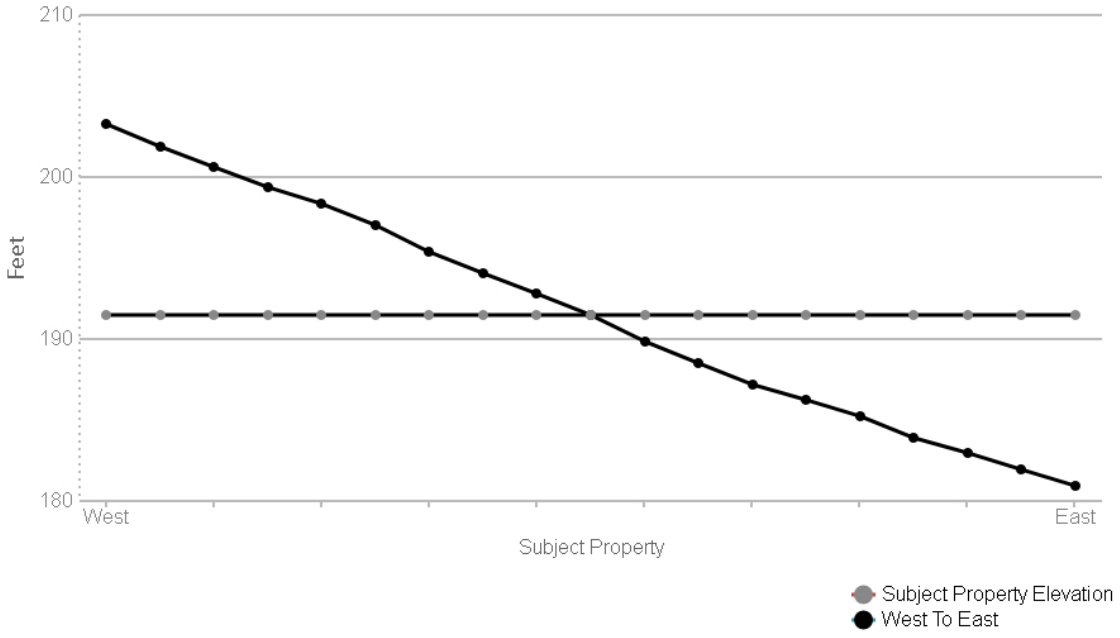
	NWI Electronic
NWI Quad at Subject Property:	Data Coverage:
Levis	Yes - refer to the Geological Findings Map

LITHOSTRATIGRAPHIC INFORMATION:

ROCK STRATIGRAPHIC UNIT:		GEOLOGIC AGE IDENTIFICATION
Era:	Cenozoic	Category: 4 Q Quaternary
System:	Quaternary	
Series:	Quaternary	
Code:	Q	

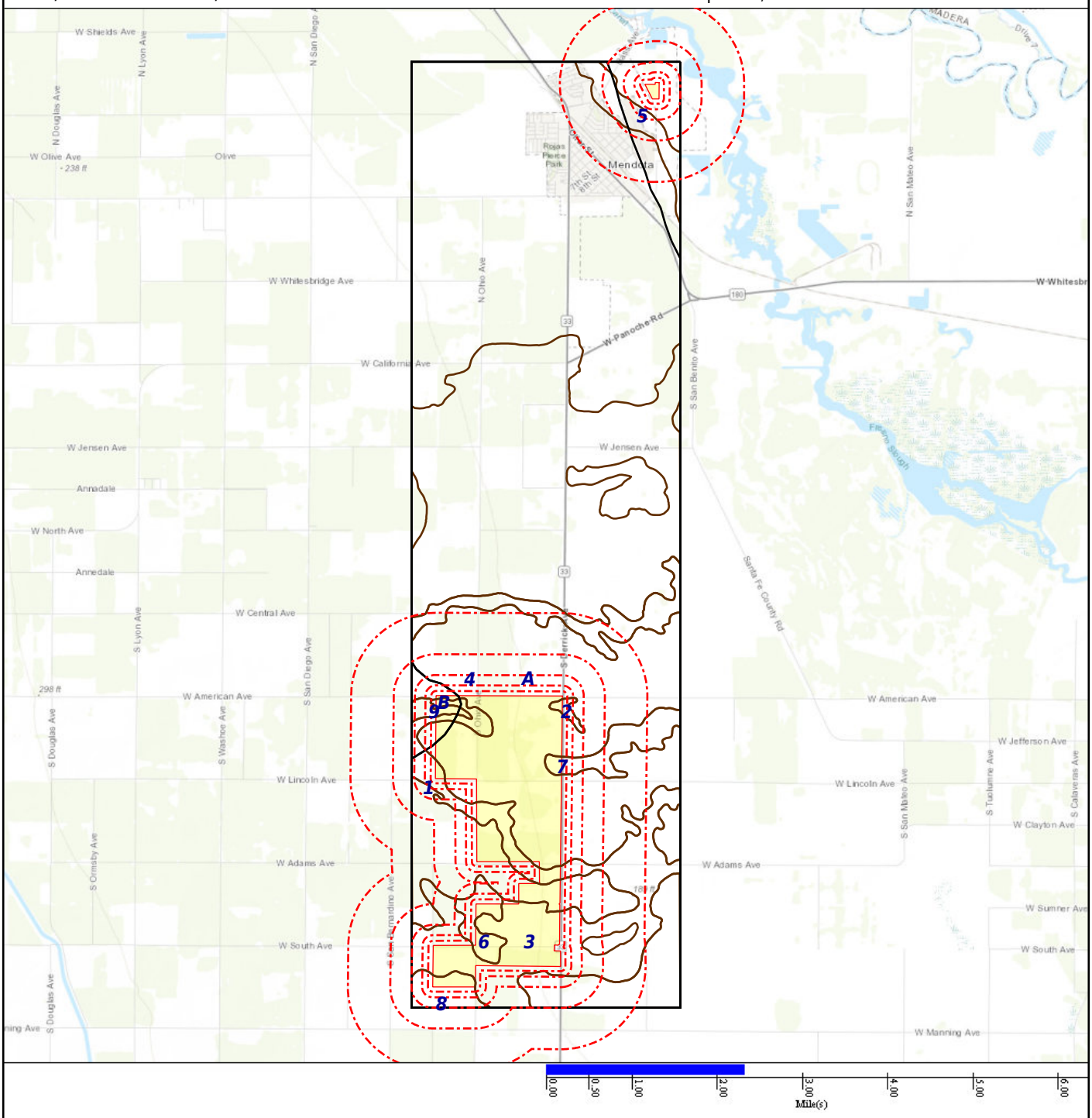
SURROUNDING ELEVATION PROFILES:





SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: April 11, 2022



SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

Agency source: Soil Conservation Service, US Department of Agriculture

SOIL MAP ID 1	SSURGO
USDA Soil Name	Ciervo,Series
USDA Soil Texture	Clay
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-43	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-8.4
2	43-69	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-9
3	69-104	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	0.02-0.42	7.9-9

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	69-104	Silty clay	Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.02-0.42	7.9-9
4	104-152	Clay loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-9

SOIL MAP ID 2 **SSURGO**

USDA Soil Name	Calflax,Series
USDA Soil Texture	Clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	1.4-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.4-8.4
2	20-66	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.4-8.4
3	66-84	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-8.4
4	84-119	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	1.4-4	7.9-9

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	84-119	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-9
5	119-165	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-9

SOIL MAP ID 3 **SSURGO**

USDA Soil Name	Calflax,Series
USDA Soil Texture	Clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.4-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.4-8.4
2	20-66	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.4-8.4
3	66-84	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-8.4
4	84-119	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	1.4-4	7.9-9

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	84-119	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	1.4-4	7.9-9
5	119-165	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-9

SOIL MAP ID 4 **SSURGO**

USDA Soil Name	Tranquillity,Series
USDA Soil Texture	Clay
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction	0.42-1.4	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Clay	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-8.4
2	15-40	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-8.4
3	40-78	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.02-0.42	7.9-8.4
4	78-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.02-0.42	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	122-165	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.02-0.42	7.9-8.4

SOIL MAP ID 5 **SSURGO**

USDA Soil Name	Tranquillity,Series
USDA Soil Texture	Clay
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-8.4
2	15-40	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction	0.42-1.4	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-40	Clay	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-8.4
3	40-78	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.02-0.42	7.9-8.4
4	78-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.02-0.42	7.9-8.4
5	122-165	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.02-0.42	7.9-8.4

SOIL MAP ID 6 **SSURGO**

USDA Soil Name	Posochanet,Series
USDA Soil Texture	Clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-8.4
2	18-38	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-8.4
3	38-61	Loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.4	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	38-61	Loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.4	7.9-8.4
4	61-152	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-8.4

SOIL MAP ID 7 **SSURGO**

USDA Soil Name	Calflax,Series
USDA Soil Texture	Clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	1.4-4	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.4-8.4
2	20-66	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.4-8.4
3	66-84	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-8.4
4	84-119	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-9

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	119-165	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.9-9

SOIL MAP ID 8 **SSURGO**

USDA Soil Name	Ciervo,Series
USDA Soil Texture	Clay
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-43	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-8.4
2	43-69	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction	0.42-1.4	7.9-9

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	43-69	Clay	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-9
3	69-104	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.02-0.42	7.9-9
4	104-152	Clay loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.9-9

SOIL MAP ID 9	SSURGO
USDA Soil Name	Cerini,Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.6-8.4
2	13-64	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-8.4
3	64-89	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.4-8.4
4	89-200	Sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	89-200	Sandy loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-8.4

SOIL MAP ID A **STATSGO**

USDA Soil Name	Ciervo,Series
USDA Soil Texture	Clay
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Clay	No data	No data	0.4234-1.4114	7.4-9
2	16-65	No data	No data	No data	0-0.4234	7.9-9
3	65-72	No data	No data	No data	0.4234-1.4114	7.8-9.6

SOIL MAP ID B **STATSGO**

USDA Soil Name	Ciervo,Series
USDA Soil Texture	Clay
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Clay	No data	No data	0.4234-1.4114	7.4-8.4
2	16-65	No data	No data	No data	0.4234-1.4114	7.4-8.4
3	65-72	No data	No data	No data	1.4114-4.2343	7.4-8.4

WATER AGENCY DATA:

WATER AGENCY SEARCH DISTANCES:

DATABASE:	SEARCH DISTANCE (MILES):
NWIS	1.000
OIL & GAS WELLS - CA	1.000
PWS	1.000
WELLS - GAMA - CA	0.000

DISTANCE TO NEAREST:	DISTANCE:
NWIS	0.000 mi / 0 ft
OIL & GAS WELLS - CA	0.026 mi / 139 ft
PWS	N/A
WELLS - GAMA - CA	0.000 mi / 0 ft

FEDERAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
A1	USGS-363939120231401 | 363939120231401	< 1/8 Mile S
B3	363940120241901	< 1/8 Mile SSW
B4	363937120241701	< 1/8 Mile SSW
5	363942120244901	< 1/8 Mile SW
7	363915120234501	< 1/8 Mile S
8	USGS-363915120242002 | 363915120242001 | 363915120242002	< 1/8 Mile SSW
C10	USGS-363904120234601 | 363904120234601	< 1/8 Mile S
11	USGS-363915120245101 | 363915120245101	< 1/8 Mile SSW
12	USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604	< 1/8 Mile SSW
13	USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510	< 1/8 Mile SSW
14	USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607	< 1/8 Mile SSW
D15	USGS-363849120231701 | 363849120231701	< 1/8 Mile S
E16	USGS-363851120241802 | 363851120241801 | 363851120241802	< 1/8 Mile SSW
E17	USGS-363848120241701 | 363848120241701	< 1/8 Mile SSW
19	363834120241801	< 1/8 Mile SSW
20	USGS-363822120234901 | 363822120234901	< 1/8 Mile S
F21	USGS-363816120241801 | 363816120241801	< 1/8 Mile SSW
G23	USGS-363757120231701 | 363757120231701	< 1/8 Mile S
H24	363700120245201	< 1/8 Mile SSW
B25	363943120241701	< 1/8 Mile SSW
H26	363702120245301	< 1/8 Mile SSW
H28	363704120245301	< 1/8 Mile SSW
D29	363850120231301	< 1/8 Mile S
A30	363941120231201	< 1/8 Mile S
31	USGS-363722120242101 | 363722120242101 | 363722120242102	< 1/8 Mile SSW
32	363706120231401 | 363706120231402	< 1/8 Mile S

FEDERAL WATER AGENCY DATA SUMMARY: *(cont.)*

MAP ID:	WELL ID:	LOCATION FROM SP:
A34	USGS-363943120231201 | 363943120231201	< 1/8 Mile S
I37	363732120231301	< 1/8 Mile S
H38	363707120245101	< 1/8 Mile SSW
39	USGS-363848120245201 | 363848120245201	< 1/8 Mile SSW
40	363758120242201	< 1/8 Mile SSW
I42	363736120231101	< 1/8 Mile S
G43	USGS-363759120230801 | 363759120230801	< 1/8 Mile S
45	363731120243401	1/8 - 1/4 Mile SSW
46	USGS-363704120250801 | 363704120250801	1/8 - 1/4 Mile SSW
47	363956120241701	1/4 - 1/2 Mile SSW
J48	USGS-364613120223501 | USGS-364613120223502 | 364613120223501	1/4 - 1/2 Mile N
J49	364618120223301	1/4 - 1/2 Mile N
50	363630120231401	1/4 - 1/2 Mile S
51	USGS-363758120224501 | 363758120224501	1/4 - 1/2 Mile SSE
52	363614120241801	1/4 - 1/2 Mile S
K53	363702120252401 | 363702120252402	1/4 - 1/2 Mile SSW
K54	363704120252401	1/4 - 1/2 Mile SSW
55	363847120224201	1/4 - 1/2 Mile SSE
L56	363943120252201 | 363943120252202	1/4 - 1/2 Mile SW
M57	363849120252301	1/2 - 1 Mile SW
N58	364629120223001	1/2 - 1 Mile N
M59	363845120252301	1/2 - 1 Mile SW
M60	USGS-363847120252401 | 363847120252401	1/2 - 1 Mile SW
O61	364634120221901	1/2 - 1 Mile NNE
62	USGS-363929120252401 | 363929120252401	1/2 - 1 Mile SW
M63	363847120252501	1/2 - 1 Mile SW
O64	DM-02 | USGS-364632120223403 | 364632120223403	1/2 - 1 Mile NNE
M65	363847120252601 | 363847120252602 | 363847120252603	1/2 - 1 Mile SW
L66	USGS-363940120252601 | 363940120252601	1/2 - 1 Mile SW
M67	USGS-363847120252606 | 363847120252606	1/2 - 1 Mile SW
68	364634120214001	1/2 - 1 Mile NNE
M69	USGS-363847120252801 | 363847120252801	1/2 - 1 Mile SW
O70	USGS-364636120222401 | 364636120222401	1/2 - 1 Mile N
N71	364632120223401 | 364632120223402 | 364632120223404	1/2 - 1 Mile N
M72	USGS-363847120252901 | USGS-363847120253307 | 363847120252901	1/2 - 1 Mile SW
73	364539120223501	1/2 - 1 Mile NNE
74	364640120220701	1/2 - 1 Mile NNE
P75	USGS-363832120252301 | 363832120252301	1/2 - 1 Mile SW
N76	364631120223901 | 364631120223902	1/2 - 1 Mile N
P77	363829120252301	1/2 - 1 Mile SW
78	364629120224401 | 364629120224402	1/2 - 1 Mile N
N79	364636120223601	1/2 - 1 Mile N
81	363615120252601	1/2 - 1 Mile SSW
82	363902120242532	1/2 - 1 Mile S
Q83	USGS-364522120222001 | 364522120222001	1/2 - 1 Mile NNE

FEDERAL WATER AGENCY DATA SUMMARY: *(cont.)*

MAP ID:	WELL ID:	LOCATION FROM SP:
Q84	USGS-364521120222001 | 364521120222001	1/2 - 1 Mile NNE
85	364626120225401 | 364626120225402	1/2 - 1 Mile N
R86	364647120221901	1/2 - 1 Mile NNE
Q87	USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007	1/2 - 1 Mile NNE
Q88	USGS-364519120222001 | 364519120222001	1/2 - 1 Mile NNE
Q89	USGS-364518120222001 | 364518120222001	1/2 - 1 Mile NNE
Q90	364518120222401	1/2 - 1 Mile NNE
R91	364650120221601	1/2 - 1 Mile NNE
R92	364651120220901	1/2 - 1 Mile NNE
R93	364649120222401	1/2 - 1 Mile N
S94	364523120223901 | 364523120223902	1/2 - 1 Mile NNE
R96	DM-U-10 | DM-U-11 | DM-U-12	1/2 - 1 Mile NNE
97	364622120230301 | 364622120230302	1/2 - 1 Mile N
100	364512120220701	1/2 - 1 Mile NNE
101	USGS-364614120231001 | 364614120231001 | 364614120231002	1/2 - 1 Mile N
102	363944120255001	1/2 - 1 Mile SW
103	363757120221301	1/2 - 1 Mile SSE
104	364032120231401	1/2 - 1 Mile SSE
105	363940120221001	1/2 - 1 Mile SE
106	364508120221601	1/2 - 1 Mile NNE
107	USGS-363757120252301 | 363757120252301	1/2 - 1 Mile SSW
108	363851120255501	1/2 - 1 Mile SW

Note: PWS System location is not always the same as well location.

STATE/LOCAL WATER AGENCY DATA SUMMARY:

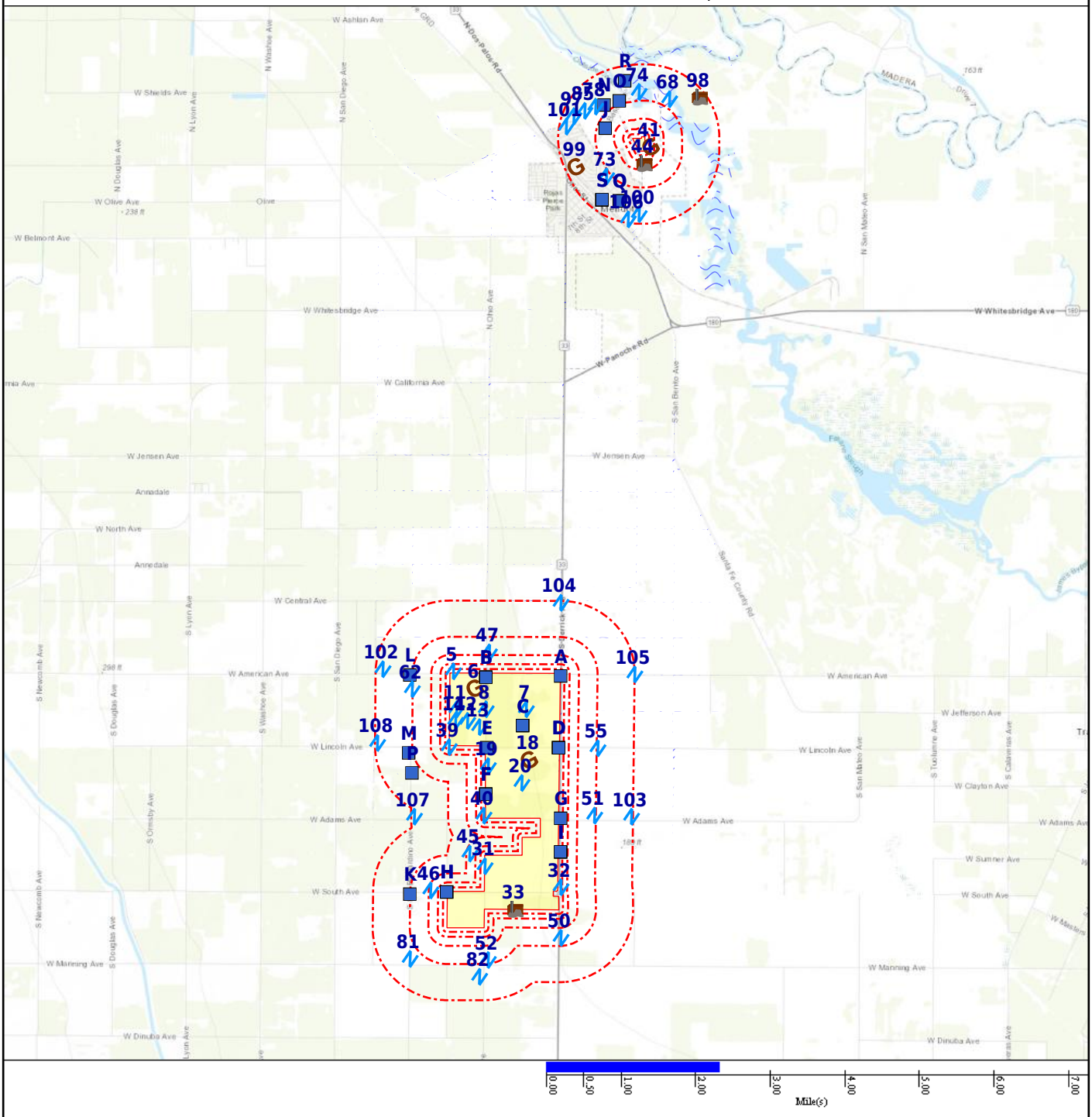
MAP ID:	WELL ID:	LOCATION FROM SP:
A1	USGS-363939120231401 | 363939120231401	< 1/8 Mile S
B2	USGS-363940120241901	< 1/8 Mile SSW
6	15S14E01D001M	< 1/8 Mile SSW
8	USGS-363915120242002 | 363915120242001 | 363915120242002	< 1/8 Mile SSW
C9	15S14E01K001M	< 1/8 Mile S
C10	USGS-363904120234601 | 363904120234601	< 1/8 Mile S
11	USGS-363915120245101 | 363915120245101	< 1/8 Mile SSW
12	USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604	< 1/8 Mile SSW
13	USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510	< 1/8 Mile SSW
14	USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607	< 1/8 Mile SSW
D15	USGS-363849120231701 | 363849120231701	< 1/8 Mile S
E16	USGS-363851120241802 | 363851120241801 | 363851120241802	< 1/8 Mile SSW
E17	USGS-363848120241701 | 363848120241701	< 1/8 Mile SSW
18	15S14E12A001M	< 1/8 Mile S

STATE/LOCAL WATER AGENCY DATA SUMMARY: *(cont.)*

MAP ID:	WELL ID:	LOCATION FROM SP:
20	USGS-363822120234901 | 363822120234901	< 1/8 Mile S
F21	USGS-363816120241801 | 363816120241801	< 1/8 Mile SSW
F22	15S14E12M001M	< 1/8 Mile SSW
G23	USGS-363757120231701 | 363757120231701	< 1/8 Mile S
D27	15S15E06N001M	< 1/8 Mile S
31	USGS-363722120242101 | 363722120242101 | 363722120242102	< 1/8 Mile SSW
33	0401906075	< 1/8 Mile S
A34	USGS-363943120231201 | 363943120231201	< 1/8 Mile S
H35	15S14E23B001M	< 1/8 Mile SSW
I36	15S15E18E001M	< 1/8 Mile S
39	USGS-363848120245201 | 363848120245201	< 1/8 Mile SSW
41	1010021-001	< 1/8 Mile NNE
G43	USGS-363759120230801 | 363759120230801	< 1/8 Mile S
44	0401906007	1/8 - 1/4 Mile NNE
46	USGS-363704120250801 | 363704120250801	1/8 - 1/4 Mile SSW
J48	USGS-364613120223501 | USGS-364613120223502 | 364613120223501	1/4 - 1/2 Mile N
51	USGS-363758120224501 | 363758120224501	1/4 - 1/2 Mile SSE
M60	USGS-363847120252401 | 363847120252401	1/2 - 1 Mile SW
62	USGS-363929120252401 | 363929120252401	1/2 - 1 Mile SW
O64	DM-02 | USGS-364632120223403 | 364632120223403	1/2 - 1 Mile NNE
L66	USGS-363940120252601 | 363940120252601	1/2 - 1 Mile SW
M67	USGS-363847120252606 | 363847120252606	1/2 - 1 Mile SW
M69	USGS-363847120252801 | 363847120252801	1/2 - 1 Mile SW
O70	USGS-364636120222401 | 364636120222401	1/2 - 1 Mile N
M72	USGS-363847120252901 | USGS-363847120253307 | 363847120252901	1/2 - 1 Mile SW
P75	USGS-363832120252301 | 363832120252301	1/2 - 1 Mile SW
Q83	USGS-364522120222001 | 364522120222001	1/2 - 1 Mile NNE
Q84	USGS-364521120222001 | 364521120222001	1/2 - 1 Mile NNE
Q87	USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007	1/2 - 1 Mile NNE
Q88	USGS-364519120222001 | 364519120222001	1/2 - 1 Mile NNE
Q89	USGS-364518120222001 | 364518120222001	1/2 - 1 Mile NNE
R96	DM-U-10 | DM-U-11 | DM-U-12	1/2 - 1 Mile NNE
98	0401921173	1/2 - 1 Mile NNE
101	USGS-364614120231001 | 364614120231001 | 364614120231002	1/2 - 1 Mile N
107	USGS-363757120252301 | 363757120252301	1/2 - 1 Mile SSW

SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: April 11, 2022



Map Id: A1
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363939120231401 | 363939120231401
36.660784, -120.388221
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9222822
EPA ID: N/R

NWIS

Site Identification Number :	363939120231401
Site Type :	Well
Station Name :	015S015E06D003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	191
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-04-01
Water-Quality Data End Date :	1986-04-01
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1986-04-01
Field Water-level Measurements End Date:	1986-04-01
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.660784
Longitude :	-120.388221
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363939120231401

Map Id: A1
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363939120231401 | 363939120231401
36.660784, -120.388221
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222822
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363939120231401
Other Names :	N/R
Latitude :	36.6607837
Longitude :	-120.3882206
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-04-01
Chemical :	SC (Specific Conductivity) = 10800 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	AS (Arsenic) = 3 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	F (Fluoride) = .1 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	CR (Chromium) = 5 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	TEMP (Temperature) = 22 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	MG (Magnesium) = 180 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: A1
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363939120231401 | 363939120231401
36.660784, -120.388221
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222822
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-04-01
Chemical :	HG (Mercury) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1986-04-01
Chemical :	PH (pH) = 7.5 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-01
Chemical :	PH (pH) = 7.9 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-01
Chemical :	CL (Chloride) = 1300 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6607837
Longitude :	-120.3882206

Source Chemicals

Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	Specific conductance 10800
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	Arsenic 3
Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	Fluoride 0.10
Analytical Method :	USGS TWRI 5-A1/1989, p 221
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: A1
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363939120231401 | 363939120231401
36.660784, -120.388221
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222822
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	Chromium 5
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	Temperature, water 22.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	Magnesium 180
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	Mercury Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	0.1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	pH 7.5
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	pH 7.9
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 14:30:00
Chemical :	Chloride 1300
Analytical Method :	USGS TWRI 5-A1/1989, p 155
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: B2
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363940120241901
36.661062, -120.406277
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 10025423
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363940120241901
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	20.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363940120241901
Other Names :	N/R
Latitude :	36.6610615
Longitude :	-120.4062768
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-04-01
Chemical :	K (Potassium) = 1.5 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	TOCH (Total Organic Carbon) = 2.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	AL (Aluminum) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	MN (Manganese) = 880 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	TDS (Total Dissolved Solids) = 4150 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	FE (Iron) = 40 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: B2
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363940120241901
36.661062, -120.406277
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 10025423
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-04-01
Chemical :	LI (Lithium) = 190 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-01
Chemical :	AG (Silver) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1986-04-01
Chemical :	NA (Sodium) = 530 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-01
Chemical :	SC (Specific Conductivity) = 4350 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	20
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6610615
Longitude :	-120.4062768

Source Chemicals

Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Potassium 1.50
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Organic carbon 2.8
Analytical Method :	USGS OF 92-480
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Aluminum 20
Analytical Method :	USGS TWRI 5-A1/1989, p 61
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: B2
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363940120241901
36.661062, -120.406277
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 10025423
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Manganese 880
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Total dissolved solids 4150
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Iron 40
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Lithium 190
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Silver Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 423
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Sodium 530
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 11:00:00
Chemical :	Specific conductance 4350
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: B3
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : 363940120241901
36.661061, -120.406277
CA

Database(s) : [NWIS]

Envirosite ID: 9216833
EPA ID: N/R

NWIS

Site Identification Number :	363940120241901
Site Type :	Well
Station Name :	015S014E01D002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	206.0
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-04-01
Water-Quality Data End Date :	1986-04-01
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1986-04-01
Field Water-level Measurements End Date:	1986-04-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.661061
Longitude :	-120.406277
Last Date in Agency List :	2022-03-04

Map Id: B4
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : 363937120241701
36.660228, -120.405721
CA

Database(s) : [NWIS]

Envirosite ID: 9206280
EPA ID: N/R

NWIS

Site Identification Number :	363937120241701
Site Type :	Well
Station Name :	015S014E01D001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWNWNWS01 T15S R14E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	205.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	1950-07-22
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1272
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.660228
Longitude :	-120.405721
Last Date in Agency List :	2022-03-04

Map Id: 5
Direction: SW
Distance: 0.000 mi., 0 ft.
Elevation: 217 ft.
Relative: Higher

Site Name : 363942120244901
36.661617, -120.41461
CA

Database(s) : [NWIS]

Envirosite ID: 31363060
EPA ID: N/R

NWIS

Site Identification Number :	363942120244901
Site Type :	Well
Station Name :	015S014E02B001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	214.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1960-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1220
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1968-12-01
Field Water-level Measurements End Date:	1968-12-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.661617
Longitude :	-120.41461
Last Date in Agency List :	2022-03-04

Map Id: 6
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 15S14E01D001M
36.6582, -120.409
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 36475091
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Well ID :	15S14E01D001M
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	Department of Water Resources
Data Source :	WDL
Source Name :	15S14E01D001M
Other Names :	N/R
Latitude :	36.6582
Longitude :	-120.409
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 50 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-14
Chemical :	B (Boron) = 1.5 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-14
Chemical :	SO4 (Sulfate) = 300 MG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1951-08-14
Chemical :	PH (pH) = 7.5 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-14
Chemical :	ALKCACO3 (Alkalinity as CaCO3) = 251 MG/L
CAS Number :	N/R
Reporting Limit :	1

Source Details

Datum :	N/R
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6582
Longitude :	-120.409

Map Id: 6
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 15S14E01D001M
36.6582, -120.409
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36475091
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Chemicals

Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Chloride = 50 mg/L
Analytical Method :	UnkH Chloride
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Boron = 1.5 mg/L
Analytical Method :	UnkH Boron
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Sulfate = 300 mg/L
Analytical Method :	UnkH Sulfate
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	pH = 7.5 pH Units
Analytical Method :	UnkH pH
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Total Alkalinity = 251 mg/L as CaCO3
Analytical Method :	UnkH Alkalinity
Reporting Limit :	1
Lab Note :	N/R

Map Id: 7
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : 363915120234501
36.654117, -120.396832
CA

Database(s) : [NWIS]

Envirosite ID: 9224947
EPA ID: N/R

NWIS

Site Identification Number :	363915120234501
Site Type :	Well
Station Name :	015S014E01K002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA

Map Id: 7
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : 363915120234501
36.654117, -120.396832
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9224947
EPA ID: N/R

NWIS ***(cont.)***

Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	197.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1958-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	904
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1959-05-01
Field Water-level Measurements End Date:	1959-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.654117
Longitude :	-120.396832
Last Date in Agency List :	2022-03-04

Map Id: 8
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363915120242002 | 363915120242001 | 363915120242002
36.654117, -120.406554
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9216727
EPA ID: N/R

NWIS

Site Identification Number :	363915120242001
Site Type :	Groundwater drain
Station Name :	DRAIN 015S014E02-1 M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	205
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNI
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	470645676
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-05-29
Water-Quality Data End Date :	1988-10-03
Water-Quality Data Count :	27
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.654117
Longitude :	-120.406554
Last Date in Agency List :	2022-03-04

Site Identification Number :	363915120242002
Site Type :	Well
Station Name :	015S014E02 MF-MA50

Map Id: 8
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363915120242002 | 363915120242001 | 363915120242002
36.654117, -120.406554
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9216727
EPA ID: N/R

NWIS ***(cont.)***

Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	211
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	51
Hole Depth :	52
Source of Depth Data :	D
Project Number :	470642800
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-06-30
Water-Quality Data End Date :	1987-06-30
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.654117
Longitude :	-120.406554
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363915120242002
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	51.0
Top of Screen (Ft.) :	N/R

Map Id: 8
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363915120242002 | 363915120242001 | 363915120242002
36.654117, -120.406554
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9216727
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363915120242002
Other Names :	N/R
Latitude :	36.6541171
Longitude :	-120.4065543
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1987-06-30
Chemical :	NA (Sodium) = 1300 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-30
Chemical :	CA (Calcium) = 530 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-30
Chemical :	NO2 (Nitrite as N) = .2 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-30
Chemical :	NI (Nickel) = 1 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-30
Chemical :	NO3N (Nitrate as N) = 45.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-30
Chemical :	MG (Magnesium) = 350 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-30
Chemical :	PH (pH) = 7.6 PH UNITS
CAS Number :	N/R

Map Id: 8
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363915120242002 | 363915120242001 | 363915120242002
36.654117, -120.406554
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9216727
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit : N/R

Samp Collection Date : 1987-06-30
Chemical : CR (Chromium) = 51 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-06-30
Chemical : HCO3 (bicarbonate HCO3) = 122 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-06-30
Chemical : B (Boron) = 27 MG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 51
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6541171
Longitude : -120.4065543

Source Chemicals
Samp Collection Date-Time : 1987-06-30 11:00:00
Chemical : Sodium 1300
Analytical Method : USGS TWRI 5-A1/1989, p 425
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-30 11:00:00
Chemical : Calcium 530
Analytical Method : USGS TWRI 5-A1/1989, p 137
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-30 11:00:00
Chemical : Nitrite 0.200
Analytical Method : USGS OF 93-125, p 143
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-30 11:00:00
Chemical : Nickel 1

Map Id: 8
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363915120242002 | 363915120242001 | 363915120242002
36.654117, -120.406554
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9216727
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-30 11:00:00
Chemical :	Nitrate 45.8
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-30 11:00:00
Chemical :	Magnesium 350
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-30 11:00:00
Chemical :	pH 7.6
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-30 11:00:00
Chemical :	Chromium 51
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-30 11:00:00
Chemical :	Bicarbonate 122
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-30 11:00:00
Chemical :	Boron 27000
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: C9
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : 15S14E01K001M
36.6513, -120.397
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 36474109
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Well ID :	15S14E01K001M
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	Department of Water Resources
Data Source :	WDL
Source Name :	15S14E01K001M
Other Names :	N/R
Latitude :	36.6513
Longitude :	-120.397
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1965-11-04
Chemical :	CL (Chloride) = 375 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1965-11-04
Chemical :	ALKCACO3 (Alkalinity as CaCO3) = 215 MG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1965-11-04
Chemical :	PH (pH) = 8.5 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1951-08-23
Chemical :	K (Potassium) = 5.8 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1951-08-23
Chemical :	PH (pH) = 7.9 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1951-08-23
Chemical :	MG (Magnesium) = 9.5 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Map Id: C9
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : 15S14E01K001M
36.6513, -120.397
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474109
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1951-08-23
Chemical :	CL (Chloride) = 52 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1951-08-23
Chemical :	SO4 (Sulfate) = 249 MG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1951-08-23
Chemical :	B (Boron) = 1.4 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1951-08-23
Chemical :	NO3N (Nitrate as N) = .05 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Source Details

Datum :	N/R
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6513
Longitude :	-120.397

Source Chemicals

Samp Collection Date-Time :	1965-11-04
Chemical :	Dissolved Chloride = 375 mg/L
Analytical Method :	Std Method 4500-Cl, B
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1965-11-04
Chemical :	Total Alkalinity = 215 mg/L as CaCO3
Analytical Method :	EPA 310.1
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1965-11-04
Chemical :	pH = 8.5 pH Units
Analytical Method :	EPA 150.1
Reporting Limit :	.1
Lab Note :	N/R

Map Id: C9
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : 15S14E01K001M
36.6513, -120.397
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474109
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1951-08-23
Chemical :	Dissolved Potassium = 5.8 mg/L
Analytical Method :	UnkH Potassium
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	pH = 7.9 pH Units
Analytical Method :	UnkH pH
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Dissolved Magnesium = 9.5 mg/L
Analytical Method :	UnkH Magnesium
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Dissolved Chloride = 52 mg/L
Analytical Method :	UnkH Chloride
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Dissolved Sulfate = 249 mg/L
Analytical Method :	UnkH Sulfate
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Dissolved Boron = 1.4 mg/L
Analytical Method :	UnkH Boron
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Dissolved Nitrate = .2 mg/L
Analytical Method :	UnkH Nitrate
Reporting Limit :	.1
Lab Note :	N/R

Map Id: C10
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : USGS-363904120234601 | 363904120234601
36.651061, -120.397109
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9217952
EPA ID: N/R

NWIS

Site Identification Number :	363904120234601
Site Type :	Well
Station Name :	015S014E01K001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWNWSES01 T15S R14E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	197.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1951-01-01
Date Site Established or Inventoried:	1951-03-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	Alluvium Above and Below E-Clay (Miocene-Pleistocene)
Local Aquifer Type :	N/R
Well Depth :	912
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1951-08-23
Water-Quality Data End Date :	1951-08-23
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1951-03-01
Field Water-level Measurements End Date:	1951-03-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651061
Longitude :	-120.397109
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363904120234601

Map Id: C10
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : USGS-363904120234601 | 363904120234601
36.651061, -120.397109
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217952
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	912.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363904120234601
Other Names :	N/R
Latitude :	36.6510615
Longitude :	-120.3971094
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1951-08-23
Chemical :	B (Boron) = 1.4 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1951-08-23
Chemical :	CL (Chloride) = 52 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1951-08-23
Chemical :	CA (Calcium) = 36 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1951-08-23
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1951-08-23
Chemical :	NA (Sodium) = 190 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1951-08-23
Chemical :	TDS (Total Dissolved Solids) = 777 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: C10
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : USGS-363904120234601 | 363904120234601
36.651061, -120.397109
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217952
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1951-08-23
Chemical :	PH (pH) = 7.9 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-23
Chemical :	MG (Magnesium) = 9.5 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-23
Chemical :	TEMP (Temperature) = 25 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-23
Chemical :	HCO3 (bicarbonate HCO3) = 300 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	912
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6510615
Longitude :	-120.3971094

Source Chemicals

Samp Collection Date-Time :	1951-08-23
Chemical :	Boron 1400
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-23
Chemical :	Chloride 52.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-23
Chemical :	Calcium 36.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: C10
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 200 ft.
Relative: Higher

Site Name : USGS-363904120234601 | 363904120234601
36.651061, -120.397109
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217952
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1951-08-23
Chemical :	Total dissolved solids 1.06
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Sodium 190
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Total dissolved solids 777
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	pH 7.9
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Magnesium 9.50
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Temperature, water 25.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-23
Chemical :	Bicarbonate 300
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 11
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363915120245101 | 363915120245101
36.654117, -120.413499
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9206226
EPA ID: N/R

NWIS

Site Identification Number :	363915120245101
Site Type :	Well
Station Name :	FARM DRAIN 136.0-4.9N
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NNNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1984-08-07
Water-Quality Data End Date :	1984-08-07
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.654117
Longitude :	-120.413499
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363915120245101

Map Id: 11
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363915120245101 | 363915120245101
36.654117, -120.413499
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206226
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363915120245101
Other Names :	N/R
Latitude :	36.6541171
Longitude :	-120.413499
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1984-08-07
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-07
Chemical :	SO4 (Sulfate) = 3900 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-07
Chemical :	NH3NH4N (Ammonia) = .116 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-07
Chemical :	SC (Specific Conductivity) = 8540 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-07
Chemical :	ZN (Zinc) = .02 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-07
Chemical :	F (Fluoride) = .4 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 11
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363915120245101 | 363915120245101
36.654117, -120.413499
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206226
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1984-08-07
Chemical :	BE (Beryllium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10
Samp Collection Date :	1984-08-07
Chemical :	V (Vanadium) = 23 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-07
Chemical :	MG (Magnesium) = 200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-07
Chemical :	BR (Bromide) = 2.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6541171
Longitude :	-120.413499

Source Chemicals

Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Total dissolved solids 9.98
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Sulfate 3900
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Ammonia and ammonium 0.116
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 11
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363915120245101 | 363915120245101
36.654117, -120.413499
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206226
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Specific conductance 8540
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Zinc 20
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Fluoride 0.40
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Beryllium Not Detected ug/l
Analytical Method :	N/R
Reporting Limit :	10
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Vanadium 23.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Magnesium 200
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 16:55:00
Chemical :	Bromide 2.8
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9197141
EPA ID: N/R

NWIS

Site Identification Number :	363906120243603
Site Type :	Well
Station Name :	015S014E02K013M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-02-04
Water-Quality Data End Date :	1986-02-04
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.410999
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120243606
Site Type :	Well

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

NWIS ***(cont.)***

Station Name :	015S014E02 MF-EW6
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-06-16
Date Site Established or Inventoried:	1986-06-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	15
Hole Depth :	15
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-07-17
Water-Quality Data End Date :	1986-07-30
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.410999
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120243602
Site Type :	Well
Station Name :	015S014E02K014M
Agency :	U.S. Geological Survey

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

NWIS ***(cont.)***

District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-02-04
Water-Quality Data End Date :	1986-02-04
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.410999
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120243607
Site Type :	Well
Station Name :	015S014E02J014M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

NWIS ***(cont.)***

County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-06-16
Date Site Established or Inventoried:	1986-06-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	15
Hole Depth :	15
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.651617
Longitude :	-120.410999
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120243604
Site Type :	Well
Station Name :	015S014E02 MF-EW4
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

NWIS ***(cont.)***

Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-06-16
Date Site Established or Inventoried:	1986-06-19
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	15
Hole Depth :	15
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-07-17
Water-Quality Data End Date :	1986-07-30
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.410999
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120243605
Site Type :	Well
Station Name :	015S014E02 MF-EW5
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

NWIS ***(cont.)***

Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-06-16
Date Site Established or Inventoried:	1986-06-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	15
Hole Depth :	15
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-07-17
Water-Quality Data End Date :	1986-07-30
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.410999
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363906120243606
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	15.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120243606
Other Names :	N/R
Latitude :	36.6516171

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Longitude :	-120.4109989
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-07-30
Chemical :	H-3 (Tritium) = pCi/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-07-30
Chemical :	CL (Chloride) = 97 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-07-30
Chemical :	BA (Barium) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1986-07-30
Chemical :	FE (Iron) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-07-30
Chemical :	LI (Lithium) = 220 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-07-30
Chemical :	PH (pH) = 7.5 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-07-30
Chemical :	NA (Sodium) = 1700 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1986-07-30
Chemical : K (Potassium) = 2.9 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : MN (Manganese) = 120 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : PH (pH) = 7.8 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 15
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6516171
Longitude : -120.4109989

Source Chemicals
Samp Collection Date-Time : 1986-07-30
Chemical : Tritium 13.6
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-07-30
Chemical : Chloride 97.0
Analytical Method : USGS TWRI 5-A1/1989, p 155
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-07-30
Chemical : Barium Not Detected ug/l
Analytical Method : USGS TWRI 5-A1/1989, p 89
Reporting Limit : 100
Lab Note : N/R

Samp Collection Date-Time : 1986-07-30
Chemical : Iron 20
Analytical Method : USGS TWRI 5-A1/1989, p 239
Reporting Limit : N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30
Chemical :	Lithium 220
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30
Chemical :	pH 7.5
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30
Chemical :	Sodium 1700
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30
Chemical :	Potassium 2.90
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30
Chemical :	Manganese 120
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30
Chemical :	pH 7.8
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120243602
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120243602

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Other Names : N/R
Latitude : 36.6516171
Longitude : -120.4109989
Last Date in Agency List : 2022-02-22

GM Chemicals

Samp Collection Date : 1986-02-04
Chemical : SO4 (Sulfate) = 6400 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-04
Chemical : MO (Molybdenum) = 36 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-04
Chemical : MN (Manganese) = 200 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-04
Chemical : K (Potassium) = 2.9 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-04
Chemical : FE (Iron) = 80 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-04
Chemical : TDS (Total Dissolved Solids) = MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-04
Chemical : CR (Chromium) = 10 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-04
Chemical : BA (Barium) = .1 MG/L
CAS Number : N/R
Reporting Limit : N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1986-02-04
Chemical : HCO3 (bicarbonate HCO3) = 356 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-04
Chemical : TDS (Total Dissolved Solids) = 9900 MG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : N/R
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6516171
Longitude : -120.4109989

Source Chemicals
Samp Collection Date-Time : 1986-02-04 13:25:00
Chemical : Sulfate 6400
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 13:25:00
Chemical : Molybdenum 36
Analytical Method : USGS TWRI 5-A1/1989, p 293
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 13:25:00
Chemical : Manganese 200
Analytical Method : USGS TWRI 5-A1/1989, p 275
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 13:25:00
Chemical : Potassium 2.90
Analytical Method : USGS TWRI 5-A1/1989, p 393
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 13:25:00
Chemical : Iron 80
Analytical Method : USGS TWRI 5-A1/1989, p 239

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 13:25:00
Chemical :	Total dissolved solids 13.5
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 13:25:00
Chemical :	Chromium 10
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 13:25:00
Chemical :	Barium 100
Analytical Method :	USGS TWRI 5-A1/1989, p 89
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 13:25:00
Chemical :	Bicarbonate 356
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 13:25:00
Chemical :	Total dissolved solids 9900
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120243604
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	15.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120243604
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4109989
Last Date in Agency List :	2022-02-22

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Samp Collection Date : 1986-07-30
Chemical : AL (Aluminum) = 10 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : MG (Magnesium) = 310 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : SC (Specific Conductivity) = 16100 UMHOS/CM
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : PH (pH) = 7.4 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : HCO3 (bicarbonate HCO3) = 518 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : AS (Arsenic) = 2 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : SC (Specific Conductivity) = 17300 UMHOS/CM
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : K (Potassium) = 8.1 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-30
Chemical : SO4 (Sulfate) = 7300 MG/L
CAS Number : N/R
Reporting Limit : N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-07-30
Chemical :	LI (Lithium) = 410 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	15
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171
Longitude :	-120.4109989

Source Chemicals

Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Aluminum 10
Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Magnesium 310
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Specific conductance 16100
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	pH 7.4
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Bicarbonate 518
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Arsenic 2

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Specific conductance 17300
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Potassium 8.10
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Sulfate 7300
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30 14:30:00
Chemical :	Lithium 410
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120243605
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	15.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120243605
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4109989
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1986-07-30
Chemical :	NA (Sodium) = 3600 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-07-30
Chemical :	MN (Manganese) = 40 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-07-30
Chemical :	V (Vanadium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	40
Samp Collection Date :	1986-07-30
Chemical :	FE (Iron) = 50 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-07-30
Chemical :	K (Potassium) = 3.6 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-07-30
Chemical :	PH (pH) = 7.6 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-07-30
Chemical :	AS (Arsenic) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-07-30
Chemical :	MG (Magnesium) = 440 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-07-30
Chemical :	B (Boron) = 36 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-07-30
Chemical :	CL (Chloride) = 3500 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Details

Datum :	NAD83
Well Depth (Ft.) :	15
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171
Longitude :	-120.4109989

Source Chemicals

Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Sodium 3600
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Manganese 40
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Vanadium Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 211
Reporting Limit :	40
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Iron 50
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Potassium 3.60
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	pH 7.6
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Arsenic 2

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Magnesium 440
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Boron 36000
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-07-30 10:15:00
Chemical :	Chloride 3500
Analytical Method :	USGS TWRI 5-A1/1989, p 155
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120243603
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120243603
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4109989
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1986-02-04
Chemical :	NI (Nickel) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	PH (pH) = 7.2 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-02-04
Chemical :	SC (Specific Conductivity) = 10900 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	CA (Calcium) = 490 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	B (Boron) = 15 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	TEMP (Temperature) = 17 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	AS (Arsenic) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	CR (Chromium) = 11 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	PH (pH) = 7.7 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Longitude : -120.4109989

Source Chemicals

Samp Collection Date-Time : 1986-02-04 14:00:00
Chemical : Nickel 20
Analytical Method : USGS TWRI 5-A1/1989, p 299
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 14:00:00
Chemical : pH 7.2
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 14:00:00
Chemical : Specific conductance 10900
Analytical Method : USGS TWRI 5-A1/1989, p 461
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 14:00:00
Chemical : Calcium 490
Analytical Method : USGS TWRI 5-A1/1989, p 137
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 14:00:00
Chemical : Boron 15000
Analytical Method : USGS OF 93-125, p 47
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 14:00:00
Chemical : Temperature, water 17.0
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1986-02-04 14:00:00
Chemical : Arsenic 2
Analytical Method : USGS TWRI 5-A1/1989, p 77
Reporting Limit : N/R
Lab Note : N/R

Map Id: 12
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : USGS-363906120243602 | USGS-363906120243603 | USGS-363906120243604
36.651617, -120.410999
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197141
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-02-04 14:00:00
Chemical :	Chromium 11
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-04 14:00:00
Chemical :	pH 7.7
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-04 14:00:00
Chemical :	Total dissolved solids 13.0
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9206175
EPA ID: N/R

NWIS

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Site Identification Number :	363902120242551
Site Type :	Well
Station Name :	015S014E02 MF-13.20
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	20
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-03-06
Water-Quality Data End Date :	1987-04-02
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242525
Site Type :	Well
Station Name :	015S014E02 MF-4.20
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	20
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-02-06
Water-Quality Data End Date :	1986-07-29
Water-Quality Data Count :	3
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242554
Site Type :	Well
Station Name :	015S014E02 MF-14.20
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNO

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	20
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-03-06
Water-Quality Data End Date :	1987-04-02
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242572
Site Type :	Unsaturated zone
Station Name :	LYS 014S015E02J SMP 1-5
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	195
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Date Site Established or Inventoried:	1987-12-15
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNYNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	5
Hole Depth :	5
Source of Depth Data :	O
Project Number :	470645676
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-12-15
Water-Quality Data End Date :	1988-02-11
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242514
Site Type :	Well
Station Name :	015S014E02 MF-1.10
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	10
Hole Depth :	10
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-07-30
Water-Quality Data End Date :	1988-08-30
Water-Quality Data Count :	3
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242528
Site Type :	Well
Station Name :	015S014E02 MF-5.20
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	20
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-02-06
Water-Quality Data End Date :	1986-02-06
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242544
Site Type :	Well
Station Name :	015S014E02 MF-11.10
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	10
Hole Depth :	10
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-08-13
Water-Quality Data End Date :	1986-08-13
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242547
Site Type :	Well
Station Name :	015S014E02 MF-12.10
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Well Depth :	10
Hole Depth :	10
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-07-16
Water-Quality Data End Date :	1986-08-13
Water-Quality Data Count :	3
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242508
Site Type :	Well
Station Name :	015S014E02 MF-SE8
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

Site Identification Number :	363902120242548
Site Type :	Well
Station Name :	015S014E02 MF-12.20
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	20
Source of Depth Data :	D
Project Number :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

NWIS ***(cont.)***

Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-07-29
Water-Quality Data End Date :	1986-07-29
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.650506
Longitude :	-120.407943
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Well ID :	USGS-363902120242551
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	20.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242551
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-04-02
Chemical :	TDS (Total Dissolved Solids) = 10100 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-04-02
Chemical :	NA (Sodium) = 2200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1987-04-02
Chemical :	HCO3 (bicarbonate HCO3) = 140 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	NI (Nickel) = 1 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	AL (Aluminum) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10
Samp Collection Date :	1987-04-02
Chemical :	SC (Specific Conductivity) = 1170 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	F (Fluoride) = .1 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	BA (Barium) = .1 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	LI (Lithium) = 240 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	NO2 (Nitrite as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.01

Source Details

Datum :	NAD83
Well Depth (Ft.) :	20
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.650506

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Longitude : -120.4079432

Source Chemicals

Samp Collection Date-Time : 1987-04-02 13:00:00
Chemical : Total dissolved solids 10100
Analytical Method : NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 13:00:00
Chemical : Sodium 2200
Analytical Method : USGS TWRI 5-A1/1989, p 425
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 13:00:00
Chemical : Bicarbonate 140
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 13:00:00
Chemical : Nickel 1
Analytical Method : USGS TWRI 5-A1/1989, p 299
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 13:00:00
Chemical : Aluminum Not Detected ug/l
Analytical Method : USGS TWRI 5-A1/1989, p 61
Reporting Limit : 10
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 13:00:00
Chemical : Specific conductance 1170
Analytical Method : USGS TWRI 5-A1/1989, p 461
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 13:00:00
Chemical : Fluoride 0.10
Analytical Method : USGS TWRI 5-A1/1989, p 221
Reporting Limit : N/R
Lab Note : N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-04-02 13:00:00
Chemical :	Barium 100
Analytical Method :	USGS TWRI 5-A1/1989, p 89
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-02 13:00:00
Chemical :	Lithium 240
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-02 13:00:00
Chemical :	Nitrite Not Detected mg/l as N
Analytical Method :	USGS OF 93-125, p 143
Reporting Limit :	0.010
Lab Note :	N/R

Well Details

Well ID :	USGS-363902120242564
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	28.1
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242564
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-04-01
Chemical :	SC (Specific Conductivity) = 22600 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-04-01
Chemical :	CA (Calcium) = 540 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-04-01
Chemical :	CL (Chloride) = 4700 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1987-04-01
Chemical :	AL (Aluminum) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	TDS (Total Dissolved Solids) = 16900 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	NO3N (Nitrate as N) = 229 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	FE (Iron) = 80 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	BA (Barium) = .1 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	LI (Lithium) = 290 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	28.1
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.650506
Longitude :	-120.4079432

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Chemicals

Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Specific conductance 22600
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Calcium 540
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Chloride 4700
Analytical Method :	USGS TWRI 5-A1/1989, p 155
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Aluminum 20
Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Total dissolved solids 16900
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Nitrate 229
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Iron 80
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Barium 100
Analytical Method :	USGS TWRI 5-A1/1989, p 89
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Total dissolved solids 23.0
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-01 14:15:00
Chemical :	Lithium 290
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363902120242549
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	30.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242549
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1986-07-31
Chemical :	AS (Arsenic) = 13 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-07-31
Chemical :	LI (Lithium) = 270 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-07-31
Chemical :	PH (pH) = 8.6 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-07-31
Chemical :	V (Vanadium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	30

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1986-07-31
Chemical : CR (Chromium) = 60 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-31
Chemical : SC (Specific Conductivity) = 18700 UMHOS/CM
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-31
Chemical : MO (Molybdenum) = 74 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-31
Chemical : SO4 (Sulfate) = 9600 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-31
Chemical : SE (Selenium) = 2400 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-07-31
Chemical : TDS (Total Dissolved Solids) = 16300 MG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 30
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.650506
Longitude : -120.4079432

Source Chemicals
Samp Collection Date-Time : 1986-07-31
Chemical : Arsenic 13
Analytical Method : USGS TWRI 5-A1/1989, p 77
Reporting Limit : N/R
Lab Note : N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-07-31
Chemical :	Lithium 270
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-31
Chemical :	pH 8.6
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-31
Chemical :	Vanadium Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 211
Reporting Limit :	30
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-31
Chemical :	Chromium 60
Analytical Method :	USGS TWRI 5-A1/1989, p 167
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-31
Chemical :	Specific conductance 18700
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-31
Chemical :	Molybdenum 74
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-31
Chemical :	Sulfate 9600
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-07-31
Chemical :	Selenium 2400
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-07-31
Chemical :	Total dissolved solids 16300
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363902120242559
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	51.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242559
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-03-31
Chemical :	TEMP (Temperature) = 23 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-03-31
Chemical :	NO3N (Nitrate as N) = 34 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-03-31
Chemical :	TOCH (Total Organic Carbon) = 1.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-03-31
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-03-31
Chemical :	MN (Manganese) = 40 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1987-03-31
Chemical : NI (Nickel) = 1 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-03-31
Chemical : NA (Sodium) = 990 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-03-31
Chemical : V (Vanadium) ND 0 UG/L
CAS Number : N/R
Reporting Limit : 60

Samp Collection Date : 1987-03-31
Chemical : B (Boron) = 9.5 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-03-31
Chemical : FE (Iron) = 30 UG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 51
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.650506
Longitude : -120.4079432

Source Chemicals
Samp Collection Date-Time : 1987-03-31 14:15:00
Chemical : Temperature, water 23.0
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-03-31 14:15:00
Chemical : Nitrate 34.0
Analytical Method : NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit : N/R
Lab Note : N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-03-31 14:15:00
Chemical :	Organic carbon 1.8
Analytical Method :	USGS OF 92-480
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-03-31 14:15:00
Chemical :	Total dissolved solids 9.04
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-03-31 14:15:00
Chemical :	Manganese 40
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-03-31 14:15:00
Chemical :	Nickel 1
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-03-31 14:15:00
Chemical :	Sodium 990
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-03-31 14:15:00
Chemical :	Vanadium Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 211
Reporting Limit :	60
Lab Note :	N/R

Samp Collection Date-Time :	1987-03-31 14:15:00
Chemical :	Boron 9500
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-03-31 14:15:00
Chemical :	Iron 30
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Details

Well ID :	USGS-363902120242567
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	26.5
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242567
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-04-01
Chemical :	LI (Lithium) = 300 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	SO4 (Sulfate) = 6800 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	MO (Molybdenum) = 160 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	F (Fluoride) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1987-04-01
Chemical :	B (Boron) = 32 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-01
Chemical :	H-3 (Tritium) ND pCi/L

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-04-01
Chemical : CR (Chromium) = 15 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-04-01
Chemical : FE (Iron) = 60 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-04-01
Chemical : TDS (Total Dissolved Solids) = 19000 MG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 26.5
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.650506
Longitude : -120.4079432

Source Chemicals
Samp Collection Date-Time : 1987-04-01 16:25:00
Chemical : Lithium 300
Analytical Method : USGS TWRI 5-A1/1989, p 257
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-01 16:25:00
Chemical : Sulfate 6800
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-01 16:25:00
Chemical : Molybdenum 160
Analytical Method : USGS TWRI 5-A1/1989, p 293
Reporting Limit : N/R
Lab Note : N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-04-01 16:25:00
Chemical :	Total dissolved solids 25.8
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-01 16:25:00
Chemical :	Fluoride Not Detected mg/l
Analytical Method :	USGS TWRI 5-A1/1989, p 221
Reporting Limit :	0.10
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-01 16:25:00
Chemical :	Boron 32000
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-01 16:25:00
Chemical :	Tritium Not Detected T.U.
Analytical Method :	N/R
Reporting Limit :	0.8
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-01 16:25:00
Chemical :	Chromium 15
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-01 16:25:00
Chemical :	Iron 60
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-01 16:25:00
Chemical :	Total dissolved solids 19000
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363902120242510
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242510
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1988-09-01
Chemical :	SO4 (Sulfate) = 6600 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-09-01
Chemical :	V (Vanadium) = 12 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-09-01
Chemical :	METOCHLOR (Metolachlor) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1988-09-01
Chemical :	PHORATE (Phorate) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.01
Samp Collection Date :	1988-09-01
Chemical :	CYANAZ (Cyanazine) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1988-09-01
Chemical :	MG (Magnesium) = 370 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-09-01
Chemical :	DIAZ (Diazinon) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.01

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1988-09-01
Chemical : PH (pH) = 7.3 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-09-01
Chemical : NO3N (Nitrate as N) = 110 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-09-01
Chemical : FE (Iron) = 40 UG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : N/R
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.650506
Longitude : -120.4079432

Source Chemicals
Samp Collection Date-Time : 1988-09-01 11:30:00
Chemical : Sulfate 6600
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1988-09-01 11:30:00
Chemical : Vanadium 12
Analytical Method : USGS OF 93-125, p 211
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1988-09-01 11:30:00
Chemical : Metolachlor Not Detected ug/l
Analytical Method : USGS TWRI 5-A3/1987, p 46
Reporting Limit : 0.1
Lab Note : N/R

Samp Collection Date-Time : 1988-09-01 11:30:00
Chemical : Phorate Not Detected ug/l
Analytical Method : USGS TWRI 5-A3/1987, p 27
Reporting Limit : 0.01

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Lab Note :	N/R
Samp Collection Date-Time :	1988-09-01 11:30:00
Chemical :	Cyanazine Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 46
Reporting Limit :	0.1
Lab Note :	N/R
Samp Collection Date-Time :	1988-09-01 11:30:00
Chemical :	Magnesium 370
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-09-01 11:30:00
Chemical :	Diazinon Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 27
Reporting Limit :	0.01
Lab Note :	N/R
Samp Collection Date-Time :	1988-09-01 11:30:00
Chemical :	pH 7.3
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-09-01 11:30:00
Chemical :	Nitrate 110
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-09-01 11:30:00
Chemical :	Iron 40
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363902120242529
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	30.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242529

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Other Names : N/R
Latitude : 36.650506
Longitude : -120.4079432
Last Date in Agency List : 2022-02-22

GM Chemicals

Samp Collection Date : 1986-02-06
Chemical : PH (pH) = 7.6 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-06
Chemical : TEMP (Temperature) = 15.5 CELSIUS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-06
Chemical : SO4 (Sulfate) = 8700 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-06
Chemical : HCO3 (bicarbonate HCO3) = 146 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-06
Chemical : CL (Chloride) = 4200 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-06
Chemical : MG (Magnesium) = 490 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-06
Chemical : B (Boron) = 27 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-02-06
Chemical : BA (Barium) ND 0 MG/L
CAS Number : N/R
Reporting Limit : .1

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-02-06
Chemical :	TOCH (Total Organic Carbon) = 8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-02-06
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	30
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.650506
Longitude :	-120.4079432

Source Chemicals

Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	pH 7.6
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Temperature, water 15.5
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Sulfate 8700
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Bicarbonate 146
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Chloride 4200
Analytical Method :	USGS TWRI 5-A1/1989, p 155

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Magnesium 490
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Boron 27000
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Barium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 89
Reporting Limit :	100
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Organic carbon 8.0
Analytical Method :	USGS OF 92-480
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-06 14:00:00
Chemical :	Total dissolved solids 25.3
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363902120242524
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	10.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242524
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Samp Collection Date :	1986-08-12
Chemical :	TDS (Total Dissolved Solids) = 13300 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-12
Chemical :	NA (Sodium) = 4000 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-12
Chemical :	PH (pH) = 7.5 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-12
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-12
Chemical :	AL (Aluminum) = 30 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-12
Chemical :	HCO3 (bicarbonate HCO3) = 799 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-12
Chemical :	MO (Molybdenum) = 25 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-12
Chemical :	SO4 (Sulfate) = 6100 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-12
Chemical :	FE (Iron) = 110 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-08-12
Chemical :	SC (Specific Conductivity) = 14000 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	10
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.650506
Longitude :	-120.4079432

Source Chemicals

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Total dissolved solids 13300
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Sodium 4000
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	pH 7.5
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Total dissolved solids 18.1
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Aluminum 30
Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Bicarbonate 799

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Molybdenum 25
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Sulfate 6100
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Iron 110
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-08-12 07:00:00
Chemical :	Specific conductance 14000
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363902120242545
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	20.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242545
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1986-02-26
Chemical :	PH (pH) = 7.8 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-02-26
Chemical :	SO4 (Sulfate) = 6400 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-26
Chemical :	SE (Selenium) = 4600 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-26
Chemical :	B (Boron) = 27 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-26
Chemical :	MG (Magnesium) = 200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-26
Chemical :	NA (Sodium) = 3400 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-26
Chemical :	NI (Nickel) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1986-02-26
Chemical :	CR (Chromium) = 18 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-26
Chemical :	SC (Specific Conductivity) = 18900 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-26
Chemical :	V (Vanadium) = 27 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Details

Datum :	NAD83
Well Depth (Ft.) :	20
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.650506
Longitude :	-120.4079432

Source Chemicals

Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	pH 7.8
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	Sulfate 6400
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	Selenium 4600
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	Boron 27000
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	pH 7.8
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	Magnesium 200
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	Sodium 3400

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	Nickel Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	Chromium 18
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-26 14:45:00
Chemical :	Specific conductance 18900
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363902120242555
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	30.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363902120242555
Other Names :	N/R
Latitude :	36.650506
Longitude :	-120.4079432
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-04-02
Chemical :	F (Fluoride) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1987-04-02
Chemical :	SE (Selenium) = 7300 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1987-04-02
Chemical :	K (Potassium) = 4.9 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	NO3N (Nitrate as N) = 379 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	SC (Specific Conductivity) = 34000 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	CR (Chromium) = 7 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	CA (Calcium) = 550 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	MG (Magnesium) = 880 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	NA (Sodium) = 6700 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-02
Chemical :	PH (pH) = 7.3 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	30
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.650506

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Longitude : -120.4079432

Source Chemicals

Samp Collection Date-Time : 1987-04-02 14:30:00
Chemical : Fluoride Not Detected mg/l
Analytical Method : USGS TWRI 5-A1/1989, p 221
Reporting Limit : 0.10
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 14:30:00
Chemical : Selenium 7300
Analytical Method : USGS TWRI 5-A1/1989, p 403
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 14:30:00
Chemical : Potassium 4.90
Analytical Method : USGS TWRI 5-A1/1989, p 393
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 14:30:00
Chemical : Nitrate 379
Analytical Method : NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 14:30:00
Chemical : Specific conductance 34000
Analytical Method : USGS TWRI 5-A1/1989, p 461
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 14:30:00
Chemical : Chromium 7
Analytical Method : USGS TWRI 5-A1/1989, p 163
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-04-02 14:30:00
Chemical : Calcium 550
Analytical Method : USGS TWRI 5-A1/1989, p 137
Reporting Limit : N/R
Lab Note : N/R

Map Id: 13
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : USGS-363902120242504 | USGS-363902120242507 | USGS-363902120242510
36.650506, -120.407943
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206175
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-04-02 14:30:00
Chemical :	Magnesium 880
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-02 14:30:00
Chemical :	Sodium 6700
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-04-02 14:30:00
Chemical :	pH 7.3
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9197147
EPA ID: N/R

NWIS

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Site Identification Number :	363906120244624
Site Type :	Well
Station Name :	015S014E02 MF-M5.30
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	211
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	31
Hole Depth :	32
Source of Depth Data :	D
Project Number :	470645676
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-06-09
Water-Quality Data End Date :	1988-07-21
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244627
Site Type :	Well
Station Name :	015S014E02 MF-M8.50
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	211
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	51
Hole Depth :	52
Source of Depth Data :	D
Project Number :	470645676
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-10-20
Water-Quality Data End Date :	1987-10-20
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244626
Site Type :	Well
Station Name :	015S014E02 MF-M5.10
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	211
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	11
Hole Depth :	12
Source of Depth Data :	D
Project Number :	470645676
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244601
Site Type :	Well
Station Name :	015S014E02Q001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-02-04
Water-Quality Data End Date :	1986-02-04
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244606
Site Type :	Well
Station Name :	015S014E02K005M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244607
Site Type :	Well
Station Name :	015S014E02K006M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-02-03
Water-Quality Data End Date :	1986-02-03
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244635
Site Type :	Unsaturated zone
Station Name :	LYS 015S014E02Q SMP NW1
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	199
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	1.0
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986
Date Site Established or Inventoried:	1987-12-15
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	5
Hole Depth :	5
Source of Depth Data :	O
Project Number :	470645676
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-12-15
Water-Quality Data End Date :	1987-12-15
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244634
Site Type :	Well
Station Name :	015S014E02 MF-M10.10
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	211
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Well Depth :	11
Hole Depth :	12
Source of Depth Data :	D
Project Number :	470645676
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-10-21
Water-Quality Data End Date :	1987-10-21
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244622
Site Type :	Well
Station Name :	015S014E02 MF-M5.50
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	211
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	51
Hole Depth :	52

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data :	D
Project Number :	470645676
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-06-09
Water-Quality Data End Date :	1988-07-21
Water-Quality Data Count :	3
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363906120244618
Site Type :	Well
Station Name :	015S014E02 MF-M1.10
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	211
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	11
Hole Depth :	12
Source of Depth Data :	D
Project Number :	470645676

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

NWIS ***(cont.)***

Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-06-11
Water-Quality Data End Date :	1988-07-20
Water-Quality Data Count :	3
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.651617
Longitude :	-120.413777
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Well ID :	USGS-363906120244627
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	51.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244627
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-10-20
Chemical :	SC (Specific Conductivity) = 8900 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1987-10-20
Chemical :	SO4 (Sulfate) = 6200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-20
Chemical :	TEMP (Temperature) = 21.5 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-20
Chemical :	AL (Aluminum) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10
Samp Collection Date :	1987-10-20
Chemical :	FE (Iron) = 40 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-20
Chemical :	V (Vanadium) = 13 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-20
Chemical :	NA (Sodium) = 2000 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-20
Chemical :	CA (Calcium) = 300 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-20
Chemical :	PH (pH) = 7.7 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	51
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Longitude : -120.4137767

Source Chemicals

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Specific conductance 8900
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Total dissolved solids 12.8
Analytical Method : NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Sulfate 6200
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Temperature, water 21.5
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Aluminum Not Detected ug/l
Analytical Method : USGS OF 93-125, p 13
Reporting Limit : 10
Lab Note : N/R

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Iron 40
Analytical Method : USGS TWRI 5-A1/1989, p 239
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Vanadium 13
Analytical Method : USGS OF 93-125, p 211
Reporting Limit : N/R
Lab Note : N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Sodium 2000
Analytical Method : USGS TWRI 5-A1/1989, p 425
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : Calcium 300
Analytical Method : USGS TWRI 5-A1/1989, p 137
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-20 01:15:00
Chemical : pH 7.7
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Well Details
Well ID : USGS-363906120244622
Well Type : WATER SUPPLY, OTHER
Well Depth (Ft.) : 51.0
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Source : N/R
Data Source : NWIS
Source Name : USGS-363906120244622
Other Names : N/R
Latitude : 36.6516171
Longitude : -120.4137767
Last Date in Agency List : 2022-02-22

GM Chemicals
Samp Collection Date : 1988-07-21
Chemical : MN (Manganese) = 20 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-21
Chemical : CL (Chloride) = 380 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-21
Chemical : TDS (Total Dissolved Solids) = MG/L
CAS Number : N/R
Reporting Limit : N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1988-07-21
Chemical : PARAE (Parathion) ND 0 UG/L
CAS Number : N/R
Reporting Limit : .01

Samp Collection Date : 1988-07-21
Chemical : BR (Bromide) = 1.6 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-21
Chemical : HCO3 (bicarbonate HCO3) = 98 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-21
Chemical : SO4 (Sulfate) = 6100 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-21
Chemical : SC (Specific Conductivity) = 10500 UMHOS/CM
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-21
Chemical : TDS (Total Dissolved Solids) = 9400 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-21
Chemical : ATRAZINE (Atrazine) ND 0 UG/L
CAS Number : N/R
Reporting Limit : .1

Source Details
Datum : NAD83
Well Depth (Ft.) : 51
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6516171
Longitude : -120.4137767

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Chemicals

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Parathion Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 27
Reporting Limit :	0.01
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Bicarbonate 98
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Atrazine Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 46
Reporting Limit :	0.1
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Specific conductance 10500
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Diazinon Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 27
Reporting Limit :	0.01
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Trifluralin Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 46
Reporting Limit :	0.1
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Methomyl Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 49
Reporting Limit :	0.50
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Malathion Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 27
Reporting Limit :	0.01
Lab Note :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Simazine Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 46
Reporting Limit :	0.1
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-21 08:30:00
Chemical :	Prometon Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 46
Reporting Limit :	0.1
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120244629
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	21.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244629
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-10-20
Chemical :	PH (pH) = 7.6 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	K (Potassium) = 5.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	TDS (Total Dissolved Solids) = 5870 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	NI (Nickel) = 10 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1987-10-20
Chemical :	MN (Manganese) = 50 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	SE (Selenium) = 180 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	SO4 (Sulfate) = 3200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	FE (Iron) = 30 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	AL (Aluminum) = 10 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-20
Chemical :	F (Fluoride) = .1 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	21
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767

Source Chemicals

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	pH 7.6
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Potassium 5.80
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Total dissolved solids 5870
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Nickel 10
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Manganese 50
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Selenium 180
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Sulfate 3200
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Iron 30
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Aluminum 10
Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-10-20 12:30:00
Chemical :	Fluoride 0.10
Analytical Method :	USGS TWRI 5-A1/1989, p 221
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120244631
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	51.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244631
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-10-21
Chemical :	BA (Barium) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1987-10-21
Chemical :	V (Vanadium) = 31 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-21
Chemical :	CR (Chromium) = 36 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-21
Chemical :	CA (Calcium) = 350 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-10-21
Chemical :	B (Boron) = 22 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1987-10-21
Chemical : TEMP (Temperature) = 19.5 CELSIUS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-10-21
Chemical : MO (Molybdenum) = 95 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-10-21
Chemical : NA (Sodium) = 3300 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-10-21
Chemical : PH (pH) = 7.7 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-10-21
Chemical : MN (Manganese) = 30 UG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 51
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6516171
Longitude : -120.4137767

Source Chemicals
Samp Collection Date-Time : 1987-10-21 09:45:00
Chemical : Barium Not Detected ug/l
Analytical Method : USGS TWRI 5-A1/1989, p 89
Reporting Limit : 100
Lab Note : N/R

Samp Collection Date-Time : 1987-10-21 09:45:00
Chemical : Vanadium 31
Analytical Method : USGS OF 93-125, p 211
Reporting Limit : N/R
Lab Note : N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-10-21 09:45:00
Chemical :	Chromium 36
Analytical Method :	USGS OF 93-125, p 59
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:45:00
Chemical :	Calcium 350
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:45:00
Chemical :	Boron 22000
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:45:00
Chemical :	Temperature, water 19.5
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:45:00
Chemical :	Molybdenum 95
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:45:00
Chemical :	Sodium 3300
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:45:00
Chemical :	pH 7.7
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:45:00
Chemical :	Manganese 30
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Details

Well ID :	USGS-363906120244633
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	21.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244633
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-10-21
Chemical :	NA (Sodium) = 1800 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	TEMP (Temperature) = 19.5 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	CL (Chloride) = 430 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	PH (pH) = 8 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	MN (Manganese) = 30 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	SC (Specific Conductivity) = 8880 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	FE (Iron) = 30 UG/L

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-10-21
Chemical : H-3 (Tritium) = pCi/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-10-21
Chemical : AL (Aluminum) = 20 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-10-21
Chemical : SE (Selenium) = 120 UG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 21
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6516171
Longitude : -120.4137767

Source Chemicals
Samp Collection Date-Time : 1987-10-21 09:15:00
Chemical : Sodium 1800
Analytical Method : USGS TWRI 5-A1/1989, p 425
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-21 09:15:00
Chemical : Temperature, water 19.5
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-10-21 09:15:00
Chemical : Chloride 430
Analytical Method : USGS TWRI 5-A1/1989, p 151
Reporting Limit : N/R
Lab Note : N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-10-21 09:15:00
Chemical :	pH 8.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:15:00
Chemical :	Manganese 30
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:15:00
Chemical :	Specific conductance 8880
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:15:00
Chemical :	Iron 30
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:15:00
Chemical :	Tritium 15.8
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:15:00
Chemical :	Aluminum 20
Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-10-21 09:15:00
Chemical :	Selenium 120
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120244616
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	31.0
Top of Screen (Ft.) :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244616
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-07-02
Chemical :	N15N14NO3 (delta N-15, NO3) = 11.4 per mil
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-11
Chemical :	H-3 (Tritium) ND pCi/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-11
Chemical :	SE (Selenium) = 220 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-11
Chemical :	MN (Manganese) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-11
Chemical :	MG (Magnesium) = 430 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-11
Chemical :	TEMP (Temperature) = 22 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1987-06-11
Chemical :	CA (Calcium) = 360 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1987-06-11
Chemical : PH (pH) = 7.8 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1987-06-11
Chemical : BA (Barium) ND 0 MG/L
CAS Number : N/R
Reporting Limit : .1

Samp Collection Date : 1987-06-11
Chemical : FE (Iron) = 60 UG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 31
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6516171
Longitude : -120.4137767

Source Chemicals
Samp Collection Date-Time : 1987-07-02 12:15:00
Chemical : Nitrogen-15/14 ratio 11.40
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 13:30:00
Chemical : Tritium Not Detected T.U.
Analytical Method : N/R
Reporting Limit : 0.8
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 13:30:00
Chemical : Selenium 220
Analytical Method : USGS TWRI 5-A1/1989, p 403
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 13:30:00
Chemical : Manganese 20
Analytical Method : USGS TWRI 5-A1/1989, p 275
Reporting Limit : N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Lab Note :	N/R
Samp Collection Date-Time :	1987-06-11 13:30:00
Chemical :	Magnesium 430
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-11 13:30:00
Chemical :	Temperature, water 22.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-11 13:30:00
Chemical :	Calcium 360
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-11 13:30:00
Chemical :	pH 7.8
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-11 13:30:00
Chemical :	Barium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 89
Reporting Limit :	100
Lab Note :	N/R
Samp Collection Date-Time :	1987-06-11 13:30:00
Chemical :	Iron 60
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120244621
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	21.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244621

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Other Names : N/R
Latitude : 36.6516171
Longitude : -120.4137767
Last Date in Agency List : 2022-02-22

GM Chemicals

Samp Collection Date : 1988-07-22
Chemical : NA (Sodium) = 5300 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-22
Chemical : PHORATE (Phorate) ND 0 UG/L
CAS Number : N/R
Reporting Limit : .01

Samp Collection Date : 1988-07-22
Chemical : HCO3 (bicarbonate HCO3) = 280 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-22
Chemical : PH (pH) = 7.7 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-07-22
Chemical : DIAZ (Diazinon) ND 0 UG/L
CAS Number : N/R
Reporting Limit : .01

Samp Collection Date : 1988-07-22
Chemical : PROMETON (Prometon) ND 0 UG/L
CAS Number : N/R
Reporting Limit : .1

Samp Collection Date : 1988-07-22
Chemical : MALA (Malathion) ND 0 UG/L
CAS Number : N/R
Reporting Limit : .01

Samp Collection Date : 1988-07-22
Chemical : K (Potassium) = 5 MG/L
CAS Number : N/R
Reporting Limit : N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-07-22
Chemical :	SE (Selenium) = 3100 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-07-22
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	21
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767

Source Chemicals

Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Sodium 5300
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Phorate Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 27
Reporting Limit :	0.01
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Bicarbonate 280
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	pH 7.7
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Diazinon Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 27

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	0.01
Lab Note :	N/R
Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Prometon Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 46
Reporting Limit :	0.1
Lab Note :	N/R
Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Malathion Not Detected ug/l
Analytical Method :	USGS TWRI 5-A3/1987, p 27
Reporting Limit :	0.01
Lab Note :	N/R
Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Potassium 5.00
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Selenium 3100
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-07-22 09:00:00
Chemical :	Total dissolved solids 26.7
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120244601
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244601
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767
Last Date in Agency List :	2022-02-22

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Samp Collection Date :	1986-02-04
Chemical :	AL (Aluminum) = 10 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	TEMP (Temperature) = 16.5 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	CR (Chromium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1986-02-04
Chemical :	NI (Nickel) = 8 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	SE (Selenium) = 82 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	SC (Specific Conductivity) = 7250 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	SO4 (Sulfate) = 4000 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-02-04
Chemical :	SC (Specific Conductivity) = 7270 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-02-04
Chemical :	TDS (Total Dissolved Solids) = 6320 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767

Source Chemicals

Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Aluminum 10
Analytical Method :	USGS TWRI 5-A1/1989, p 61
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Temperature, water 16.5
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Chromium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Nickel 8
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Selenium 82
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Total dissolved solids 8.60

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Specific conductance 7250
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Sulfate 4000
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Specific conductance 7270
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-02-04 10:10:00
Chemical :	Total dissolved solids 6320
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120244634
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	11.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244634
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-10-21
Chemical :	TDS (Total Dissolved Solids) = 3970 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1987-10-21
Chemical :	V (Vanadium) = 12 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	BA (Barium) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1987-10-21
Chemical :	CR (Chromium) = 4 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	MN (Manganese) = 90 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	NI (Nickel) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	AL (Aluminum) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	MG (Magnesium) = 100 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	H-3 (Tritium) = pCi/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-10-21
Chemical :	CL (Chloride) = 390 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Details

Datum :	NAD83
Well Depth (Ft.) :	11
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767

Source Chemicals

Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Total dissolved solids 3970
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Vanadium 12
Analytical Method :	USGS OF 93-125, p 211
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Barium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 89
Reporting Limit :	100
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Chromium 4
Analytical Method :	USGS OF 93-125, p 59
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Manganese 90
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Nickel 2
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Aluminum 20

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Magnesium 100
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Tritium 13.2
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-10-21 09:30:00
Chemical :	Chloride 390
Analytical Method :	USGS TWRI 5-A1/1989, p 151
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363906120244614
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	51.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363906120244614
Other Names :	N/R
Latitude :	36.6516171
Longitude :	-120.4137767
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-07-01
Chemical :	N15N14NO3 (delta N-15, NO3) = 4.4 per mil
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-06-11
Chemical :	SO4 (Sulfate) = 4800 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1987-06-11
Chemical :	TEMP (Temperature) = 26 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-06-11
Chemical :	MN (Manganese) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10
Samp Collection Date :	1987-06-11
Chemical :	NO2 (Nitrite as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.01
Samp Collection Date :	1987-06-11
Chemical :	NA (Sodium) = 1700 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-06-11
Chemical :	AS (Arsenic) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-06-11
Chemical :	CA (Calcium) = 490 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-06-11
Chemical :	K (Potassium) = 2 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-06-11
Chemical :	NI (Nickel) = 6 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	51
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6516171

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Longitude : -120.4137767

Source Chemicals

Samp Collection Date-Time : 1987-07-01 18:30:00
Chemical : Nitrogen-15/14 ratio 4.40
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 16:30:00
Chemical : Sulfate 4800
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 16:30:00
Chemical : Temperature, water 26.0
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 16:30:00
Chemical : Manganese Not Detected ug/l
Analytical Method : USGS TWRI 5-A1/1989, p 275
Reporting Limit : 10
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 16:30:00
Chemical : Nitrite Not Detected mg/l as N
Analytical Method : USGS OF 93-125, p 143
Reporting Limit : 0.010
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 16:30:00
Chemical : Sodium 1700
Analytical Method : USGS TWRI 5-A1/1989, p 425
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1987-06-11 16:30:00
Chemical : Arsenic 2
Analytical Method : USGS TWRI 5-A1/1989, p 77
Reporting Limit : N/R
Lab Note : N/R

Map Id: 14
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : USGS-363906120244601 | USGS-363906120244604 | USGS-363906120244607
36.651617, -120.413777
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9197147
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1987-06-11 16:30:00
Chemical :	Calcium 490
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-06-11 16:30:00
Chemical :	Potassium 2.00
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1987-06-11 16:30:00
Chemical :	Nickel 6
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: D15
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 195 ft.
Relative: Higher

Site Name : USGS-363849120231701 | 363849120231701
36.646895, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9209464
EPA ID: N/R

NWIS

Site Identification Number :	363849120231701
Site Type :	Well
Station Name :	015S014E01R001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	192.0
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: D15
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 195 ft.
Relative: Higher

Site Name : USGS-363849120231701 | 363849120231701
36.646895, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9209464
EPA ID: N/R

NWIS ***(cont.)***

Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	11
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-04-02
Water-Quality Data End Date :	1986-04-02
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1986-04-02
Field Water-level Measurements End Date:	1986-04-02
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.646895
Longitude :	-120.389053
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363849120231701
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	11.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363849120231701
Other Names :	N/R
Latitude :	36.6468948
Longitude :	-120.3890534
Last Date in Agency List :	2022-02-22

GM Chemicals

Map Id: D15
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 195 ft.
Relative: Higher

Site Name : USGS-363849120231701 | 363849120231701
36.646895, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9209464
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-04-02
Chemical :	PH (pH) = 7.5 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	TOCH (Total Organic Carbon) = 4.7 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	CR (Chromium) = 16 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	CA (Calcium) = 560 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	CD (Cadmium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1986-04-02
Chemical :	MN (Manganese) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	MG (Magnesium) = 200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	TDS (Total Dissolved Solids) = 7610 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: D15
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 195 ft.
Relative: Higher

Site Name : USGS-363849120231701 | 363849120231701
36.646895, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9209464
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-04-02
Chemical :	AS (Arsenic) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	11
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6468948
Longitude :	-120.3890534

Source Chemicals

Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	pH 7.5
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Organic carbon 4.7
Analytical Method :	USGS OF 92-480
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Chromium 16
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Calcium 560
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Cadmium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 125
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Manganese 20
Analytical Method :	USGS TWRI 5-A1/1989, p 275

Map Id: D15
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 195 ft.
Relative: Higher

Site Name : USGS-363849120231701 | 363849120231701
36.646895, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9209464
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Magnesium 200
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Total dissolved solids 7610
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Total dissolved solids 10.3
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 12:15:00
Chemical :	Arsenic 2
Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 31322367
EPA ID: N/R

NWIS

Site Identification Number :	363851120241805
Site Type :	Well
Station Name :	015S014E01N007M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

NWIS ***(cont.)***

Scale of Location Map :	24000
Altitude of Gage/Land Surface :	205
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	40
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.64745
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

Site Identification Number :	363851120241803
Site Type :	Well
Station Name :	015S014E01N005M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	205
Method Altitude Determined :	Interpolated from topographic map.

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.64745
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

Site Identification Number :	363851120241807
Site Type :	Well
Station Name :	015S014E01N009M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	205
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

NWIS ***(cont.)***

Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	60
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.64745
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

Site Identification Number :	363851120241801
Site Type :	Well
Station Name :	015S014E01N002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWSWS01 T15S R13E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	205.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

NWIS ***(cont.)***

Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	1951-03-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1200
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1951-03-01
Field Water-level Measurements End Date:	1951-03-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.64745
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

Site Identification Number :	363851120241806
Site Type :	Well
Station Name :	015S014E01N008M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	205
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

NWIS ***(cont.)***

Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	50
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.64745
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

Site Identification Number :	363851120241804
Site Type :	Well
Station Name :	015S014E01N006M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	205
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

NWIS ***(cont.)***

Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	30
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.64745
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

Site Identification Number :	363851120241802
Site Type :	Well
Station Name :	015S014E01N003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	205.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

NWIS ***(cont.)***

Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-04-01
Water-Quality Data End Date :	1986-04-01
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.64745
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363851120241802
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363851120241802
Other Names :	N/R
Latitude :	36.6474504
Longitude :	-120.4059985
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-04-01
Chemical :	ZN (Zinc) = .01 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	CD (Cadmium) ND 0 UG/L

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

CAS Number : N/R
Reporting Limit : 1

Samp Collection Date : 1986-04-01
Chemical : MO (Molybdenum) = 130 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-04-01
Chemical : PB (Lead) ND 0 UG/L
CAS Number : N/R
Reporting Limit : 1

Samp Collection Date : 1986-04-01
Chemical : V (Vanadium) = 9 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-04-01
Chemical : SE (Selenium) = 5 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-04-01
Chemical : TDS (Total Dissolved Solids) = MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-04-01
Chemical : SO4 (Sulfate) = 3500 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-04-01
Chemical : MG (Magnesium) = 250 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1986-04-01
Chemical : AL (Aluminum) = 10 UG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : N/R

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6474504
Longitude :	-120.4059985

Source Chemicals

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Zinc 10
Analytical Method :	USGS TWRI 5-A1/1989, p 507
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Cadmium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 125
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Molybdenum 130
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Lead Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 245
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Vanadium 9
Analytical Method :	USGS OF 93-125, p 211
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Selenium 5
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Total dissolved solids 7.35
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: E16
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363851120241802 | 363851120241801 | 363851120241802
36.64745, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31322367
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Sulfate 3500
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Magnesium 250
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 12:45:00
Chemical :	Aluminum 10
Analytical Method :	USGS TWRI 5-A1/1989, p 61
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: E17
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363848120241701 | 363848120241701
36.646617, -120.405721
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9231824
EPA ID: N/R

NWIS

Site Identification Number :	363848120241701
Site Type :	Well
Station Name :	015S014E12D001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R

Map Id: E17
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363848120241701 | 363848120241701
36.646617, -120.405721
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9231824
EPA ID: N/R

NWIS ***(cont.)***

Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NNNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1984-05-10
Water-Quality Data End Date :	1984-05-10
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.646617
Longitude :	-120.405721
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363848120241701
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363848120241701
Other Names :	N/R
Latitude :	36.6466171
Longitude :	-120.4057207
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Map Id: E17
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363848120241701 | 363848120241701
36.646617, -120.405721
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9231824
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1984-05-10
Chemical :	TDS (Total Dissolved Solids) = 7920 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	FE (Iron) = 2400 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	CL (Chloride) = 320 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	SC (Specific Conductivity) = 8800 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	NO3N (Nitrate as N) = 44 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	CA (Calcium) = 590 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	SO4 (Sulfate) = 4900 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	SE (Selenium) = 10 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	AS (Arsenic) = 3 UG/L

Map Id: E17
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363848120241701 | 363848120241701
36.646617, -120.405721
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9231824
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : N/R
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6466171
Longitude : -120.4057207

Source Chemicals
Samp Collection Date-Time : 1984-05-10 11:00:00
Chemical : Total dissolved solids 7920
Analytical Method : NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1984-05-10 11:00:00
Chemical : Iron 2400
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1984-05-10 11:00:00
Chemical : Chloride 320
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1984-05-10 11:00:00
Chemical : Specific conductance 8800
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1984-05-10 11:00:00
Chemical : Nitrate 44.0
Analytical Method : NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1984-05-10 11:00:00
Chemical : Calcium 590
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Map Id: E17
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : USGS-363848120241701 | 363848120241701
36.646617, -120.405721
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9231824
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1984-05-10 11:00:00
Chemical :	Sulfate 4900
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 11:00:00
Chemical :	Selenium 10
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 11:00:00
Chemical :	Total dissolved solids 10.8
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 11:00:00
Chemical :	Arsenic 3
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 18
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 201 ft.
Relative: Higher

Site Name : 15S14E12A001M
36.6439, -120.396
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 36474095
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Well ID :	15S14E12A001M
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	Department of Water Resources
Data Source :	WDL
Source Name :	15S14E12A001M
Other Names :	N/R
Latitude :	36.6439
Longitude :	-120.396
Last Date in Agency List :	2022-02-22

Map Id: 18
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 201 ft.
Relative: Higher

Site Name : 15S14E12A001M
36.6439, -120.396
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474095
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1965-10-28
Chemical :	B (Boron) = 15 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1965-10-28
Chemical :	MG (Magnesium) = 166 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1965-10-28
Chemical :	CL (Chloride) = 525 MG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1965-10-28
Chemical :	PH (pH) = 8.2 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1965-10-28
Chemical :	SO4 (Sulfate) = 5317 MG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1965-10-28
Chemical :	TDS (Total Dissolved Solids) = 8854 MG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1965-10-28
Chemical :	ALKCACO3 (Alkalinity as CaCO3) = 226 MG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1964-08-10
Chemical :	TDS (Total Dissolved Solids) = 9993 MG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1964-08-10
Chemical :	CL (Chloride) = 667 MG/L
CAS Number :	N/R

Map Id: 18
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 201 ft.
Relative: Higher

Site Name : 15S14E12A001M
36.6439, -120.396
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474095
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit : 1

Samp Collection Date : 1964-08-10
Chemical : MG (Magnesium) = 216 MG/L
CAS Number : N/R
Reporting Limit : .1

Source Details
Datum : N/R
Well Depth (Ft.) : N/R
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6439
Longitude : -120.396

Source Chemicals
Samp Collection Date-Time : 1965-10-28
Chemical : Dissolved Boron = 15 mg/L
Analytical Method : UnkMod Boron
Reporting Limit : .1
Lab Note : N/R

Samp Collection Date-Time : 1965-10-28
Chemical : Dissolved Magnesium = 166 mg/L
Analytical Method : UnkMod Magnesium
Reporting Limit : .1
Lab Note : N/R

Samp Collection Date-Time : 1965-10-28
Chemical : Dissolved Chloride = 525 mg/L
Analytical Method : UnkMod Chloride
Reporting Limit : 1
Lab Note : N/R

Samp Collection Date-Time : 1965-10-28
Chemical : pH = 8.2 pH Units
Analytical Method : EPA 150.1
Reporting Limit : .1
Lab Note : N/R

Samp Collection Date-Time : 1965-10-28
Chemical : Dissolved Sulfate = 5317 mg/L
Analytical Method : UnkMod Sulfate
Reporting Limit : 1
Lab Note : N/R

Map Id: 18
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 201 ft.
Relative: Higher

Site Name : 15S14E12A001M
36.6439, -120.396
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474095
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1965-10-28
Chemical :	Total Dissolved Solids = 8854 mg/L at 180 deg C
Analytical Method :	UnkMod TDS
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1965-10-28
Chemical :	Total Alkalinity = 226 mg/L as CaCO3
Analytical Method :	UnkMod Alkalinity
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1964-08-10
Chemical :	Total Dissolved Solids = 9993 mg/L at 180 deg C
Analytical Method :	UnkMod TDS
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1964-08-10
Chemical :	Dissolved Chloride = 667 mg/L
Analytical Method :	UnkMod Chloride
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1964-08-10
Chemical :	Dissolved Magnesium = 216 mg/L
Analytical Method :	UnkMod Magnesium
Reporting Limit :	.1
Lab Note :	N/R

Map Id: 19
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : 363834120241801
36.642728, -120.405998
CA

Database(s) : [NWIS]

Envirosite ID: 9257195
EPA ID: N/R

NWIS

Site Identification Number :	363834120241801
Site Type :	Well
Station Name :	015S014E12E001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R

Map Id: 19
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : 363834120241801
36.642728, -120.405998
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9257195
EPA ID: N/R

NWIS ***(cont.)***

Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	206.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1507
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1961-05-01
Field Water-level Measurements End Date:	1961-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.642728
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

Map Id: 20
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 204 ft.
Relative: Higher

Site Name : USGS-363822120234901 | 363822120234901
36.639395, -120.397942
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9221194
EPA ID: N/R

NWIS

Site Identification Number :	363822120234901
Site Type :	Well
Station Name :	FARM DRAIN 136.0-3.9S
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NNNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1984-08-07
Water-Quality Data End Date :	1984-08-07
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.639395
Longitude :	-120.397942
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363822120234901

Map Id: 20
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 204 ft.
Relative: Higher

Site Name : USGS-363822120234901 | 363822120234901
36.639395, -120.397942
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9221194
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363822120234901
Other Names :	N/R
Latitude :	36.6393949
Longitude :	-120.3979424
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1984-08-07
Chemical :	SC (Specific Conductivity) = 6910 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-07
Chemical :	BE (Beryllium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10

Samp Collection Date :	1984-08-07
Chemical :	SC (Specific Conductivity) = 7180 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-07
Chemical :	SO4 (Sulfate) = 3200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-07
Chemical :	NH3NH4N (Ammonia) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.013

Samp Collection Date :	1984-08-07
Chemical :	CR (Chromium) = 30 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 20
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 204 ft.
Relative: Higher

Site Name : USGS-363822120234901 | 363822120234901
36.639395, -120.397942
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9221194
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1984-08-07
Chemical :	NO3N (Nitrate as N) = 48 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-07
Chemical :	B (Boron) = 7.9 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-07
Chemical :	TDS (Total Dissolved Solids) = 6370 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-07
Chemical :	SR (Strontium) = 4000 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6393949
Longitude :	-120.3979424

Source Chemicals

Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Specific conductance 6910
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Beryllium Not Detected ug/l
Analytical Method :	N/R
Reporting Limit :	10
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Specific conductance 7180
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 20
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 204 ft.
Relative: Higher

Site Name : USGS-363822120234901 | 363822120234901
36.639395, -120.397942
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9221194
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Sulfate 3200
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Ammonia and ammonium Not Detected mg/l NH4
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	0.013
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Chromium 30
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Nitrate 48.0
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Boron 7900
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Total dissolved solids 6370
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-07 14:45:00
Chemical :	Strontium 4000
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: F21
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363816120241801 | 363816120241801
36.637728, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9222406
EPA ID: N/R

NWIS

Site Identification Number :	363816120241801
Site Type :	Well
Station Name :	015S014E12M001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	207.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1947-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	Alluvium Above and Below E-Clay (Miocene-Pleistocene)
Local Aquifer Type :	N/R
Well Depth :	1294
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1951-08-14
Water-Quality Data End Date :	1951-08-14
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1955-05-01
Field Water-level Measurements End Date:	1955-05-01
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.637728
Longitude :	-120.405998
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363816120241801

Map Id: F21
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363816120241801 | 363816120241801
36.637728, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222406
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	1294.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363816120241801
Other Names :	N/R
Latitude :	36.6377282
Longitude :	-120.4059982
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1951-08-14
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	HCO3 (bicarbonate HCO3) = 220 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	SC (Specific Conductivity) = 1390 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	TEMP (Temperature) = 24.4 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	TDS (Total Dissolved Solids) = 920 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	SO4 (Sulfate) = 540 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 45 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: F21
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363816120241801 | 363816120241801
36.637728, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222406
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1951-08-14
Chemical :	B (Boron) = 1.6 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	NA (Sodium) = 190 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	PH (pH) = 7.4 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	1294
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6377282
Longitude :	-120.4059982

Source Chemicals

Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 1.25
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Bicarbonate 220
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Specific conductance 1390
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Temperature, water 24.4
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: F21
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363816120241801 | 363816120241801
36.637728, -120.405998
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222406
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 920
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Sulfate 540
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Chloride 45.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Boron 1600
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Sodium 190
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	pH 7.4
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: F22
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : 15S14E12M001M
36.6375, -120.406
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 9315370
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Map Id: F22
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : 15S14E12M001M
36.6375, -120.406
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9315370
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well ID :	15S14E12M001M
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	Department of Water Resources
Data Source :	WDL
Source Name :	15S14E12M001M
Other Names :	N/R
Latitude :	36.6375
Longitude :	-120.406
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1965-11-04
Chemical :	ALKCACO3 (Alkalinity as CaCO3) = 205 MG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1965-11-04
Chemical :	CL (Chloride) = 37 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1965-11-04
Chemical :	PH (pH) = 8.7 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-14
Chemical :	ALKCACO3 (Alkalinity as CaCO3) = 177 MG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1951-08-14
Chemical :	PH (pH) = 7.4 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 45 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-14
Chemical :	B (Boron) = 1.6 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Map Id: F22
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : 15S14E12M001M
36.6375, -120.406
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9315370
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1951-08-14
Chemical : SO4 (Sulfate) = 540 MG/L
CAS Number : N/R
Reporting Limit : 1

Source Details
Datum : N/R
Well Depth (Ft.) : N/R
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6375
Longitude : -120.406

Source Chemicals
Samp Collection Date-Time : 1965-11-04
Chemical : Total Alkalinity = 205 mg/L as CaCO3
Analytical Method : EPA 310.1
Reporting Limit : 1
Lab Note : N/R

Samp Collection Date-Time : 1965-11-04
Chemical : Dissolved Chloride = 37 mg/L
Analytical Method : Std Method 4500-Cl, B
Reporting Limit : .1
Lab Note : N/R

Samp Collection Date-Time : 1965-11-04
Chemical : pH = 8.7 pH Units
Analytical Method : EPA 150.1
Reporting Limit : .1
Lab Note : N/R

Samp Collection Date-Time : 1951-08-14
Chemical : Total Alkalinity = 177 mg/L as CaCO3
Analytical Method : UnkH Alkalinity
Reporting Limit : 1
Lab Note : N/R

Samp Collection Date-Time : 1951-08-14
Chemical : pH = 7.4 pH Units
Analytical Method : UnkH pH
Reporting Limit : .1
Lab Note : N/R

Samp Collection Date-Time : 1951-08-14
Chemical : Dissolved Chloride = 45 mg/L
Analytical Method : UnkH Chloride
Reporting Limit : .1

Map Id: F22
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : 15S14E12M001M
36.6375, -120.406
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9315370
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Boron = 1.6 mg/L
Analytical Method :	UnkH Boron
Reporting Limit :	.1
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Sulfate = 540 mg/L
Analytical Method :	UnkH Sulfate
Reporting Limit :	1
Lab Note :	N/R

Map Id: G23
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : USGS-363757120231701 |
363757120231701
36.63245, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9217677
EPA ID: N/R

NWIS

Site Identification Number :	363757120231701
Site Type :	Well
Station Name :	015S014E12R001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	195.0
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN

Map Id: G23
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : USGS-363757120231701 | 363757120231701
36.63245, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217677
EPA ID: N/R

NWIS ***(cont.)***

National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-04-03
Water-Quality Data End Date :	1986-04-03
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1986-04-03
Field Water-level Measurements End Date:	1986-04-03
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.63245
Longitude :	-120.389053
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363757120231701
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	20.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363757120231701
Other Names :	N/R
Latitude :	36.6324504
Longitude :	-120.3890529
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-04-03
Chemical :	NI (Nickel) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: G23
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : USGS-363757120231701 | 363757120231701
36.63245, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217677
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-04-03
Chemical :	MG (Magnesium) = 170 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-03
Chemical :	NA (Sodium) = 3800 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-03
Chemical :	SE (Selenium) = 2100 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-03
Chemical :	SO4 (Sulfate) = 7200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-03
Chemical :	TOCH (Total Organic Carbon) = 14 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-03
Chemical :	AL (Aluminum) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10
Samp Collection Date :	1986-04-03
Chemical :	H-3 (Tritium) = pCi/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-03
Chemical :	ZN (Zinc) = .01 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-03
Chemical :	HG (Mercury) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.1

Map Id: G23
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : USGS-363757120231701 | 363757120231701
36.63245, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217677
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Details

Datum :	NAD83
Well Depth (Ft.) :	20
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6324504
Longitude :	-120.3890529

Source Chemicals

Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Nickel 2
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Magnesium 170
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Sodium 3800
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Selenium 2100
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Sulfate 7200
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Organic carbon 14.0
Analytical Method :	USGS OF 92-480
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Aluminum Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 61

Map Id: G23
Direction: S
Distance: 0.000 mi., 0 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : USGS-363757120231701 | 363757120231701
36.63245, -120.389053
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217677
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	10
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Tritium 8.2
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Zinc 10
Analytical Method :	USGS TWRI 5-A1/1989, p 507
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-03 08:45:00
Chemical :	Mercury Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	0.1
Lab Note :	N/R

Map Id: H24
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 363700120245201
36.616617, -120.415442
CA

Database(s) : [NWIS]

Envirosite ID: 9224355
EPA ID: N/R

NWIS

Site Identification Number :	363700120245201
Site Type :	Well
Station Name :	015S014E23B003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	208.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat

Map Id: H24
Direction: SSW
Distance: 0.000 mi., 0 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 363700120245201
36.616617, -120.415442
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9224355
EPA ID: N/R

NWIS ***(cont.)***

Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1955-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	810
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1960-05-01
Field Water-level Measurements End Date:	1960-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.616617
Longitude :	-120.415442
Last Date in Agency List :	2022-03-04

Map Id: B25
Direction: SSW
Distance: 0.012 mi., 63 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : 363943120241701
36.661895, -120.405721
CA

Database(s) : [NWIS]

Envirosite ID: 9222836
EPA ID: N/R

NWIS

Site Identification Number :	363943120241701
Site Type :	Well
Station Name :	014S014E36N002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWSWS36 T14S R14E M

Map Id: B25
Direction: SSW
Distance: 0.012 mi., 63 ft.
Elevation: 209 ft.
Relative: Higher

Site Name : 363943120241701
36.661895, -120.405721
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9222836
EPA ID: N/R

NWIS ***(cont.)***

Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	206.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1959-11-01
Date Site Established or Inventoried:	1960-05-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1312
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1960-05-01
Field Water-level Measurements End Date:	1960-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.661895
Longitude :	-120.405721
Last Date in Agency List :	2022-03-04

Map Id: H26
Direction: SSW
Distance: 0.015 mi., 78 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 363702120245301
36.617173, -120.41572
CA

Database(s) : [NWIS]

Envirosite ID: 9217443
EPA ID: N/R

NWIS

Site Identification Number :	363702120245301
Site Type :	Well
Station Name :	015S014E23B001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	209.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1949-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	719
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1959-05-01
Field Water-level Measurements End Date:	1959-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.617173
Longitude :	-120.41572
Last Date in Agency List :	2022-03-04

Map Id: D27
Direction: S
Distance: 0.015 mi., 79 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : 15S15E06N001M
36.6472, -120.388
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 36474441
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Well ID :	15S15E06N001M
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	Department of Water Resources
Data Source :	WDL
Source Name :	15S15E06N001M
Other Names :	N/R
Latitude :	36.6472
Longitude :	-120.388
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1951-08-15
Chemical :	SO4 (Sulfate) = 460 MG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1951-08-15
Chemical :	CL (Chloride) = 50 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-15
Chemical :	B (Boron) = 1.2 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-15
Chemical :	ALKCACO3 (Alkalinity as CaCO3) = 202 MG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1951-08-15
Chemical :	PH (pH) = 7.4 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1

Source Details

Datum :	N/R
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6472
Longitude :	-120.388

Map Id: D27
Direction: S
Distance: 0.015 mi., 79 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : 15S15E06N001M
36.6472, -120.388
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474441
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Chemicals

Samp Collection Date-Time :	1951-08-15
Chemical :	Dissolved Sulfate = 460 mg/L
Analytical Method :	UnkH Sulfate
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-15
Chemical :	Dissolved Chloride = 50 mg/L
Analytical Method :	UnkH Chloride
Reporting Limit :	.1
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-15
Chemical :	Dissolved Boron = 1.2 mg/L
Analytical Method :	UnkH Boron
Reporting Limit :	.1
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-15
Chemical :	Total Alkalinity = 202 mg/L as CaCO3
Analytical Method :	UnkH Alkalinity
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-15
Chemical :	pH = 7.4 pH Units
Analytical Method :	UnkH pH
Reporting Limit :	.1
Lab Note :	N/R

Map Id: H28
Direction: SSW
Distance: 0.015 mi., 81 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 363704120245301
36.617728, -120.41572
CA

Database(s) : [NWIS]

Envirosite ID: 9257161
EPA ID: N/R

NWIS

Site Identification Number :	363704120245301
Site Type :	Well
Station Name :	015S014E23B002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA

Map Id: H28
Direction: SSW
Distance: 0.015 mi., 81 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 363704120245301
36.617728, -120.41572
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9257161
EPA ID: N/R

NWIS ***(cont.)***

Land Net Location :	NWNWNES23 T15S R14E M
Name of Location Map :	LEVIS
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1946-01-01
Date Site Established or Inventoried:	1951-03-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	685
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1951-03-01
Field Water-level Measurements End Date:	1951-03-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.617728
Longitude :	-120.41572
Last Date in Agency List :	2022-03-04

Map Id: D29
Direction: S
Distance: 0.018 mi., 96 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : 363850120231301
36.647173, -120.387942
CA

Database(s) : [NWIS]

Envirosite ID: 9222130
EPA ID: N/R

NWIS

Site Identification Number :	363850120231301
Site Type :	Well
Station Name :	015S015E06N001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWSWS06 T15S R15E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	192.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1947-10-02
Date Site Established or Inventoried:	1950-07-28
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1321
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1959-03-01
Field Water-level Measurements End Date:	1959-03-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.647173
Longitude :	-120.387942
Last Date in Agency List :	2022-03-04

Map Id: A30
Direction: S
Distance: 0.022 mi., 118 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : 363941120231201
36.661339, -120.387665
CA

Database(s) : [NWIS]

Envirosite ID: 9218036
EPA ID: N/R

NWIS

Site Identification Number :	363941120231201
Site Type :	Well
Station Name :	015S015E06E001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	191.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1985-01-08
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	13.2
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.661339
Longitude :	-120.387665
Last Date in Agency List :	2022-03-04

Map Id: 31
Direction: SSW
Distance: 0.023 mi., 122 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363722120242101 | 363722120242101 | 363722120242102
36.622728, -120.406831
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9205889
EPA ID: N/R

NWIS

Site Identification Number :	363722120242102
Site Type :	Well
Station Name :	015S014E14J002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	207.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1941-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	825
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.622728
Longitude :	-120.406831
Last Date in Agency List :	2022-03-04

Site Identification Number :	363722120242101
Site Type :	Well
Station Name :	015S014E14J001M

Map Id: 31
Direction: SSW
Distance: 0.023 mi., 122 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363722120242101 | 363722120242101 | 363722120242102
36.622728, -120.406831
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9205889
EPA ID: N/R

NWIS ***(cont.)***

Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	207.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1913-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1010
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1951-08-14
Water-Quality Data End Date :	1951-08-14
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.622728
Longitude :	-120.406831
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363722120242101
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	1010.0
Top of Screen (Ft.) :	N/R

Map Id: 31
Direction: SSW
Distance: 0.023 mi., 122 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363722120242101 | 363722120242101 | 363722120242102
36.622728, -120.406831
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9205889
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363722120242101
Other Names :	N/R
Latitude :	36.6227282
Longitude :	-120.406831
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1951-08-14
Chemical :	TEMP (Temperature) = 27.8 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	SC (Specific Conductivity) = 1250 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	HCO3 (bicarbonate HCO3) = 150 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	TDS (Total Dissolved Solids) = 800 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	PH (pH) = 7.4 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 45 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	SO4 (Sulfate) = 400 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	NA (Sodium) = 200 MG/L

Map Id: 31
Direction: SSW
Distance: 0.023 mi., 122 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363722120242101 | 363722120242101 | 363722120242102
36.622728, -120.406831
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9205889
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : B (Boron) = 1.3 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : TDS (Total Dissolved Solids) = MG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 1010
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6227282
Longitude : -120.406831

Source Chemicals
Samp Collection Date-Time : 1951-08-14
Chemical : Temperature, water 27.8
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1951-08-14
Chemical : Specific conductance 1250
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1951-08-14
Chemical : Bicarbonate 150
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1951-08-14
Chemical : Total dissolved solids 800
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Map Id: 31
Direction: SSW
Distance: 0.023 mi., 122 ft.
Elevation: 210 ft.
Relative: Higher

Site Name : USGS-363722120242101 | 363722120242101 | 363722120242102
36.622728, -120.406831
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9205889
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1951-08-14
Chemical :	pH 7.4
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Chloride 45.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Sulfate 400
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Sodium 200
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Boron 1300
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 1.09
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 32
Direction: S
Distance: 0.025 mi., 133 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : 363706120231401 | 363706120231402
36.618284, -120.388219
CA

Database(s) : [NWIS]

Envirosite ID: 9209879
EPA ID: N/R

NWIS

Site Identification Number :	363706120231401

Map Id: 32
Direction: S
Distance: 0.025 mi., 133 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : 363706120231401 | 363706120231402
36.618284, -120.388219
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9209879
EPA ID: N/R

NWIS ***(cont.)***

Site Type :	Well
Station Name :	015S015E18N001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	LEVIS
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	195.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1961-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	175
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.618284
Longitude :	-120.388219
Last Date in Agency List :	2022-03-04

Site Identification Number :	363706120231402
Site Type :	Well
Station Name :	015S015E18N002M
Agency :	U.S. Geological Survey
District :	N/R

Map Id: 32
Direction: S
Distance: 0.025 mi., 133 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : 363706120231401 | 363706120231402
36.618284, -120.388219
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9209879
EPA ID: N/R

NWIS ***(cont.)***

State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	LEVIS
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	195.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1962-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	40.0
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1962-03-01
Field Water-level Measurements End Date:	1985-01-24
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.618284
Longitude :	-120.388219
Last Date in Agency List :	2022-03-04

Map Id: 33
Direction: S
Distance: 0.026 mi., 140 ft.
Elevation: 203 ft.
Relative: Higher

Site Name : 0401906075
36.614002, -120.399376
CA

Database(s) : [OIL & GAS WELLS - CA]

Envirosite ID: 10306165
EPA ID: N/R

OIL & GAS WELLS - CA

Spud Date :	1950-07-20
API Number :	0401906075
Well Status :	Plugged
Well Type :	Dry Hole
Operator Code :	S3100
Operator Name :	Shell Western E&P Inc.
Lease Name :	Coffin
Field Name :	Any Field
Area Name :	Any Area
District :	Inland
County :	Fresno
Section/Township/Range :	SEC 24, TWP 15S, RNG 14E
Base Meridian :	Mount Diablo
GIS Source :	hud
Confidential Well :	No
Directionallly Drilled :	No
Latitude :	36.614002
Longitude :	-120.399376
Last Date in Agency List :	2022-04-04

Map Id: A34
Direction: S
Distance: 0.026 mi., 140 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363943120231201 |
363943120231201
36.661895, -120.387665
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9218091
EPA ID: N/R

NWIS

Site Identification Number :	363943120231201
Site Type :	Well
Station Name :	014S015E31N001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWSWS31 T14S R15E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	192.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1947-09-04
Date Site Established or Inventoried:	1950-07-24

Map Id: A34
Direction: S
Distance: 0.026 mi., 140 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363943120231201 | 363943120231201
36.661895, -120.387665
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218091
EPA ID: N/R

NWIS ***(cont.)***

Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	Alluvium Above and Below E-Clay (Miocene-Pleistocene)
Local Aquifer Type :	N/R
Well Depth :	1200
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1951-08-14
Water-Quality Data End Date :	1951-08-14
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1957-05-01
Field Water-level Measurements End Date:	1957-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.661895
Longitude :	-120.387665
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363943120231201
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	1200.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363943120231201
Other Names :	N/R
Latitude :	36.6618948
Longitude :	-120.387665
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1951-08-14
Chemical :	NA (Sodium) = 590 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: A34
Direction: S
Distance: 0.026 mi., 140 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363943120231201 | 363943120231201
36.661895, -120.387665
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218091
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1951-08-14
Chemical :	B (Boron) = 1.6 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 600 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	TDS (Total Dissolved Solids) = 5700 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	PH (pH) = 7.3 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	SC (Specific Conductivity) = 5700 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	SO4 (Sulfate) = 1600 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	TEMP (Temperature) = 23.3 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	HCO3 (bicarbonate HCO3) = 230 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: A34
Direction: S
Distance: 0.026 mi., 140 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363943120231201 | 363943120231201
36.661895, -120.387665
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218091
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Details

Datum :	NAD83
Well Depth (Ft.) :	1200
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6618948
Longitude :	-120.387665

Source Chemicals

Samp Collection Date-Time :	1951-08-14
Chemical :	Sodium 590
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Boron 1600
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Chloride 600
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 5700
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	pH 7.3
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 7.75
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Specific conductance 5700
Analytical Method :	N/R

Map Id: A34
Direction: S
Distance: 0.026 mi., 140 ft.
Elevation: 194 ft.
Relative: Higher

Site Name : USGS-363943120231201 | 363943120231201
36.661895, -120.387665
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218091
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Sulfate 1600
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Temperature, water 23.3
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Bicarbonate 230
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: H35
Direction: SSW
Distance: 0.030 mi., 161 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 15S14E23B001M
36.6172, -120.416
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 36474497
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Well ID :	15S14E23B001M
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	Department of Water Resources
Data Source :	WDL
Source Name :	15S14E23B001M
Other Names :	N/R
Latitude :	36.6172
Longitude :	-120.416
Last Date in Agency List :	2022-02-22

Map Id: H35
Direction: SSW
Distance: 0.030 mi., 161 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 15S14E23B001M
36.6172, -120.416
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474497
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Samp Collection Date :	1951-08-14
Chemical :	B (Boron) = 1.3 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-14
Chemical :	SO4 (Sulfate) = 590 MG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 45 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1951-08-14
Chemical :	ALKCACO3 (Alkalinity as CaCO3) = 177 MG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1951-08-14
Chemical :	PH (pH) = 7.5 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1

Source Details

Datum :	N/R
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6172
Longitude :	-120.416

Source Chemicals

Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Boron = 1.3 mg/L
Analytical Method :	UnkH Boron
Reporting Limit :	.1
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Sulfate = 590 mg/L
Analytical Method :	UnkH Sulfate
Reporting Limit :	1
Lab Note :	N/R

Map Id: H35
Direction: SSW
Distance: 0.030 mi., 161 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 15S14E23B001M
36.6172, -120.416
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474497
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Chloride = 45 mg/L
Analytical Method :	UnkH Chloride
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Total Alkalinity = 177 mg/L as CaCO3
Analytical Method :	UnkH Alkalinity
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	pH = 7.5 pH Units
Analytical Method :	UnkH pH
Reporting Limit :	.1
Lab Note :	N/R

Map Id: I36
Direction: S
Distance: 0.032 mi., 168 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : 15S15E18E001M
36.6261, -120.388
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 36474048
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Well ID :	15S15E18E001M
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	Department of Water Resources
Data Source :	WDL
Source Name :	15S15E18E001M
Other Names :	N/R
Latitude :	36.6261
Longitude :	-120.388
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1951-08-14
Chemical :	B (Boron) = .9 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Map Id: I36
Direction: S
Distance: 0.032 mi., 168 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : 15S15E18E001M
36.6261, -120.388
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474048
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1951-08-14
Chemical :	PH (pH) = 7.4 PH UNITS
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 50 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1951-08-14
Chemical :	ALKCACO3 (Alkalinity as CaCO3) = 185 MG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1951-08-14
Chemical :	SO4 (Sulfate) = 540 MG/L
CAS Number :	N/R
Reporting Limit :	1

Source Details

Datum :	N/R
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6261
Longitude :	-120.388

Source Chemicals

Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Boron = .9 mg/L
Analytical Method :	UnkH Boron
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	pH = 7.4 pH Units
Analytical Method :	UnkH pH
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Chloride = 50 mg/L
Analytical Method :	UnkH Chloride
Reporting Limit :	.1
Lab Note :	N/R

Map Id: I36
Direction: S
Distance: 0.032 mi., 168 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : 15S15E18E001M
36.6261, -120.388
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 36474048
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1951-08-14
Chemical :	Total Alkalinity = 185 mg/L as CaCO3
Analytical Method :	UnkH Alkalinity
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Dissolved Sulfate = 540 mg/L
Analytical Method :	UnkH Sulfate
Reporting Limit :	1
Lab Note :	N/R

Map Id: I37
Direction: S
Distance: 0.035 mi., 188 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : 363732120231301
36.625506, -120.387941
CA

Database(s) : [NWIS]

Envirosite ID: 9222306
EPA ID: N/R

NWIS

Site Identification Number :	363732120231301
Site Type :	Well
Station Name :	015S015E18E001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWNWS18 T15S R15E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	194.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1951-12-06
Date Site Established or Inventoried:	1952-07-28
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1036

Map Id: I37
Direction: S
Distance: 0.035 mi., 188 ft.
Elevation: 198 ft.
Relative: Higher

Site Name : 363732120231301
36.625506, -120.387941
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9222306
EPA ID: N/R

NWIS ***(cont.)***

Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1961-05-01
Field Water-level Measurements End Date:	1961-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.625506
Longitude :	-120.387941
Last Date in Agency List :	2022-03-04

Map Id: H38
Direction: SSW
Distance: 0.040 mi., 212 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 363707120245101
36.618562, -120.415165
CA

Database(s) : [NWIS]

Envirosite ID: 9253662
EPA ID: N/R

NWIS

Site Identification Number :	363707120245101
Site Type :	Well
Station Name :	015S014E14Q001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	209.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1963-01-01

Map Id: H38
Direction: SSW
Distance: 0.040 mi., 212 ft.
Elevation: 213 ft.
Relative: Higher

Site Name : 363707120245101
36.618562, -120.415165
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9253662
EPA ID: N/R

NWIS ***(cont.)***

Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.618562
Longitude :	-120.415165
Last Date in Agency List :	2022-03-04

Map Id: 39
Direction: SSW
Distance: 0.048 mi., 257 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363848120245201 |
363848120245201
36.646617, -120.415443
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9217806
EPA ID: N/R

NWIS

Site Identification Number :	363848120245201
Site Type :	Well
Station Name :	FARM DRAIN 136.0-4.9
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R

Map Id: 39
Direction: SSW
Distance: 0.048 mi., 257 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363848120245201 | 363848120245201
36.646617, -120.415443
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217806
EPA ID: N/R

NWIS ***(cont.)***

Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NNNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1984-08-06
Water-Quality Data End Date :	1984-08-06
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.646617
Longitude :	-120.415443
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363848120245201
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363848120245201
Other Names :	N/R
Latitude :	36.6466171
Longitude :	-120.4154433
Last Date in Agency List :	2022-02-22

Map Id: 39
Direction: SSW
Distance: 0.048 mi., 257 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363848120245201 | 363848120245201
36.646617, -120.415443
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217806
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1984-08-06
Chemical :	AS (Arsenic) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1984-08-06
Chemical :	LI (Lithium) = 280 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-06
Chemical :	PB (Lead) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	100

Samp Collection Date :	1984-08-06
Chemical :	BR (Bromide) = 1.7 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-06
Chemical :	NA (Sodium) = 1500 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-06
Chemical :	ZN (Zinc) = .04 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-06
Chemical :	TDS (Total Dissolved Solids) = 6690 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-06
Chemical :	TDS (Total Dissolved Solids) = 6610 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-06
Chemical :	CU (Copper) ND 0 MG/L

Map Id: 39
Direction: SSW
Distance: 0.048 mi., 257 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363848120245201 | 363848120245201
36.646617, -120.415443
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217806
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

CAS Number : N/R
Reporting Limit : .01

Samp Collection Date : 1984-08-06
Chemical : NH3NH4N (Ammonia) = .13 MG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : N/R
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.6466171
Longitude : -120.4154433

Source Chemicals
Samp Collection Date-Time : 1984-08-06 18:45:00
Chemical : Arsenic Not Detected ug/l
Analytical Method : N/R
Reporting Limit : 1.0
Lab Note : N/R

Samp Collection Date-Time : 1984-08-06 18:45:00
Chemical : Lithium 280
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1984-08-06 18:45:00
Chemical : Lead Detected Not Quantified ug/l
Analytical Method : N/R
Reporting Limit : 100
Lab Note : N/R

Samp Collection Date-Time : 1984-08-06 18:45:00
Chemical : Bromide 1.7
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1984-08-06 18:45:00
Chemical : Sodium 1500
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Map Id: 39
Direction: SSW
Distance: 0.048 mi., 257 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363848120245201 | 363848120245201
36.646617, -120.415443
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217806
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1984-08-06 18:45:00
Chemical :	Zinc 40
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-06 18:45:00
Chemical :	Total dissolved solids 6690
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-06 18:45:00
Chemical :	Total dissolved solids 6610
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-06 18:45:00
Chemical :	Copper Detected Not Quantified ug/l
Analytical Method :	N/R
Reporting Limit :	10
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-06 18:45:00
Chemical :	Ammonia and ammonium 0.130
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 40
Direction: SSW
Distance: 0.049 mi., 258 ft.
Elevation: 211 ft.
Relative: Higher

Site Name : 363758120242201
36.632728, -120.407109
CA

Database(s) : [NWIS]

Envirosite ID: 9231688
EPA ID: N/R

NWIS

Site Identification Number :	363758120242201
Site Type :	Well
Station Name :	015S014E11R001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA

Map Id: 40
Direction: SSW
Distance: 0.049 mi., 258 ft.
Elevation: 211 ft.
Relative: Higher

Site Name : 363758120242201
36.632728, -120.407109
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9231688
EPA ID: N/R

NWIS ***(cont.)***

Land Net Location :	SESESES11 T15S R14E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	208.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	1951-03-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	205
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.632728
Longitude :	-120.407109
Last Date in Agency List :	2022-03-04

Map Id: 41
Direction: NNE
Distance: 0.051 mi., 272 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 1010021-001
36.766667, -120.366667
CA

Database(s) : [WELLS - GAMA - CA]

Envirosite ID: 23660833
EPA ID: N/R

WELLS - GAMA - CA

Well Details

Well ID :	1010021-001
Well Type :	MUNICIPAL
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	Division of Drinking Water
Data Source :	DDW
Source Name :	1010021-001
Other Names :	WELL 01 - DESTROYED
Latitude :	36.766667
Longitude :	-120.366667
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1989-12-07
Chemical :	PCA (1,1,2,2 Tetrachloroethane (PCA)) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	.5

Samp Collection Date :	1989-12-07
Chemical :	DBCP (1,2-Dibromo-3-chloropropane (DBCP)) < .01 UG/L
CAS Number :	N/R
Reporting Limit :	.01

Samp Collection Date :	1989-12-07
Chemical :	DCA11 (1,1-Dichloroethane (1,1 DCA)) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	.5

Samp Collection Date :	1989-12-07
Chemical :	DCMA (Dichloromethane (Methylene Chloride)) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	.5

Samp Collection Date :	1989-12-07
Chemical :	EBZ (Ethylbenzene) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	.5

Samp Collection Date :	1989-12-07
Chemical :	DCBZ12 (1,2 Dichlorobenzene (1,2-DCB)) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	.5

Map Id: 41
Direction: NNE
Distance: 0.051 mi., 272 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 1010021-001
36.766667, -120.366667
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 23660833
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1989-12-07
Chemical :	BTBZN (n-Butylbenzene) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	.5

Samp Collection Date :	1989-12-07
Chemical :	BDCME (Bromodichloromethane (THM)) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1989-12-07
Chemical :	BZME (Toluene) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	.5

Samp Collection Date :	1989-12-07
Chemical :	HCBU (Hexachlorobutadiene) < 0 UG/L
CAS Number :	N/R
Reporting Limit :	.5

Source Details

Datum :	N/R
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.766667
Longitude :	-120.366667

Source Chemicals

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	34516 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	.5
Lab Note :	N/R

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	38761 < .01 UG/L
Analytical Method :	N/R
Reporting Limit :	.01
Lab Note :	N/R

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	34496 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	.5
Lab Note :	N/R

Map Id: 41
Direction: NNE
Distance: 0.051 mi., 272 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 1010021-001
36.766667, -120.366667
CA

Database(s) : [WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 23660833
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	34423 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	.5
Lab Note :	N/R

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	34371 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	.5
Lab Note :	N/R

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	34536 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	.5
Lab Note :	N/R

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	A-010 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	.5
Lab Note :	N/R

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	32101 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	34010 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	.5
Lab Note :	N/R

Samp Collection Date-Time :	1989-12-07 1325
Chemical :	34391 < 0 UG/L
Analytical Method :	N/R
Reporting Limit :	.5
Lab Note :	N/R

Map Id: I42
Direction: S
Distance: 0.065 mi., 346 ft.
Elevation: 197 ft.
Relative: Higher

Site Name : 363736120231101
36.626617, -120.387386
CA

Database(s) : [NWIS]

Envirosite ID: 9228089
EPA ID: N/R

NWIS

Site Identification Number :	363736120231101
Site Type :	Well
Station Name :	015S015E18E002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWNWS18 T15S R15E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	194.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1955-07-01
Date Site Established or Inventoried:	1956-07-13
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1121
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1964-12-01
Field Water-level Measurements End Date:	1964-12-01
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.626617
Longitude :	-120.387386
Last Date in Agency List :	2022-03-04

Map Id: G43
Direction: S
Distance: 0.106 mi., 563 ft.
Elevation: 197 ft.
Relative: Higher

Site Name : USGS-363759120230801 | 363759120230801
36.633006, -120.386553
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9231718
EPA ID: N/R

NWIS

Site Identification Number :	363759120230801
Site Type :	Well
Station Name :	015S014E09R002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NNNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1984-05-10
Water-Quality Data End Date :	1984-05-10
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.633006
Longitude :	-120.386553
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363759120230801

Map Id: G43
Direction: S
Distance: 0.106 mi., 563 ft.
Elevation: 197 ft.
Relative: Higher

Site Name : USGS-363759120230801 | 363759120230801
36.633006, -120.386553
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9231718
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363759120230801
Other Names :	N/R
Latitude :	36.633006
Longitude :	-120.3865528
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1984-05-10
Chemical :	FE (Iron) = 170000 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-05-10
Chemical :	SC (Specific Conductivity) = 19900 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-05-10
Chemical :	AS (Arsenic) = 1 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-05-10
Chemical :	MO (Molybdenum) = 160 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-05-10
Chemical :	PB (Lead) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	100

Samp Collection Date :	1984-05-10
Chemical :	LI (Lithium) = 150 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: G43
Direction: S
Distance: 0.106 mi., 563 ft.
Elevation: 197 ft.
Relative: Higher

Site Name : USGS-363759120230801 | 363759120230801
36.633006, -120.386553
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9231718
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1984-05-10
Chemical :	TEMP (Temperature) = 19 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	CA (Calcium) = 520 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	NA (Sodium) = 4600 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-05-10
Chemical :	K (Potassium) = 4.7 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.633006
Longitude :	-120.3865528

Source Chemicals

Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Iron 170000
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Specific conductance 19900
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Arsenic 1
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: G43
Direction: S
Distance: 0.106 mi., 563 ft.
Elevation: 197 ft.
Relative: Higher

Site Name : USGS-363759120230801 | 363759120230801
36.633006, -120.386553
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9231718
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Molybdenum 160
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Lead Detected Not Quantified ug/l
Analytical Method :	N/R
Reporting Limit :	100
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Lithium 150
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Temperature, water 19.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Calcium 520
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Sodium 4600
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-05-10 13:30:00
Chemical :	Potassium 4.70
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 44
Direction: NNE
Distance: 0.202 mi., 1068 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 0401906007
36.763245, -120.367958
CA

Database(s) : [OIL & GAS WELLS - CA]

Envirosite ID: 10202855
EPA ID: N/R

OIL & GAS WELLS - CA

Spud Date :	1958-05-13
API Number :	0401906007
Well Status :	Plugged
Well Type :	Dry Hole
Operator Code :	02218
Operator Name :	Donco Co.
Lease Name :	Matheson
Field Name :	Any Field
Area Name :	Any Area
District :	Inland
County :	Fresno
Section/Township/Range :	SEC 32, TWP 13S, RNG 15E
Base Meridian :	Mount Diablo
GIS Source :	hud
Confidential Well :	No
Directionallly Drilled :	No
Latitude :	36.763245
Longitude :	-120.367958
Last Date in Agency List :	2022-04-04

Map Id: 45
Direction: SSW
Distance: 0.225 mi., 1187 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : 363731120243401
36.625228, -120.410442
CA

Database(s) : [NWIS]

Envirosite ID: 9217584
EPA ID: N/R

NWIS

Site Identification Number :	363731120243401
Site Type :	Well
Station Name :	015S014E14H001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	209.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1957-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R

Map Id: 45
Direction: SSW
Distance: 0.225 mi., 1187 ft.
Elevation: 212 ft.
Relative: Higher

Site Name : 363731120243401
36.625228, -120.410442
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9217584
EPA ID: N/R

NWIS ***(cont.)***

Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	900
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1961-05-01
Field Water-level Measurements End Date:	1961-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.625228
Longitude :	-120.410442
Last Date in Agency List :	2022-03-04

Map Id: 46
Direction: SSW
Distance: 0.246 mi., 1301 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363704120250801 |
363704120250801
36.617728, -120.419887
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9216340
EPA ID: N/R

NWIS

Site Identification Number :	363704120250801
Site Type :	Well
Station Name :	015S014E23C001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	213.00
Method Altitude Determined :	Interpolated from topographic map.

Map Id: 46
Direction: SSW
Distance: 0.246 mi., 1301 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363704120250801 | 363704120250801
36.617728, -120.419887
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9216340
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1947-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1278
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1951-08-14
Water-Quality Data End Date :	1951-08-14
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1956-06-01
Field Water-level Measurements End Date:	1956-06-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.617728
Longitude :	-120.419887
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363704120250801
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	1278.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363704120250801
Other Names :	N/R
Latitude :	36.6177282
Longitude :	-120.4198868
Last Date in Agency List :	2022-02-22

Map Id: 46
Direction: SSW
Distance: 0.246 mi., 1301 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363704120250801 | 363704120250801
36.617728, -120.419887
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9216340
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Samp Collection Date : 1951-08-14
Chemical : SO4 (Sulfate) = 600 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : TEMP (Temperature) = 25 CELSIUS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : PH (pH) = 7.3 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : TDS (Total Dissolved Solids) = 1100 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : SC (Specific Conductivity) = 1610 UMHOS/CM
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : NA (Sodium) = 200 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : TDS (Total Dissolved Solids) = MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : HCO3 (bicarbonate HCO3) = 220 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1951-08-14
Chemical : B (Boron) = 1.5 MG/L
CAS Number : N/R
Reporting Limit : N/R

Map Id: 46
Direction: SSW
Distance: 0.246 mi., 1301 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363704120250801 | 363704120250801
36.617728, -120.419887
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9216340
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 45 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	1278
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6177282
Longitude :	-120.4198868

Source Chemicals

Samp Collection Date-Time :	1951-08-14
Chemical :	Sulfate 600
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Temperature, water 25.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	pH 7.3
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 1100
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Specific conductance 1610
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Sodium 200
Analytical Method :	N/R

Map Id: 46
Direction: SSW
Distance: 0.246 mi., 1301 ft.
Elevation: 216 ft.
Relative: Higher

Site Name : USGS-363704120250801 | 363704120250801
36.617728, -120.419887
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9216340
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 1.50
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Bicarbonate 220
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Boron 1500
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Chloride 45.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 47
Direction: SSW
Distance: 0.261 mi., 1381 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : 363956120241701
36.665506, -120.405721
CA

Database(s) : [NWIS]

Envirosite ID: 9216876
EPA ID: N/R

NWIS

Site Identification Number :	363956120241701
Site Type :	Well
Station Name :	014S014E36N001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWNWSWS36 T14S R14E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000

Map Id: 47
Direction: SSW
Distance: 0.261 mi., 1381 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : 363956120241701
36.665506, -120.405721
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9216876
EPA ID: N/R

NWIS ***(cont.)***

Altitude of Gage/Land Surface :	206.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1947-01-01
Date Site Established or Inventoried:	1950-07-22
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1299
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1960-05-01
Field Water-level Measurements End Date:	1960-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.665506
Longitude :	-120.405721
Last Date in Agency List :	2022-03-04

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9210530
EPA ID: N/R

NWIS

Site Identification Number :	364613120223502

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210530
EPA ID: N/R

NWIS ***(cont.)***

Site Type :	Well
Station Name :	SLD @ MI 127.0
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NNNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1984-08-08
Water-Quality Data End Date :	1984-08-08
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.770227
Longitude :	-120.377391
Last Date in Agency List :	2022-03-04

Site Identification Number :	364613120223501
Site Type :	Well
Station Name :	SLD COLLECTOR @ MI 127.0
Agency :	U.S. Geological Survey

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210530
EPA ID: N/R

NWIS ***(cont.)***

District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NNNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1984-01-24
Water-Quality Data End Date :	1984-08-08
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.770227
Longitude :	-120.377391
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364613120223502
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210530
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364613120223502
Other Names :	N/R
Latitude :	36.7702275
Longitude :	-120.377391
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1984-08-08
Chemical :	TDS (Total Dissolved Solids) = 9310 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-08
Chemical :	V (Vanadium) = 38 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-08
Chemical :	CA (Calcium) = 490 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-08
Chemical :	F (Fluoride) = .2 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-08
Chemical :	SE (Selenium) = 380 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-08
Chemical :	MN (Manganese) = 60 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1984-08-08
Chemical :	NH3NH4N (Ammonia) = .193 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210530
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1984-08-08
Chemical :	AL (Aluminum) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10
Samp Collection Date :	1984-08-08
Chemical :	NO3N (Nitrate as N) = 57.6 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-08
Chemical :	MO (Molybdenum) = 87 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7702275
Longitude :	-120.377391

Source Chemicals

Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Total dissolved solids 9310
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Vanadium 38.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Calcium 490
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Fluoride 0.20
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210530
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Selenium 380
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Manganese 60
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Ammonia and ammonium 0.193
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Aluminum Not Detected ug/l
Analytical Method :	N/R
Reporting Limit :	10
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Nitrate 57.6
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1984-08-08 15:00:00
Chemical :	Molybdenum 87
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364613120223501
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364613120223501
Other Names :	N/R
Latitude :	36.7702275
Longitude :	-120.377391
Last Date in Agency List :	2022-02-22

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210530
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Samp Collection Date :	1984-08-08
Chemical :	MG (Magnesium) = 300 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-08
Chemical :	K (Potassium) = 4.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-08
Chemical :	CA (Calcium) = 580 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-08
Chemical :	SE (Selenium) = 220 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-08
Chemical :	BE (Beryllium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10
Samp Collection Date :	1984-08-08
Chemical :	V (Vanadium) = 47 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-08
Chemical :	CR (Chromium) = 30 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-08
Chemical :	MO (Molybdenum) = 42 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1984-08-08
Chemical :	NO3N (Nitrate as N) = 63 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210530
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1984-08-08
Chemical :	NH3NH4N (Ammonia) = .206 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7702275
Longitude :	-120.377391

Source Chemicals

Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Magnesium 300
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Potassium 4.80
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Calcium 580
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Selenium 220
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Beryllium Not Detected ug/l
Analytical Method :	N/R
Reporting Limit :	10
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Vanadium 47.0
Analytical Method :	N/R

Map Id: J48
Direction: N
Distance: 0.391 mi., 2064 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : USGS-364613120223501 | USGS-364613120223502 | 364613120223501
36.770227, -120.377391
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210530
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Chromium 30
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Molybdenum 42
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Nitrate 63.0
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1984-08-08 14:30:00
Chemical :	Ammonia and ammonium 0.206
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: J49
Direction: N
Distance: 0.399 mi., 2109 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364618120223301
36.771616, -120.376835
CA

Database(s) : [NWIS]

Envirosite ID: 31373103
EPA ID: N/R

NWIS

Site Identification Number :	364618120223301
Site Type :	Well
Station Name :	013S015E30G001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SESWNES30 T13S R15E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000

Map Id: J49
Direction: N
Distance: 0.399 mi., 2109 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364618120223301
36.771616, -120.376835
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 31373103
EPA ID: N/R

NWIS ***(cont.)***

Altitude of Gage/Land Surface :	159.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1956-11-01
Date Site Established or Inventoried:	1958-06-11
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	80.0
Hole Depth :	80
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.771616
Longitude :	-120.376835
Last Date in Agency List :	2022-03-04

Map Id: 50
Direction: S
Distance: 0.416 mi., 2196 ft.
Elevation: 199 ft.
Relative: Higher

Site Name : 363630120231401
36.608284, -120.388219
CA

Database(s) : [NWIS]

Envirosite ID: 9216271
EPA ID: N/R

NWIS

Site Identification Number :	363630120231401
Site Type :	Well

Map Id: 50
Direction: S
Distance: 0.416 mi., 2196 ft.
Elevation: 199 ft.
Relative: Higher

Site Name : 363630120231401
36.608284, -120.388219
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9216271
EPA ID: N/R

NWIS ***(cont.)***

Station Name :	015S015E19M001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWNWSWS19 T15S R15E M
Name of Location Map :	LEVIS
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	197.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1951-08-09
Date Site Established or Inventoried:	1951-09-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1046
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1961-05-01
Field Water-level Measurements End Date:	1961-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.608284
Longitude :	-120.388219
Last Date in Agency List :	2022-03-04

Map Id: 51
Direction: SSE
Distance: 0.461 mi., 2434 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : USGS-363758120224501 | 363758120224501
36.632728, -120.380164
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9228138
EPA ID: N/R

NWIS

Site Identification Number :	363758120224501
Site Type :	Well
Station Name :	015S015E07P001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	190.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1958-08-15
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	Alluvium Above E-Clay
Local Aquifer Type :	N/R
Well Depth :	500
Hole Depth :	500
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1968-07-17
Water-Quality Data End Date :	1968-07-17
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.632728
Longitude :	-120.380164
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363758120224501

Map Id: 51
Direction: SSE
Distance: 0.461 mi., 2434 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : USGS-363758120224501 | 363758120224501
36.632728, -120.380164
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228138
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	500.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363758120224501
Other Names :	N/R
Latitude :	36.6327282
Longitude :	-120.3801636
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1968-07-17
Chemical :	NA (Sodium) = 160 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	CL (Chloride) = 33 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	TEMP (Temperature) = 30 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	NO3N (Nitrate as N) = .181 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	PH (pH) = 7.4 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	MG (Magnesium) = 14 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 51
Direction: SSE
Distance: 0.461 mi., 2434 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : USGS-363758120224501 | 363758120224501
36.632728, -120.380164
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228138
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1968-07-17
Chemical :	TDS (Total Dissolved Solids) = 576 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	CA (Calcium) = 28 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	SC (Specific Conductivity) = 937 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	500
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6327282
Longitude :	-120.3801636

Source Chemicals

Samp Collection Date-Time :	1968-07-17
Chemical :	Sodium 160
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Chloride 33.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Temperature, water 30.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 51
Direction: SSE
Distance: 0.461 mi., 2434 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : USGS-363758120224501 | 363758120224501
36.632728, -120.380164
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228138
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1968-07-17
Chemical :	Nitrate 0.181
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	pH 7.4
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Magnesium 14.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Total dissolved solids 576
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Calcium 28.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Total dissolved solids 0.78
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Specific conductance 937
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 52
Direction: S
Distance: 0.476 mi., 2512 ft.
Elevation: 208 ft.
Relative: Higher

Site Name : 363614120241801
36.603839, -120.405997
CA

Database(s) : [NWIS]

Envirosite ID: 9216240
EPA ID: N/R

NWIS

Site Identification Number :	363614120241801
Site Type :	Well
Station Name :	015S014E24N001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	204.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1958-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	995
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1961-05-01
Field Water-level Measurements End Date:	1961-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.603839
Longitude :	-120.405997
Last Date in Agency List :	2022-03-04

Map Id: K53
Direction: SSW
Distance: 0.492 mi., 2600 ft.
Elevation: 219 ft.
Relative: Higher

Site Name : 363702120252401 | 363702120252402
36.617173, -120.424331
CA

Database(s) : [NWIS]

Envirosite ID: 9196500
EPA ID: N/R

NWIS

Site Identification Number :	363702120252401
Site Type :	Well
Station Name :	015S014E23D002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	217.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1947-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	600
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1961-05-01
Field Water-level Measurements End Date:	1961-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.617173
Longitude :	-120.424331
Last Date in Agency List :	2022-03-04

Site Identification Number :	363702120252402
Site Type :	Well
Station Name :	015S014E23D003M
Agency :	U.S. Geological Survey

Map Id: K53
Direction: SSW
Distance: 0.492 mi., 2600 ft.
Elevation: 219 ft.
Relative: Higher

Site Name : 363702120252401 | 363702120252402
36.617173, -120.424331
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9196500
EPA ID: N/R

NWIS ***(cont.)***

District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	217.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1954-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	805
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1959-05-01
Field Water-level Measurements End Date:	1959-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.617173
Longitude :	-120.424331
Last Date in Agency List :	2022-03-04

Map Id: K54
Direction: SSW
Distance: 0.493 mi., 2602 ft.
Elevation: 219 ft.
Relative: Higher

Site Name : 363704120252401
36.617728, -120.424331
CA

Database(s) : [NWIS]

Envirosite ID: 9253656
EPA ID: N/R

NWIS

Site Identification Number :	363704120252401
Site Type :	Well
Station Name :	015S014E23D001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	217.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1947-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	600
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.617728
Longitude :	-120.424331
Last Date in Agency List :	2022-03-04

Map Id: 55
Direction: SSE
Distance: 0.496 mi., 2620 ft.
Elevation: 189 ft.
Relative: Lower

Site Name : 363847120224201
36.646339, -120.379331
CA

Database(s) : [NWIS]

Envirosite ID: 9217802
EPA ID: N/R

NWIS

Site Identification Number :	363847120224201
Site Type :	Well
Station Name :	FARM DRAIN 136.0-2.9
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NNNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.646339
Longitude :	-120.379331
Last Date in Agency List :	2022-03-04

Map Id: L56
Direction: SW
Distance: 0.497 mi., 2622 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 363943120252201 | 363943120252202
36.661895, -120.423777
CA

Database(s) : [NWIS]

Envirosite ID: 31427861
EPA ID: N/R

NWIS

Site Identification Number :	363943120252202
Site Type :	Well
Station Name :	014S014E35N002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWSWS35 T14S R14E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	220.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1962-09-27
Date Site Established or Inventoried:	1968-05-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20.0
Hole Depth :	N/R
Source of Depth Data :	A
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1962-10-01
Field Water-level Measurements End Date:	1962-10-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.661895
Longitude :	-120.423777
Last Date in Agency List :	2022-03-04

Site Identification Number :	363943120252201
Site Type :	Well
Station Name :	014S014E35N001M
Agency :	U.S. Geological Survey

Map Id: L56
Direction: SW
Distance: 0.497 mi., 2622 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 363943120252201 | 363943120252202
36.661895, -120.423777
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 31427861
EPA ID: N/R

NWIS ***(cont.)***

District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWSWS35 T14S R14E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	222.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1957-09-01
Date Site Established or Inventoried:	1958-05-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1112
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1958-05-01
Field Water-level Measurements End Date:	1958-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.661895
Longitude :	-120.423777
Last Date in Agency List :	2022-03-04

Map Id: M57
Direction: SW
Distance: 0.504 mi., 2661 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 363849120252301
36.646895, -120.424055
CA

Database(s) : [NWIS]

Envirosite ID: 9222541
EPA ID: N/R

NWIS

Site Identification Number :	363849120252301
Site Type :	Well
Station Name :	015S014E11D002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	222.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	30.0
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1965-08-01
Field Water-level Measurements End Date:	1965-08-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.646895
Longitude :	-120.424055
Last Date in Agency List :	2022-03-04

Map Id: N58
Direction: N
Distance: 0.508 mi., 2684 ft.
Elevation: 163 ft.
Relative: Lower

Site Name : 364629120223001
36.774672, -120.376002
CA

Database(s) : [NWIS]

Envirosite ID: 9210568
EPA ID: N/R

NWIS

Site Identification Number :	364629120223001
Site Type :	Well
Station Name :	013S015E30B007M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWNWSES30 T13S R15E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	159.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1961-04-14
Date Site Established or Inventoried:	1968-06-11
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	172
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.774672
Longitude :	-120.376002
Last Date in Agency List :	2022-03-04

Map Id: M59
Direction: SW
Distance: 0.513 mi., 2709 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 363845120252301
36.645784, -120.424055
CA

Database(s) : [NWIS]

Envirosite ID: 9222504
EPA ID: N/R

NWIS

Site Identification Number :	363845120252301
Site Type :	Well
Station Name :	015S014E11D001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	222.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1948-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1000
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1961-05-01
Field Water-level Measurements End Date:	1961-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.645784
Longitude :	-120.424055
Last Date in Agency List :	2022-03-04

Map Id: M60
Direction: SW
Distance: 0.522 mi., 2758 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : USGS-363847120252401 | 363847120252401
36.646339, -120.424333
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9210119
EPA ID: N/R

NWIS

Site Identification Number :	363847120252401
Site Type :	Well
Station Name :	015S014E11D003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	221.0
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-04-02
Water-Quality Data End Date :	1986-04-02
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1986-04-02
Field Water-level Measurements End Date:	1986-04-02
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.646339
Longitude :	-120.424333
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363847120252401

Map Id: M60
Direction: SW
Distance: 0.522 mi., 2758 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : USGS-363847120252401 | 363847120252401
36.646339, -120.424333
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210119
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	20.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363847120252401
Other Names :	N/R
Latitude :	36.6463393
Longitude :	-120.4243325
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-04-02
Chemical :	SE (Selenium) = 550 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	AG (Silver) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1986-04-02
Chemical :	NA (Sodium) = 2000 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	TDS (Total Dissolved Solids) = 9680 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	V (Vanadium) = 7 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	K (Potassium) = 7 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: M60
Direction: SW
Distance: 0.522 mi., 2758 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : USGS-363847120252401 | 363847120252401
36.646339, -120.424333
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210119
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-04-02
Chemical :	MN (Manganese) = 80 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	HGE (HGE) ND
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	PB (Lead) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1986-04-02
Chemical :	F (Fluoride) = .3 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	20
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6463393
Longitude :	-120.4243325

Source Chemicals

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Selenium 550
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Silver Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 423
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Sodium 2000
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: M60
Direction: SW
Distance: 0.522 mi., 2758 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : USGS-363847120252401 | 363847120252401
36.646339, -120.424333
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210119
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Total dissolved solids 9680
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Vanadium 7.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Potassium 7.00
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Manganese 80
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Mercury Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	0.1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Lead Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 245
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 14:30:00
Chemical :	Fluoride 0.30
Analytical Method :	USGS TWRI 5-A1/1989, p 221
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: O61
Direction: NNE
Distance: 0.523 mi., 2761 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364634120221901
36.776061, -120.372947
CA

Database(s) : [NWIS]

Envirosite ID: 9223351
EPA ID: N/R

NWIS

Site Identification Number :	364634120221901
Site Type :	Collector or Ranney type well
Station Name :	SUMP 013S015E30-1 M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	162
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1984-05-10
Water-Quality Data End Date :	1984-05-10
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.776061
Longitude :	-120.372947
Last Date in Agency List :	2022-03-04

Map Id: 62
Direction: SW
Distance: 0.525 mi., 2773 ft.
Elevation: 226 ft.
Relative: Higher

Site Name : USGS-363929120252401 | 363929120252401
36.658006, -120.424333
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9218007
EPA ID: N/R

NWIS

Site Identification Number :	363929120252401
Site Type :	Well
Station Name :	015S014E03H001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	223.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1960-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	Alluvium Above and Below E-Clay (Miocene-Pleistocene)
Local Aquifer Type :	N/R
Well Depth :	1220
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1968-09-11
Water-Quality Data End Date :	1968-09-11
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1960-05-01
Field Water-level Measurements End Date:	1960-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.658006
Longitude :	-120.424333
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363929120252401

Map Id: 62
Direction: SW
Distance: 0.525 mi., 2773 ft.
Elevation: 226 ft.
Relative: Higher

Site Name : USGS-363929120252401 | 363929120252401
36.658006, -120.424333
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218007
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	1220.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363929120252401
Other Names :	N/R
Latitude :	36.658006
Longitude :	-120.4243329
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1968-09-11
Chemical :	TDS (Total Dissolved Solids) = 1440 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-09-11
Chemical :	CL (Chloride) = 230 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-09-11
Chemical :	SO4 (Sulfate) = 620 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-09-11
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-09-11
Chemical :	TEMP (Temperature) = 26 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-09-11
Chemical :	NO3N (Nitrate as N) = .203 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 62
Direction: SW
Distance: 0.525 mi., 2773 ft.
Elevation: 226 ft.
Relative: Higher

Site Name : USGS-363929120252401 | 363929120252401
36.658006, -120.424333
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218007
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1968-09-11
Chemical :	HCO3 (bicarbonate HCO3) = 250 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1968-09-11
Chemical :	B (Boron) = 1.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1968-09-11
Chemical :	SC (Specific Conductivity) = 2200 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1968-09-11
Chemical :	PH (pH) = 7.6 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	1220
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.658006
Longitude :	-120.4243329

Source Chemicals

Samp Collection Date-Time :	1968-09-11
Chemical :	Total dissolved solids 1440
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-09-11
Chemical :	Chloride 230
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-09-11
Chemical :	Sulfate 620
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 62
Direction: SW
Distance: 0.525 mi., 2773 ft.
Elevation: 226 ft.
Relative: Higher

Site Name : USGS-363929120252401 | 363929120252401
36.658006, -120.424333
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218007
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1968-09-11
Chemical :	Total dissolved solids 1.96
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-09-11
Chemical :	Temperature, water 26.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-09-11
Chemical :	Nitrate 0.203
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-09-11
Chemical :	Bicarbonate 250
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-09-11
Chemical :	Boron 1800
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-09-11
Chemical :	Specific conductance 2200
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-09-11
Chemical :	pH 7.6
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: M63
Direction: SW
Distance: 0.538 mi., 2839 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 363847120252501
36.646339, -120.42461
CA

Database(s) : [NWIS]

Envirosite ID: 9224846
EPA ID: N/R

NWIS

Site Identification Number :	363847120252501
Site Type :	Well
Station Name :	015S014E10A009M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	223
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-07-19
Date Site Established or Inventoried:	1986-07-19
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	565
Hole Depth :	604
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.646339
Longitude :	-120.42461
Last Date in Agency List :	2022-03-04

Map Id: O64
Direction: NNE
Distance: 0.551 mi., 2912 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-02 | USGS-364632120223403 | 364632120223403
36.776319, -120.373689
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9508781
EPA ID: N/R

NWIS

Site Identification Number :	364632120223403
Site Type :	Well
Station Name :	013S015E30B004M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWNES30 T13S R15E M
Name of Location Map :	MENDOTA DAM, CA
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	163
Method Altitude Determined :	Interpolated from Digital Elevation Model
Altitude Accuracy :	5.4
Altitude Datum :	North American Vertical Datum of 1988
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1964-09-30
Date Site Established or Inventoried:	1968-06-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	250
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	2010-03-01
Water-Quality Data End Date :	2010-03-01
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.776319
Longitude :	-120.373689
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	DM-02

Map Id: O64
Direction: NNE
Distance: 0.551 mi., 2912 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-02 | USGS-364632120223403 | 364632120223403
36.776319, -120.373689
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9508781
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	MUNICIPAL
Well Depth (Ft.) :	250.0
Top of Screen (Ft.) :	140.0
Screen Length (Ft.) :	250.0
Source :	N/R
Data Source :	USGS
Source Name :	DM-02
Other Names :	N/R
Latitude :	36.77631944
Longitude :	-120.37368889
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	2010-03-01
Chemical :	NI (Nickel) .75 UG/L
CAS Number :	7440-02-0
Reporting Limit :	.12

Samp Collection Date :	2010-03-01
Chemical :	BA (Barium) .0551 MG/L
CAS Number :	7440-39-3
Reporting Limit :	.00014

Samp Collection Date :	2010-03-01
Chemical :	PBZN (n-Propylbenzene (Isocumene)) < .036 UG/L
CAS Number :	103-65-1
Reporting Limit :	.036

Samp Collection Date :	2010-03-01
Chemical :	AL (Aluminum) < 3.4 UG/L
CAS Number :	7429-90-5
Reporting Limit :	3.4

Samp Collection Date :	2010-03-01
Chemical :	TEMP (Temperature) 19 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	2010-03-01
Chemical :	DCBZ12 (1,2 Dichlorobenzene (1,2-DCB)) < .028 UG/L
CAS Number :	95-50-1
Reporting Limit :	.028

Map Id: O64
Direction: NNE
Distance: 0.551 mi., 2912 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-02 | USGS-364632120223403 | 364632120223403
36.776319, -120.373689
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9508781
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	2010-03-01
Chemical :	K (Potassium) 5.12 MG/L
CAS Number :	7440-09-7
Reporting Limit :	.064
Samp Collection Date :	2010-03-01
Chemical :	BRME (Methyl Bromide (Bromomethane)) < .2 UG/L
CAS Number :	74-83-9
Reporting Limit :	.2
Samp Collection Date :	2010-03-01
Chemical :	W (Tungsten) 3.48 UG/L
CAS Number :	7440-33-7
Reporting Limit :	.02
Samp Collection Date :	2010-03-01
Chemical :	CDS (Carbon Disulfide) < .04 UG/L
CAS Number :	75-15-0
Reporting Limit :	.04

Source Details

Datum :	N/R
Well Depth (Ft.) :	250
Top of Screen (Ft.) :	140
Screen Length (Ft.) :	250
Latitude :	36.77631944
Longitude :	-120.37368889

Source Chemicals

Samp Collection Date-Time :	2010-03-01 1530
Chemical :	Chromium, wf < 1 ug/l
Analytical Method :	GF075
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	2010-03-01 1530
Chemical :	Perchlorate, wf < .1 ug/l
Analytical Method :	MS050
Reporting Limit :	.1
Lab Note :	N/R
Samp Collection Date-Time :	2010-03-01 1530
Chemical :	N-Nitrosodimethylamine, wu < .002 ug/l
Analytical Method :	MS046
Reporting Limit :	.002
Lab Note :	N/R

Map Id: O64
Direction: NNE
Distance: 0.551 mi., 2912 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-02 | USGS-364632120223403 | 364632120223403
36.776319, -120.373689
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9508781
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	2010-03-01 1530
Chemical :	1,2,3-Trichloropropane, wu < .005 ug/l
Analytical Method :	MS047
Reporting Limit :	.005
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 1520
Chemical :	Nickel, wf .75 ug/l
Analytical Method :	PLM10
Reporting Limit :	.12
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 1520
Chemical :	Barium, wf 55.1 ug/l
Analytical Method :	PLM43
Reporting Limit :	.14
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 1520
Chemical :	n-Propylbenzene, wu < .036 ug/l
Analytical Method :	GCM66
Reporting Limit :	.036
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 1520
Chemical :	Aluminum, wf < 3.4 ug/l
Analytical Method :	PLM43
Reporting Limit :	3.4
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 1520
Chemical :	Temperature, water 19 deg C
Analytical Method :	THM01
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 1520
Chemical :	1,2-Dichlorobenzene, wu < .028 ug/l
Analytical Method :	GCM66
Reporting Limit :	.028
Lab Note :	N/R

Well Details

Well ID :	USGS-364632120223403
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R

Map Id: O64
Direction: NNE
Distance: 0.551 mi., 2912 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-02 | USGS-364632120223403 | 364632120223403
36.776319, -120.373689
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9508781
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364632120223403
Other Names :	N/R
Latitude :	36.7763194
Longitude :	-120.3736889
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	2010-03-01
Chemical :	AS (Arsenic) = .19 UG/L
CAS Number :	N/R
Reporting Limit :	.044

Samp Collection Date :	2010-03-01
Chemical :	CL (Chloride) = 320 MG/L
CAS Number :	N/R
Reporting Limit :	.12

Samp Collection Date :	2010-03-01
Chemical :	FE (Iron) = 524 UG/L
CAS Number :	N/R
Reporting Limit :	6

Samp Collection Date :	2010-03-01
Chemical :	CTCL (Carbon Tetrachloride) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.052

Samp Collection Date :	2010-03-01
Chemical :	DIAZ (Diazinon) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.005

Samp Collection Date :	2010-03-01
Chemical :	BZME (Toluene) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.018

Samp Collection Date :	2010-03-01
Chemical :	METOCHLOR (Metolachlor) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.014

Samp Collection Date :	2010-03-01
Chemical :	ENDOSULFANS (Endosulfan Sulfate) ND 0 UG/L
CAS Number :	N/R

Map Id: O64
Direction: NNE
Distance: 0.551 mi., 2912 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-02 | USGS-364632120223403 | 364632120223403
36.776319, -120.373689
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9508781
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit : .014

Samp Collection Date : 2010-03-01
Chemical : DCMA (Dichloromethane (Methylene Chloride)) ND 0 UG/L
CAS Number : N/R
Reporting Limit : .038

Samp Collection Date : 2010-03-01
Chemical : PCA (1,1,2,2 Tetrachloroethane (PCA)) ND 0 UG/L
CAS Number : N/R
Reporting Limit : .14

Source Details
Datum : NAD83
Well Depth (Ft.) : N/R
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.7763194
Longitude : -120.3736889

Source Chemicals
Samp Collection Date-Time : 2010-03-01 15:30:00
Chemical : N-Nitrosodimethylamine Not Detected ug/l
Analytical Method : N/R
Reporting Limit : 0.0020
Lab Note : N/R

Samp Collection Date-Time : 2010-03-01 15:30:00
Chemical : 1,2,3-Trichloropropane Not Detected ug/l
Analytical Method : N/R
Reporting Limit : 0.0050
Lab Note : N/R

Samp Collection Date-Time : 2010-03-01 15:30:00
Chemical : Chromium Not Detected ug/l
Analytical Method : USGS OF 93-449
Reporting Limit : 1
Lab Note : N/R

Samp Collection Date-Time : 2010-03-01 15:30:00
Chemical : Perchlorate Not Detected ug/l
Analytical Method : N/R
Reporting Limit : 0.10
Lab Note : N/R

Map Id: O64
Direction: NNE
Distance: 0.551 mi., 2912 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-02 | USGS-364632120223403 | 364632120223403
36.776319, -120.373689
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9508781
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	2010-03-01 15:20:00
Chemical :	Arsenic 0.19 ug/l
Analytical Method :	USGS TMR 5-B1
Reporting Limit :	0.044
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 15:20:00
Chemical :	Chloride 320 mg/l
Analytical Method :	Standard Methods (22d ed), 2012, p 4-5 - 4-7
Reporting Limit :	0.12
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 15:20:00
Chemical :	Iron 524 ug/l
Analytical Method :	USGS OF 93-125, p 101
Reporting Limit :	6
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 15:20:00
Chemical :	Carbon tetrachloride Not Detected ug/l
Analytical Method :	USGS OF 97-829
Reporting Limit :	0.052
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 15:20:00
Chemical :	Diazinon Not Detected ug/l
Analytical Method :	USGS OF 95-181
Reporting Limit :	0.005
Lab Note :	N/R

Samp Collection Date-Time :	2010-03-01 15:20:00
Chemical :	Toluene Not Detected ug/l
Analytical Method :	USGS OF 97-829
Reporting Limit :	0.018
Lab Note :	N/R

Map Id: M65
Direction: SW
Distance: 0.553 mi., 2920 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 363847120252601 | 363847120252602 | 363847120252603
36.646339, -120.424888
CA

Database(s) : [NWIS]

Envirosite ID: 9206141
EPA ID: N/R

NWIS

Site Identification Number :	363847120252601
Site Type :	Well
Station Name :	015S014E10A001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	222
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.646339
Longitude :	-120.424888
Last Date in Agency List :	2022-03-04

Site Identification Number :	363847120252604
Site Type :	Well
Station Name :	015S014E10A004M

Map Id: M65
Direction: SW
Distance: 0.553 mi., 2920 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 363847120252601 | 363847120252602 | 363847120252603
36.646339, -120.424888
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9206141
EPA ID: N/R

NWIS ***(cont.)***

Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	222
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	50
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.646339
Longitude :	-120.424888
Last Date in Agency List :	2022-03-04

Site Identification Number :	363847120252603
Site Type :	Well
Station Name :	015S014E10A003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA

Map Id: M65
Direction: SW
Distance: 0.553 mi., 2920 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 363847120252601 | 363847120252602 | 363847120252603
36.646339, -120.424888
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9206141
EPA ID: N/R

NWIS ***(cont.)***

County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	222
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	40
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.646339
Longitude :	-120.424888
Last Date in Agency List :	2022-03-04

Site Identification Number :	363847120252605
Site Type :	Well
Station Name :	015S014E10A005M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R

Map Id: M65
Direction: SW
Distance: 0.553 mi., 2920 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 363847120252601 | 363847120252602 | 363847120252603
36.646339, -120.424888
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9206141
EPA ID: N/R

NWIS ***(cont.)***

Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	222
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	57
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.646339
Longitude :	-120.424888
Last Date in Agency List :	2022-03-04

Site Identification Number :	363847120252602
Site Type :	Well
Station Name :	015S014E10A002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	222

Map Id: M65
Direction: SW
Distance: 0.553 mi., 2920 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 363847120252601 | 363847120252602 | 363847120252603
36.646339, -120.424888
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9206141
EPA ID: N/R

NWIS ***(cont.)***

Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNANNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	198507
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	30
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.646339
Longitude :	-120.424888
Last Date in Agency List :	2022-03-04

Map Id: L66
Direction: SW
Distance: 0.558 mi., 2945 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363940120252601 | 363940120252601
36.661062, -120.424889
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9218085
EPA ID: N/R

NWIS

Site Identification Number :	363940120252601

Map Id: L66
Direction: SW
Distance: 0.558 mi., 2945 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363940120252601 | 363940120252601
36.661062, -120.424889
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218085
EPA ID: N/R

NWIS ***(cont.)***

Site Type :	Well
Station Name :	015S014E03A001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	222.0
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-04-01
Water-Quality Data End Date :	1986-04-01
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1986-04-01
Field Water-level Measurements End Date:	1986-04-01
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.661062
Longitude :	-120.424889
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363940120252601
Well Type :	WATER SUPPLY, OTHER

Map Id: L66
Direction: SW
Distance: 0.558 mi., 2945 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363940120252601 | 363940120252601
36.661062, -120.424889
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218085
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Depth (Ft.) :	20.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363940120252601
Other Names :	N/R
Latitude :	36.6610615
Longitude :	-120.4248886
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-04-01
Chemical :	TOCH (Total Organic Carbon) = 7.2 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	MO (Molybdenum) = 9 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	NO3N (Nitrate as N) = 9 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	ZN (Zinc) = .02 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	SC (Specific Conductivity) = 7400 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-01
Chemical :	TEMP (Temperature) = 18 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: L66
Direction: SW
Distance: 0.558 mi., 2945 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363940120252601 | 363940120252601
36.661062, -120.424889
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218085
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-04-01
Chemical :	CR (Chromium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1986-04-01
Chemical :	NO2 (Nitrite as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.01
Samp Collection Date :	1986-04-01
Chemical :	SE (Selenium) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-01
Chemical :	HG (Mercury) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.1

Source Details

Datum :	NAD83
Well Depth (Ft.) :	20
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6610615
Longitude :	-120.4248886

Source Chemicals

Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Organic carbon 7.2
Analytical Method :	USGS OF 92-480
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Molybdenum 9
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Nitrate 9.00
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: L66
Direction: SW
Distance: 0.558 mi., 2945 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363940120252601 | 363940120252601
36.661062, -120.424889
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9218085
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Zinc 20
Analytical Method :	USGS TWRI 5-A1/1989, p 507
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Specific conductance 7400
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Temperature, water 18.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Chromium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 163
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Nitrite Not Detected mg/l as N
Analytical Method :	USGS OF 93-125, p 143
Reporting Limit :	0.010
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Selenium 2
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-01 08:45:00
Chemical :	Mercury Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	0.1
Lab Note :	N/R

Map Id: M67
Direction: SW
Distance: 0.562 mi., 2968 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252606 | 363847120252606 36.645506, -120.424888 CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9206142
EPA ID: N/R

NWIS

Site Identification Number :	363847120252606
Site Type :	Well
Station Name :	015S014E10A007M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	223
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Alluvial fan
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-04-09
Date Site Established or Inventoried:	1986-04-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	104
Hole Depth :	104
Source of Depth Data :	S
Project Number :	470645672
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-08-27
Water-Quality Data End Date :	1988-08-24
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	1986-04-09
Field Water-level Measurements End Date:	1990-02-28
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.645506
Longitude :	-120.424888
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363847120252606

Map Id: M67
Direction: SW
Distance: 0.562 mi., 2968 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252606 | 363847120252606
36.645506, -120.424888
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206142
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	104.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363847120252606
Other Names :	N/R
Latitude :	36.645506
Longitude :	-120.424888
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1988-08-24
Chemical :	TEMP (Temperature) = 22 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-24
Chemical :	MG (Magnesium) = 230 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-24
Chemical :	TDS (Total Dissolved Solids) = 4270 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-24
Chemical :	K (Potassium) = 2.5 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-24
Chemical :	NO2 (Nitrite as N) = .04 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-24
Chemical :	AG (Silver) = 1 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: M67
Direction: SW
Distance: 0.562 mi., 2968 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252606 | 363847120252606
36.645506, -120.424888
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206142
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-08-24
Chemical :	SE (Selenium) = 120 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-08-24
Chemical :	BR (Bromide) = 1.7 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-08-24
Chemical :	FE (Iron) = 30 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-08-24
Chemical :	HCO3 (bicarbonate HCO3) = 107 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	104
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.645506
Longitude :	-120.424888

Source Chemicals

Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Temperature, water 22.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Magnesium 230
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Total dissolved solids 4270
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: M67
Direction: SW
Distance: 0.562 mi., 2968 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252606 | 363847120252606
36.645506, -120.424888
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9206142
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Potassium 2.50
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Nitrite 0.040
Analytical Method :	USGS OF 93-125, p 143
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Silver 1
Analytical Method :	USGS TWRI 5-A1/1989, p 423
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Selenium 120
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Bromide 1.70
Analytical Method :	USGS TWRI 5-A1/1989, p 121
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Iron 30
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-24 10:30:00
Chemical :	Bicarbonate 107
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 68
Direction: NNE
Distance: 0.573 mi., 3026 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364634120214001
36.776061, -120.362113
CA

Database(s) : [NWIS]

Envirosite ID: 9223103
EPA ID: N/R

NWIS

Site Identification Number :	364634120214001
Site Type :	Well
Station Name :	013S015E29C001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1971-10-08
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Unchecked data.
Data-Other GW Files :	YYNYNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	50.0
Hole Depth :	50.0
Source of Depth Data :	D
Project Number :	479435800
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.776061
Longitude :	-120.362113
Last Date in Agency List :	2022-03-04

Map Id: M69
Direction: SW
Distance: 0.577 mi., 3048 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252801 | 363847120252801
36.645506, -120.425166
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9217803
EPA ID: N/R

NWIS

Site Identification Number :	363847120252801
Site Type :	Well
Station Name :	015S014E10A008M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	223
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Alluvial fan
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-06-22
Date Site Established or Inventoried:	1986-06-22
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	380
Hole Depth :	380
Source of Depth Data :	S
Project Number :	470645672
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-05-13
Water-Quality Data End Date :	1988-08-19
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	1986-07-22
Field Water-level Measurements End Date:	1990-04-20
Field Water-Level Measurements Count:	15
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.645506
Longitude :	-120.425166
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363847120252801

Map Id: M69
Direction: SW
Distance: 0.577 mi., 3048 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252801 | 363847120252801
36.645506, -120.425166
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217803
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	380.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363847120252801
Other Names :	N/R
Latitude :	36.645506
Longitude :	-120.4251658
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1988-08-19
Chemical :	NI (Nickel) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-19
Chemical :	TDS (Total Dissolved Solids) = 1230 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-19
Chemical :	F (Fluoride) = .2 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-19
Chemical :	NO3N (Nitrate as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1988-08-19
Chemical :	C-14 (Carbon 14) = 7.8 PCT MODERN
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-19
Chemical :	SO4 (Sulfate) = 690 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: M69
Direction: SW
Distance: 0.577 mi., 3048 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252801 | 363847120252801
36.645506, -120.425166
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217803
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-08-19
Chemical :	MO (Molybdenum) = 12 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-08-19
Chemical :	K (Potassium) = 4.1 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-08-19
Chemical :	HGE (HGE) =
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-08-19
Chemical :	V (Vanadium) = 5 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	380
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.645506
Longitude :	-120.4251658

Source Chemicals

Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Nickel 2
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Total dissolved solids 1230
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Fluoride 0.20
Analytical Method :	USGS TWRI 5-A1/1989, p 221
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: M69
Direction: SW
Distance: 0.577 mi., 3048 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252801 | 363847120252801
36.645506, -120.425166
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9217803
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Nitrate Not Detected mg/l as N
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	0.100
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Carbon-14 7.800
Analytical Method :	USGS TWRI 5-A5/1977, p 17
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Sulfate 690
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Molybdenum 12
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Potassium 4.10
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Mercury 0.3
Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-19 13:00:00
Chemical :	Vanadium 5
Analytical Method :	USGS OF 93-125, p 211
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: O70
Direction: N
Distance: 0.583 mi., 3077 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364636120222401 | 364636120222401
36.776616, -120.374336
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9253847
EPA ID: N/R

NWIS

Site Identification Number :	364636120222401
Site Type :	Well
Station Name :	013S015E30B006M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWNWNES30 T13S R15E M
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	163.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1965-04-24
Date Site Established or Inventoried:	1968-06-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	Alluvium Above E-Clay
Local Aquifer Type :	N/R
Well Depth :	240
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1968-07-17
Water-Quality Data End Date :	1968-07-17
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.776616
Longitude :	-120.374336
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364636120222401

Map Id: O70
Direction: N
Distance: 0.583 mi., 3077 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364636120222401 | 364636120222401
36.776616, -120.374336
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9253847
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	240.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364636120222401
Other Names :	N/R
Latitude :	36.7766162
Longitude :	-120.3743355
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1968-07-17
Chemical :	CL (Chloride) = 58 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	PH (pH) = 8.1 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	TEMP (Temperature) = 19 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	TDS (Total Dissolved Solids) = 270 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	SO4 (Sulfate) = 24 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	MG (Magnesium) = 5.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: O70
Direction: N
Distance: 0.583 mi., 3077 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364636120222401 | 364636120222401
36.776616, -120.374336
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9253847
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1968-07-17
Chemical :	B (Boron) = .24 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1968-07-17
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1968-07-17
Chemical :	CA (Calcium) = 16 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1968-07-17
Chemical :	NA (Sodium) = 74 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	240
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7766162
Longitude :	-120.3743355

Source Chemicals

Samp Collection Date-Time :	1968-07-17
Chemical :	Chloride 58.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	pH 8.1
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Temperature, water 19.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: O70
Direction: N
Distance: 0.583 mi., 3077 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364636120222401 | 364636120222401
36.776616, -120.374336
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9253847
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1968-07-17
Chemical :	Total dissolved solids 270
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Sulfate 24.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Magnesium 5.80
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Boron 240
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Total dissolved solids 0.37
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Calcium 16.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1968-07-17
Chemical :	Sodium 74.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: N71
Direction: N
Distance: 0.591 mi., 3122 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364632120223401 | 364632120223402 | 364632120223404
36.775505, -120.377113
CA

Database(s) : [NWIS]

Envirosite ID: 9199290
EPA ID: N/R

NWIS

Site Identification Number :	364632120223404
Site Type :	Well
Station Name :	013S015E30B005M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1966-12-14
Date Site Established or Inventoried:	1968-06-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	270
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.775505
Longitude :	-120.377113
Last Date in Agency List :	2022-03-04

Site Identification Number :	364632120223402
Site Type :	Well
Station Name :	013S015E30B003M

Map Id: N71
Direction: N
Distance: 0.591 mi., 3122 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364632120223401 | 364632120223402 | 364632120223404
36.775505, -120.377113
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9199290
EPA ID: N/R

NWIS ***(cont.)***

Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1951-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	266
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.775505
Longitude :	-120.377113
Last Date in Agency List :	2022-03-04

Site Identification Number :	364632120223401
Site Type :	Well
Station Name :	013S015E30B001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA

Map Id: N71
Direction: N
Distance: 0.591 mi., 3122 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364632120223401 | 364632120223402 | 364632120223404
36.775505, -120.377113
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9199290
EPA ID: N/R

NWIS ***(cont.)***

County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1949-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	270
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.775505
Longitude :	-120.377113
Last Date in Agency List :	2022-03-04

Map Id: M72
Direction: SW
Distance: 0.592 mi., 3128 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252901 | USGS-363847120253307 | 363847120252901
36.645506, -120.425444
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9228253
EPA ID: N/R

NWIS

Site Identification Number :	363847120252901
Site Type :	Well
Station Name :	015S014E10A006M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	223
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Alluvial fan
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-04-09
Date Site Established or Inventoried:	1986-04-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	84
Hole Depth :	84
Source of Depth Data :	S
Project Number :	470645672
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-08-27
Water-Quality Data End Date :	1986-08-27
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1986-04-09
Field Water-level Measurements End Date:	1990-04-20
Field Water-Level Measurements Count:	5
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.645506
Longitude :	-120.425444
Last Date in Agency List :	2022-03-04

Site Identification Number :	363847120253307
Site Type :	Well
Station Name :	015S014E10A011M

Map Id: M72
Direction: SW
Distance: 0.592 mi., 3128 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252901 | USGS-363847120253307 | 363847120252901
36.645506, -120.425444
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228253
EPA ID: N/R

NWIS ***(cont.)***

Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	223
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Alluvial fan
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1988-05-19
Date Site Established or Inventoried:	1988-05-19
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	180
Hole Depth :	185
Source of Depth Data :	D
Project Number :	470642800
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1988-08-25
Water-Quality Data End Date :	1988-08-25
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1988-06-01
Field Water-level Measurements End Date:	1990-02-28
Field Water-Level Measurements Count:	5
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.645506
Longitude :	-120.425444
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363847120252901
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	84.0
Top of Screen (Ft.) :	N/R

Map Id: M72
Direction: SW
Distance: 0.592 mi., 3128 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252901 | USGS-363847120253307 | 363847120252901
36.645506, -120.425444
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228253
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363847120252901
Other Names :	N/R
Latitude :	36.645506
Longitude :	-120.4254436
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-08-27
Chemical :	SE (Selenium) = 1000 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-08-27
Chemical :	AG (Silver) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1986-08-27
Chemical :	HGE (HGE) ND
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-08-27
Chemical :	BA (Barium) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.1

Samp Collection Date :	1986-08-27
Chemical :	I (Iodide) = 90 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-08-27
Chemical :	TOCH (Total Organic Carbon) = 21 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-08-27
Chemical :	MG (Magnesium) = 420 MG/L
CAS Number :	N/R

Map Id: M72
Direction: SW
Distance: 0.592 mi., 3128 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252901 | USGS-363847120253307 | 363847120252901
36.645506, -120.425444
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228253
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Samp Collection Date :	1986-08-27
Chemical :	NO2 (Nitrite as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.01
Samp Collection Date :	1986-08-27
Chemical :	TEMP (Temperature) = 22 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-08-27
Chemical :	AL (Aluminum) = 10 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	84
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.645506
Longitude :	-120.4254436

Source Chemicals

Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Selenium 1000
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Silver Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 423
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Mercury Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	0.1
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Barium Not Detected ug/l

Map Id: M72
Direction: SW
Distance: 0.592 mi., 3128 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252901 | USGS-363847120253307 | 363847120252901
36.645506, -120.425444
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228253
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	USGS TWRI 5-A1/1989, p 89
Reporting Limit :	100
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Iodide 0.090
Analytical Method :	USGS TWRI 5-A1/1989, p 235
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Organic carbon 21.0
Analytical Method :	USGS TWRI 5-A3/1987, p 15
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Magnesium 420
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Nitrite Not Detected mg/l as N
Analytical Method :	USGS OF 93-125, p 143
Reporting Limit :	0.010
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Temperature, water 22.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-08-27 14:00:00
Chemical :	Aluminum 10
Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-363847120253307
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	180.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS

Map Id: M72
Direction: SW
Distance: 0.592 mi., 3128 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252901 | USGS-363847120253307 | 363847120252901
36.645506, -120.425444
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228253
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Name : USGS-363847120253307
Other Names : N/R
Latitude : 36.645506
Longitude : -120.4254436
Last Date in Agency List : 2022-02-22

GM Chemicals

Samp Collection Date : 1988-08-25
Chemical : PH (pH) = 7.8 PH UNITS
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-08-25
Chemical : NO3N (Nitrate as N) = 1.4 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-08-25
Chemical : NO2 (Nitrite as N) ND 0 MG/L
CAS Number : N/R
Reporting Limit : .01

Samp Collection Date : 1988-08-25
Chemical : AS (Arsenic) = 1 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-08-25
Chemical : SR (Strontium) = 2600 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-08-25
Chemical : SC (Specific Conductivity) = 2480 UMHOS/CM
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-08-25
Chemical : MG (Magnesium) = 130 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-08-25
Chemical : CU (Copper) = .001 MG/L
CAS Number : N/R
Reporting Limit : N/R

Map Id: M72
Direction: SW
Distance: 0.592 mi., 3128 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252901 | USGS-363847120253307 | 363847120252901
36.645506, -120.425444
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228253
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-08-25
Chemical :	NI (Nickel) = 1 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-08-25
Chemical :	FE (Iron) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	180
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.645506
Longitude :	-120.4254436

Source Chemicals

Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	pH 7.8
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Nitrate 1.40
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Nitrite Not Detected mg/l as N
Analytical Method :	USGS OF 93-125, p 143
Reporting Limit :	0.010
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Arsenic 1
Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Strontium 2600
Analytical Method :	USGS TWRI 5-A1/1989, p 465
Reporting Limit :	N/R

Map Id: M72
Direction: SW
Distance: 0.592 mi., 3128 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363847120252901 | USGS-363847120253307 | 363847120252901
36.645506, -120.425444
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9228253
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Lab Note :	N/R
Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Specific conductance 2480
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Magnesium 130
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Copper 1
Analytical Method :	USGS TWRI 5-A1/1989, p 193
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Nickel 1
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-08-25 10:30:00
Chemical :	Iron 20
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 73
Direction: NNE
Distance: 0.595 mi., 3141 ft.
Elevation: 168 ft.
Relative: Lower

Site Name : 364539120223501
36.760783, -120.377391
CA

Database(s) : [NWIS]

Envirosite ID: 9226078
EPA ID: N/R

NWIS

Site Identification Number :	364539120223501
Site Type :	Well
Station Name :	013S015E31B001M
Agency :	U.S. Geological Survey
District :	N/R

Map Id: 73
Direction: NNE
Distance: 0.595 mi., 3141 ft.
Elevation: 168 ft.
Relative: Lower

Site Name : 364539120223501
36.760783, -120.377391
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9226078
EPA ID: N/R

NWIS ***(cont.)***

State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWNWNES31 T13S R15E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	165.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1953-09-12
Date Site Established or Inventoried:	1953-09-12
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	324
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1959-05-01
Field Water-level Measurements End Date:	1959-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.760783
Longitude :	-120.377391
Last Date in Agency List :	2022-03-04

Map Id: 74
Direction: NNE
Distance: 0.604 mi., 3192 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364640120220701
36.777727, -120.369613
CA

Database(s) : [NWIS]

Envirosite ID: 9219282
EPA ID: N/R

NWIS

Site Identification Number :	364640120220701
Site Type :	Well
Station Name :	013S015E30A001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	165.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1948-01-18
Date Site Established or Inventoried:	1951-09-05
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	265
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1962-09-01
Field Water-level Measurements End Date:	1962-09-01
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.777727
Longitude :	-120.369613
Last Date in Agency List :	2022-03-04

Map Id: P75
Direction: SW
Distance: 0.612 mi., 3232 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363832120252301 | 363832120252301
36.642173, -120.424055
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9222103
EPA ID: N/R

NWIS

Site Identification Number :	363832120252301
Site Type :	Well
Station Name :	015S014E11E001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	221.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	Alluvium Above and Below E-Clay (Miocene-Pleistocene)
Local Aquifer Type :	N/R
Well Depth :	369
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1951-08-14
Water-Quality Data End Date :	1951-08-14
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1951-03-01
Field Water-level Measurements End Date:	1951-03-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.642173
Longitude :	-120.424055
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363832120252301

Map Id: P75
Direction: SW
Distance: 0.612 mi., 3232 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363832120252301 | 363832120252301
36.642173, -120.424055
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222103
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	369.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363832120252301
Other Names :	N/R
Latitude :	36.6421727
Longitude :	-120.4240546
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1951-08-14
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	CL (Chloride) = 50 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	SO4 (Sulfate) = 620 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	B (Boron) = 1.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	SC (Specific Conductivity) = 1480 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	PH (pH) = 7.4 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	HCO3 (bicarbonate HCO3) = 210 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: P75
Direction: SW
Distance: 0.612 mi., 3232 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363832120252301 | 363832120252301
36.642173, -120.424055
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222103
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1951-08-14
Chemical :	TEMP (Temperature) = 24.4 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	NA (Sodium) = 230 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1951-08-14
Chemical :	TDS (Total Dissolved Solids) = 990 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	369
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6421727
Longitude :	-120.4240546

Source Chemicals

Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 1.35
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Chloride 50.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Sulfate 620
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1951-08-14
Chemical :	Boron 1800
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: P75
Direction: SW
Distance: 0.612 mi., 3232 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363832120252301 | 363832120252301
36.642173, -120.424055
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9222103
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1951-08-14
Chemical :	Specific conductance 1480
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	pH 7.4
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Bicarbonate 210
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Temperature, water 24.4
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Sodium 230
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1951-08-14
Chemical :	Total dissolved solids 990
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: N76
Direction: N
Distance: 0.627 mi., 3312 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364631120223901 | 364631120223902
36.775227, -120.378502
CA

Database(s) : [NWIS]

Envirosite ID: 9219436
EPA ID: N/R

NWIS

Site Identification Number :	364631120223902

Map Id: N76
Direction: N
Distance: 0.627 mi., 3312 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364631120223901 | 364631120223902
36.775227, -120.378502
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9219436
EPA ID: N/R

NWIS ***(cont.)***

Site Type :	Well
Station Name :	013S015E30C003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWNENWS30 T13S R15E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1964-06-27
Date Site Established or Inventoried:	1968-06-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	225
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.775227
Longitude :	-120.378502
Last Date in Agency List :	2022-03-04

Site Identification Number :	364631120223901
Site Type :	Well
Station Name :	013S015E30C001M
Agency :	U.S. Geological Survey
District :	N/R

Map Id: N76
Direction: N
Distance: 0.627 mi., 3312 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364631120223901 | 364631120223902
36.775227, -120.378502
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9219436
EPA ID: N/R

NWIS ***(cont.)***

State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	240
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1960-05-01
Field Water-level Measurements End Date:	1960-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.775227
Longitude :	-120.378502
Last Date in Agency List :	2022-03-04

Map Id: P77
Direction: SW
Distance: 0.646 mi., 3414 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 363829120252301
36.641339, -120.424054
CA

Database(s) : [NWIS]

Envirosite ID: 31392232
EPA ID: N/R

NWIS

Site Identification Number :	363829120252301
Site Type :	Well
Station Name :	015S014E11E002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	221.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1951-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	995
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1961-05-01
Field Water-level Measurements End Date:	1961-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.641339
Longitude :	-120.424054
Last Date in Agency List :	2022-03-04

Map Id: 78
Direction: N
Distance: 0.659 mi., 3478 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364629120224401 | 364629120224402
36.774672, -120.379891
CA

Database(s) : [NWIS]

Envirosite ID: 9207616
EPA ID: N/R

NWIS

Site Identification Number :	364629120224401
Site Type :	Well
Station Name :	013S015E30F001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1948-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	265
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1960-05-01
Field Water-level Measurements End Date:	1960-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.774672
Longitude :	-120.379891
Last Date in Agency List :	2022-03-04

Site Identification Number :	364629120224402
Site Type :	Well
Station Name :	013S015E30F002M
Agency :	U.S. Geological Survey

Map Id: 78
Direction: N
Distance: 0.659 mi., 3478 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364629120224401 | 364629120224402
36.774672, -120.379891
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9207616
EPA ID: N/R

NWIS ***(cont.)***

District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NESENWS30 T13S R15E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1966-03-19
Date Site Established or Inventoried:	1968-06-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	242
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.774672
Longitude :	-120.379891
Last Date in Agency List :	2022-03-04

Map Id: N79
Direction: N
Distance: 0.671 mi., 3544 ft.
Elevation: 162 ft.
Relative: Lower

Site Name : 364636120223601
36.776616, -120.377669
CA

Database(s) : [NWIS]

Envirosite ID: 9253848
EPA ID: N/R

NWIS

Site Identification Number :	364636120223601
Site Type :	Well
Station Name :	013S015E30B002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	161.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1948-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	240
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1959-05-01
Field Water-level Measurements End Date:	1959-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.776616
Longitude :	-120.377669
Last Date in Agency List :	2022-03-04

Map Id: Q80
Direction: NNE
Distance: 0.680 mi., 3592 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : UTILITY POLE
36.757253, -120.374225
MENDOTA, CA

Database(s) : [DIGITAL OBSTACLE]

Envirosite ID: 909783
EPA ID: N/R

DIGITAL OBSTACLE

Date of Action :	2018-01-29
Action :	Add
FAA Study Number :	2015AWP06669OE
OBS Number :	06-155384
Obstacle Type :	UTILITY POLE
City Name :	MENDOTA
State Identifier :	CA
Country Identifier :	USA
Type of Lighting :	None
Verification Status :	Unverified
Quantity :	1
Mark Indicator :	None
Above Ground Level Height (Feet) :	00038
Above Mean Sea Level Height (Feet) :	00205
Horizontal Accuracy :	+-250'
Vertical Accuracy :	+-50'
Latitude :	36 45 26.11N
Longitude :	120 22 27.21W

Map Id: 81
Direction: SSW
Distance: 0.690 mi., 3642 ft.
Elevation: 220 ft.
Relative: Higher

Site Name : 363615120252601
36.604117, -120.424886
CA

Database(s) : [NWIS]

Envirosite ID: 31350602
EPA ID: N/R

NWIS

Site Identification Number :	363615120252601
Site Type :	Well
Station Name :	015S014E22R001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWSWS22 T15S R14E M
Name of Location Map :	LEVIS
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	217.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1965-01-01
Date Site Established or Inventoried:	1968-04-17
Drainage Area :	N/R
Contributing Drainage Area :	N/R

Map Id: 81
Direction: SSW
Distance: 0.690 mi., 3642 ft.
Elevation: 220 ft.
Relative: Higher

Site Name : 363615120252601
36.604117, -120.424886
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 31350602
EPA ID: N/R

NWIS ***(cont.)***

Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	30.0
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1965-09-01
Field Water-level Measurements End Date:	1965-09-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.604117
Longitude :	-120.424886
Last Date in Agency List :	2022-03-04

Map Id: 82
Direction: S
Distance: 0.705 mi., 3723 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : 363902120242532
36.600506, -120.407941
CA

Database(s) : [NWIS]

Envirosite ID: 9217914
EPA ID: N/R

NWIS

Site Identification Number :	363902120242532
Site Type :	Well
Station Name :	015S014E02 MF-6.40
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929

Map Id: 82
Direction: S
Distance: 0.705 mi., 3723 ft.
Elevation: 214 ft.
Relative: Higher

Site Name : 363902120242532
36.600506, -120.407941
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9217914
EPA ID: N/R

NWIS ***(cont.)***

Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986-02-05
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	40
Hole Depth :	40
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.600506
Longitude :	-120.407941
Last Date in Agency List :	2022-03-04

Map Id: Q83
Direction: NNE
Distance: 0.736 mi., 3888 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364522120222001 |
364522120222001
36.756061, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9223513
EPA ID: N/R

NWIS

Site Identification Number :	364522120222001
Site Type :	Well
Station Name :	013S015E31J002M
Agency :	U.S. Geological Survey
District :	N/R

Map Id: Q83
Direction: NNE
Distance: 0.736 mi., 3888 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364522120222001 | 364522120222001
36.756061, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223513
EPA ID: N/R

NWIS ***(cont.)***

State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	152
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	.01
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1985-08-02
Date Site Established or Inventoried:	1985-08-02
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	27
Hole Depth :	27
Source of Depth Data :	S
Project Number :	470645674
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1985-11-05
Water-Quality Data End Date :	1988-02-23
Water-Quality Data Count :	6
Field Water-Level Measurements Begin Date:	1985-08-22
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	16
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.756061
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364522120222001
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	27.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R

Map Id: Q83
Direction: NNE
Distance: 0.736 mi., 3888 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364522120222001 | 364522120222001
36.756061, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223513
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Data Source :	NWIS
Source Name :	USGS-364522120222001
Other Names :	N/R
Latitude :	36.756061
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1988-02-23
Chemical :	B (Boron) = 4.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	SR (Strontium) = 3300 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	N15N14NO3 (delta N-15, NO3) = 23.2 per mil
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	AG (Silver) = 1 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	NH3NH4N (Ammonia) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.003

Samp Collection Date :	1988-02-23
Chemical :	TEMP (Temperature) = 20.5 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	NA (Sodium) = 2200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q83
Direction: NNE
Distance: 0.736 mi., 3888 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364522120222001 | 364522120222001
36.756061, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223513
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-02-23
Chemical :	SE (Selenium) = 580 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	PB (Lead) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	5
Samp Collection Date :	1988-02-23
Chemical :	AS (Arsenic) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	27
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.756061
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Boron 4800
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Strontium 3300
Analytical Method :	USGS TWRI 5-A1/1989, p 465
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Nitrogen-15/14 ratio 23.20
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Silver 1
Analytical Method :	USGS TWRI 5-A1/1989, p 423
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q83
Direction: NNE
Distance: 0.736 mi., 3888 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364522120222001 | 364522120222001
36.756061, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223513
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Ammonia and ammonium Not Detected mg/l NH4
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	0.003
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Temperature, water 20.5
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Sodium 2200
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Selenium 580
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Lead Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 245
Reporting Limit :	5
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 16:30:00
Chemical :	Arsenic 2
Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q84
Direction: NNE
Distance: 0.755 mi., 3984 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364521120222001 | 364521120222001
36.755783, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9223510
EPA ID: N/R

NWIS

Site Identification Number :	364521120222001
Site Type :	Well
Station Name :	013S015E31J003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	152
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	1.0
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1985-07-23
Date Site Established or Inventoried:	1985-07-23
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	415
Hole Depth :	415
Source of Depth Data :	D
Project Number :	470645674
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1985-11-21
Water-Quality Data End Date :	1985-11-21
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1985-08-22
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	18
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755783
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364521120222001

Map Id: Q84
Direction: NNE
Distance: 0.755 mi., 3984 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364521120222001 | 364521120222001
36.755783, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223510
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	415.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364521120222001
Other Names :	N/R
Latitude :	36.7557832
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1985-11-21
Chemical :	HGE (HGE) ND
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1985-11-21
Chemical :	TEMP (Temperature) = 21.3 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1985-11-21
Chemical :	AS (Arsenic) = 6 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1985-11-21
Chemical :	F (Fluoride) = .3 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1985-11-21
Chemical :	PB (Lead) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1985-11-21
Chemical :	BR (Bromide) = 2 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q84
Direction: NNE
Distance: 0.755 mi., 3984 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364521120222001 | 364521120222001
36.755783, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223510
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1985-11-21
Chemical :	LI (Lithium) = 50 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1985-11-21
Chemical :	NO3N (Nitrate as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.09
Samp Collection Date :	1985-11-21
Chemical :	NO2 (Nitrite as N) = .01 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1985-11-21
Chemical :	ZN (Zinc) = .03 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	415
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7557832
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Mercury Not Detected ug/l
Analytical Method :	N/R
Reporting Limit :	0.10
Lab Note :	N/R
Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Temperature, water 21.3
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Arsenic 6.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q84
Direction: NNE
Distance: 0.755 mi., 3984 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364521120222001 | 364521120222001
36.755783, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223510
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Fluoride 0.30
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Lead Not Detected ug/l
Analytical Method :	N/R
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Bromide 2.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Lithium 50
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Nitrate Not Detected mg/l as N
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	0.090
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Nitrite 0.010
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-21 14:45:00
Chemical :	Zinc 30
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 85
Direction: N
Distance: 0.756 mi., 3994 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364626120225401 | 364626120225402
36.773839, -120.382669
CA

Database(s) : [NWIS]

Envirosite ID: 9199284
EPA ID: N/R

NWIS

Site Identification Number :	364626120225402
Site Type :	Well
Station Name :	013S015E30E003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NESWNWS30 T13S R15E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1966-03-23
Date Site Established or Inventoried:	1968-06-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	275
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.773839
Longitude :	-120.382669
Last Date in Agency List :	2022-03-04

Site Identification Number :	364626120225401
Site Type :	Well
Station Name :	013S015E30E001M
Agency :	U.S. Geological Survey

Map Id: 85
Direction: N
Distance: 0.756 mi., 3994 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364626120225401 | 364626120225402
36.773839, -120.382669
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9199284
EPA ID: N/R

NWIS ***(cont.)***

District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1948-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	260
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1960-05-01
Field Water-level Measurements End Date:	1960-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.773839
Longitude :	-120.382669
Last Date in Agency List :	2022-03-04

Map Id: R86
Direction: NNE
Distance: 0.767 mi., 4049 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364647120221901
36.779672, -120.372947
CA

Database(s) : [NWIS]

Envirosite ID: 9223149
EPA ID: N/R

NWIS

Site Identification Number :	364647120221901
Site Type :	Well
Station Name :	013S015E19Q001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1978-08-17
Date Site Established or Inventoried:	1981-01-20
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Unchecked data.
Data-Other GW Files :	YYNYNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	213
Hole Depth :	222
Source of Depth Data :	N/R
Project Number :	479435800
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1978-08-17
Field Water-level Measurements End Date:	1978-08-17
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.779672
Longitude :	-120.372947
Last Date in Agency List :	2022-03-04

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9198942
EPA ID: N/R

NWIS

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Site Identification Number :	364520120222013
Site Type :	Well
Station Name :	013S015E31J014M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	153
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	1.0
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1988-08-12
Date Site Established or Inventoried:	1988-08-12
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	26.67
Hole Depth :	26.67
Source of Depth Data :	D
Project Number :	470642800
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1988-10-26
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	3
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

Site Identification Number :	364520120222010
Site Type :	Well
Station Name :	013S015E31J011M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	152
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987-04-10
Date Site Established or Inventoried:	1987-04-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	47.0
Hole Depth :	47.0
Source of Depth Data :	O
Project Number :	470645679
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-04-22
Water-Quality Data End Date :	1988-02-24
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	1987-04-21
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	10
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Site Identification Number :	364520120222015
Site Type :	Well

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

Station Name :	013S015E31J016M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	164
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1990-08-15
Date Site Established or Inventoried:	1990-08-15
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	66.92
Hole Depth :	70
Source of Depth Data :	G
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1990-08-23
Water-Quality Data End Date :	1990-08-30
Water-Quality Data Count :	4
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Site Identification Number :	364520120222008
Site Type :	Well
Station Name :	013S015E31J009M
Agency :	U.S. Geological Survey

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	152
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987-04-09
Date Site Established or Inventoried:	1987-06-08
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	40.7
Hole Depth :	40.7
Source of Depth Data :	O
Project Number :	470645672
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-04-22
Water-Quality Data End Date :	1988-02-23
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	1987-04-21
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	22
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Site Identification Number :	364520120222009
Site Type :	Well
Station Name :	013S015E31J010M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	152
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987-04-09
Date Site Established or Inventoried:	1987-04-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	34.5
Hole Depth :	35.0
Source of Depth Data :	O
Project Number :	470645672
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-04-22
Water-Quality Data End Date :	1988-02-23
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	1987-04-21
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	8
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Site Identification Number :	364520120222001
Site Type :	Well
Station Name :	013S015E31J004M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	153
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	1.0
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1985-07-16
Date Site Established or Inventoried:	1985-07-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	70
Hole Depth :	70
Source of Depth Data :	D
Project Number :	470645674
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1985-11-21
Water-Quality Data End Date :	1987-04-23
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	1985-08-22
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	13
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Site Identification Number :	364520120222011
Site Type :	Well
Station Name :	013S015E31J012M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

Scale of Location Map :	24000
Altitude of Gage/Land Surface :	153
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	1.0
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1988-08-11
Date Site Established or Inventoried:	1988-08-11
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	66.83
Hole Depth :	66.83
Source of Depth Data :	D
Project Number :	470642800
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1988-08-09
Water-Quality Data End Date :	1991-11-06
Water-Quality Data Count :	30
Field Water-Level Measurements Begin Date:	1988-10-26
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	3
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Site Identification Number :	364520120222007
Site Type :	Well
Station Name :	013S015E31J008M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	152

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987-04-09
Date Site Established or Inventoried:	1987-04-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	51.0
Hole Depth :	51.0
Source of Depth Data :	O
Project Number :	470645679
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-04-23
Water-Quality Data End Date :	1988-02-23
Water-Quality Data Count :	2
Field Water-Level Measurements Begin Date:	1987-04-21
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	8
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Site Identification Number :	364520120222012
Site Type :	Well
Station Name :	013S015E31J013M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	153
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	1.0

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1988-08-12
Date Site Established or Inventoried:	1988-08-12
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	37.77
Hole Depth :	37.77
Source of Depth Data :	D
Project Number :	470642800
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1988-11-29
Water-Quality Data End Date :	1988-11-29
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1988-10-26
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	8
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

Site Identification Number :	364520120222006
Site Type :	Well
Station Name :	013S015E31J007M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	152
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

NWIS ***(cont.)***

Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987-04-08
Date Site Established or Inventoried:	1987-04-08
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	57.0
Hole Depth :	61.4
Source of Depth Data :	O
Project Number :	470645679
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1987-04-22
Water-Quality Data End Date :	1989-07-13
Water-Quality Data Count :	4
Field Water-Level Measurements Begin Date:	1987-04-21
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	23
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755505
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364520120222011
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	66.83
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222011
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1991-11-06
Chemical :	CL (Chloride) = 1100 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	MN (Manganese) = 460 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	SC (Specific Conductivity) = 5190 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	TOCH (Total Organic Carbon) = 2 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	MG (Magnesium) = 90 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	AS (Arsenic) = 1 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	FE (Iron) = 530 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1991-11-06
Chemical :	NA (Sodium) = 900 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	MO (Molybdenum) = 10 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	66.83
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Chloride 1100
Analytical Method :	Standard Methods (22d ed), 2012, p 4-5 - 4-7
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Manganese 460
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Specific conductance 5190
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Organic carbon 2.0
Analytical Method :	USGS TWRI 5-A3/1987, p 15
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Magnesium 90.0
Analytical Method :	USGS TWRI 5-A1/1989, p 263

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Arsenic 1
Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Iron 530
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Total dissolved solids 4.24
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Sodium 900
Analytical Method :	USGS TWRI 5-A1/1989, p 425
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1991-11-06 15:20:00
Chemical :	Molybdenum 10
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364520120222009
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	34.5
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222009
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

GM Chemicals

Samp Collection Date :	1988-02-23
Chemical :	PH (pH) = 6.4 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	MN (Manganese) = 12000 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	CR (Chromium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1988-02-23
Chemical :	B (Boron) = 4.8 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	H-3 (Tritium) = pCi/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	HG (Mercury) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1988-02-23
Chemical :	CU (Copper) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.001
Samp Collection Date :	1988-02-23
Chemical :	NH3NH4N (Ammonia) = .256 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	K (Potassium) = 16 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-02-23
Chemical :	ZN (Zinc) = .02 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	34.5
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	pH 6.4
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Manganese 12000
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Chromium Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 59
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Boron 4800
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Tritium 6.7
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Mercury Not Detected ug/l

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	0.1
Lab Note :	N/R
Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Copper Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 193
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Ammonia and ammonium 0.256
Analytical Method :	USGS OF 93-125, p 119
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Potassium 16.0
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-02-23 15:00:00
Chemical :	Zinc 20
Analytical Method :	USGS TWRI 5-A1/1989, p 507
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364520120222006
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	57.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222006
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1989-07-13
Chemical :	TOCH (Total Organic Carbon) = 2.2 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1989-07-13
Chemical :	AL (Aluminum) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10
Samp Collection Date :	1989-07-13
Chemical :	I (Iodide) = 170 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1989-07-13
Chemical :	SC (Specific Conductivity) = 4350 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1989-07-13
Chemical :	BR (Bromide) = 3 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1989-07-13
Chemical :	V (Vanadium) = 19 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1989-07-13
Chemical :	PH (pH) = 7.9 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1989-07-13
Chemical :	AL (Aluminum) = 10 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1989-07-13
Chemical :	SR (Strontium) = 1000 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1989-07-13
Chemical :	FE (Iron) = 170 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Details

Datum :	NAD83
Well Depth (Ft.) :	57
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Organic carbon 2.2
Analytical Method :	USGS TWRI 5-A3/1987, p 15
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Aluminum Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	10
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Iodide 0.170
Analytical Method :	USGS TWRI 5-A1/1989, p 235
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Specific conductance 4350
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Bromide 3.00
Analytical Method :	USGS TWRI 5-A1/1989, p 121
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Strontium 1000
Analytical Method :	USGS TWRI 5-A1/1989, p 465
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Iron 170

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Chromium Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 59
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Copper Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 71
Reporting Limit :	1.0
Lab Note :	N/R
Samp Collection Date-Time :	1989-07-13 18:50:00
Chemical :	Barium 200
Analytical Method :	USGS TWRI 5-A1/1989, p 89
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364520120222015
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	66.92
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222015
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1990-08-30
Chemical :	TEMP (Temperature) = 21 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1990-08-30
Chemical :	PH (pH) = 7.9 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date : 1990-08-30
Chemical : SC (Specific Conductivity) = 3050 UMHOS/CM
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1990-08-28
Chemical : AL (Aluminum) = 10 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1990-08-28
Chemical : NO2 (Nitrite as N) = .01 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1990-08-28
Chemical : BR (Bromide) = 5.9 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1990-08-28
Chemical : NH3NH4N (Ammonia) = .285 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1990-08-28
Chemical : F (Fluoride) = .7 MG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1990-08-28
Chemical : AG (Silver) ND 0 UG/L
CAS Number : N/R
Reporting Limit : 1

Samp Collection Date : 1990-08-28
Chemical : CA (Calcium) = 42 MG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 66.92
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.7555055

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Longitude : -120.3732238

Source Chemicals

Samp Collection Date-Time : 1990-08-30 16:44:00
Chemical : Temperature, water 21.0
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1990-08-30 16:44:00
Chemical : pH 7.9
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1990-08-30 16:44:00
Chemical : Specific conductance 3050
Analytical Method : N/R
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1990-08-28 16:49:00
Chemical : Aluminum 10
Analytical Method : USGS OF 93-125, p 13
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1990-08-28 16:49:00
Chemical : Nitrite 0.010
Analytical Method : USGS OF 93-125, p 143
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1990-08-28 16:49:00
Chemical : Bromide 5.90
Analytical Method : USGS TWRI 5-A1/1989, p 121
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1990-08-28 16:49:00
Chemical : Ammonia and ammonium 0.285
Analytical Method : NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit : N/R
Lab Note : N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1990-08-28 16:49:00
Chemical :	Fluoride 0.7
Analytical Method :	USGS OF 93-125, p 19
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1990-08-28 16:49:00
Chemical :	Silver Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 203
Reporting Limit :	1.0
Lab Note :	N/R

Samp Collection Date-Time :	1990-08-28 16:49:00
Chemical :	Calcium 42.0
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364520120222012
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	37.77
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222012
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1988-11-29
Chemical :	NO2 (Nitrite as N) = .02 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-11-29
Chemical :	I (Iodide) = 240 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-11-29
Chemical :	SC (Specific Conductivity) = 20900 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-11-29
Chemical :	TDS (Total Dissolved Solids) = 15200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-11-29
Chemical :	ZN (Zinc) = .03 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-11-29
Chemical :	TEMP (Temperature) = 19 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-11-29
Chemical :	MO (Molybdenum) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-11-29
Chemical :	BR (Bromide) = 17 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-11-29
Chemical :	B (Boron) = 5.1 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-11-29
Chemical :	TOCH (Total Organic Carbon) = 4.9 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	37.77
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Chemicals

Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Nitrite 0.020
Analytical Method :	USGS OF 93-125, p 143
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Iodide 0.240
Analytical Method :	USGS TWRI 5-A1/1989, p 235
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Specific conductance 20900
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Total dissolved solids 15200
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Zinc 30
Analytical Method :	USGS TWRI 5-A1/1989, p 507
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Temperature, water 19.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Molybdenum 2
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Bromide 17.0
Analytical Method :	USGS TWRI 5-A1/1989, p 121
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Boron 5100
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-11-29 15:30:00
Chemical :	Organic carbon 4.9
Analytical Method :	USGS TWRI 5-A3/1987, p 15
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364520120222008
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	40.7
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222008
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1988-02-23
Chemical :	CD (Cadmium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1988-02-23
Chemical :	BR (Bromide) = 21 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	H-3 (Tritium) = pCi/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	PH (pH) = 6.7 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-02-23
Chemical :	I (Iodide) = 200 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	PB (Lead) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	5
Samp Collection Date :	1988-02-23
Chemical :	SE (Selenium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1988-02-23
Chemical :	LI (Lithium) = 300 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	CU (Copper) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.001
Samp Collection Date :	1988-02-23
Chemical :	AS (Arsenic) = 2 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	40.7
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Cadmium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 125
Reporting Limit :	1
Lab Note :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Bromide 21.0
Analytical Method :	USGS TWRI 5-A1/1989, p 121
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Tritium 5.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	pH 6.7
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Iodide 0.200
Analytical Method :	USGS TWRI 5-A1/1989, p 235
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Lead Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 245
Reporting Limit :	5
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Selenium Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 403
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Lithium 300
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Copper Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 193
Reporting Limit :	1
Lab Note :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-02-23 10:00:00
Chemical :	Arsenic 2
Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364520120222007
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	51.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222007
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1988-02-23
Chemical :	MN (Manganese) = 8100 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	V (Vanadium) = 110 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	CU (Copper) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.001

Samp Collection Date :	1988-02-23
Chemical :	HCO3 (bicarbonate HCO3) = 474 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1988-02-23
Chemical :	BR (Bromide) = 21 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1988-02-23
Chemical :	SC (Specific Conductivity) = 23900 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	I (Iodide) = 270 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	SR (Strontium) = 6700 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-23
Chemical :	NO3N (Nitrate as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1988-02-23
Chemical :	SE (Selenium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Source Details

Datum :	NAD83
Well Depth (Ft.) :	51
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Manganese 8100
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Vanadium 110
Analytical Method :	USGS OF 93-125, p 211
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Copper Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 193
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Bicarbonate 474
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Bromide 21.0
Analytical Method :	USGS TWRI 5-A1/1989, p 121
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Specific conductance 23900
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Iodide 0.270
Analytical Method :	USGS TWRI 5-A1/1989, p 235
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Specific conductance 23900
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Strontium 6700
Analytical Method :	USGS TWRI 5-A1/1989, p 465
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-23 13:00:00
Chemical :	Nitrate Not Detected mg/l as N
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	0.100
Lab Note :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Details

Well ID :	USGS-364520120222010
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	47.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222010
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1988-02-24
Chemical :	AG (Silver) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1988-02-24
Chemical :	SR (Strontium) = 8800 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-24
Chemical :	CD (Cadmium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1988-02-24
Chemical :	CL (Chloride) = 8000 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-24
Chemical :	SO4 (Sulfate) = 4900 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-24
Chemical :	SC (Specific Conductivity) = 27000 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1988-02-24
Chemical :	LI (Lithium) = 320 UG/L

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-02-24
Chemical : MO (Molybdenum) = 7 UG/L
CAS Number : N/R
Reporting Limit : N/R

Samp Collection Date : 1988-02-24
Chemical : CR (Chromium) ND 0 UG/L
CAS Number : N/R
Reporting Limit : 1

Samp Collection Date : 1988-02-24
Chemical : FE (Iron) = 18000 UG/L
CAS Number : N/R
Reporting Limit : N/R

Source Details
Datum : NAD83
Well Depth (Ft.) : 47
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.7555055
Longitude : -120.3732238

Source Chemicals
Samp Collection Date-Time : 1988-02-24 10:45:00
Chemical : Silver Not Detected ug/l
Analytical Method : USGS TWRI 5-A1/1989, p 423
Reporting Limit : 1
Lab Note : N/R

Samp Collection Date-Time : 1988-02-24 10:45:00
Chemical : Strontium 8800
Analytical Method : USGS TWRI 5-A1/1989, p 465
Reporting Limit : N/R
Lab Note : N/R

Samp Collection Date-Time : 1988-02-24 10:45:00
Chemical : Cadmium Not Detected ug/l
Analytical Method : USGS TWRI 5-A1/1989, p 125
Reporting Limit : 1
Lab Note : N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1988-02-24 10:45:00
Chemical :	Chloride 8000
Analytical Method :	USGS TWRI 5-A1/1989, p 151
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-24 10:45:00
Chemical :	Sulfate 4900
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-24 10:45:00
Chemical :	Specific conductance 27000
Analytical Method :	USGS TWRI 5-A1/1989, p 461
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-24 10:45:00
Chemical :	Lithium 320
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-24 10:45:00
Chemical :	Molybdenum 7
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-24 10:45:00
Chemical :	Chromium Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 59
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1988-02-24 10:45:00
Chemical :	Iron 18000
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364520120222001
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	70.0
Top of Screen (Ft.) :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364520120222001
Other Names :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	1987-04-23
Chemical :	MO (Molybdenum) = 18 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-23
Chemical :	V (Vanadium) = 12 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-23
Chemical :	NI (Nickel) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1987-04-23
Chemical :	K (Potassium) = 2.7 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-23
Chemical :	SR (Strontium) = 500 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-23
Chemical :	CU (Copper) = .006 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-23
Chemical :	MN (Manganese) = 20 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1987-04-23
Chemical :	SO4 (Sulfate) = 360 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-23
Chemical :	CA (Calcium) = 34 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1987-04-23
Chemical :	AL (Aluminum) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	10

Source Details

Datum :	NAD83
Well Depth (Ft.) :	70
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7555055
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Molybdenum 18
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Vanadium 12
Analytical Method :	USGS OF 93-125, p 211
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Nickel Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 299
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Potassium 2.70
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R

Map Id: Q87
Direction: NNE
Distance: 0.773 mi., 4081 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364520120222001 | USGS-364520120222006 | USGS-364520120222007
36.755505, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9198942
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Strontium 500
Analytical Method :	USGS TWRI 5-A1/1989, p 465
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Copper 6
Analytical Method :	USGS TWRI 5-A1/1989, p 193
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Manganese 20
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Sulfate 360
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Calcium 34.0
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1987-04-23 12:10:00
Chemical :	Aluminum Not Detected ug/l
Analytical Method :	USGS OF 93-125, p 13
Reporting Limit :	10
Lab Note :	N/R

Map Id: Q88
Direction: NNE
Distance: 0.791 mi., 4177 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364519120222001 | 364519120222001
36.755228, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9253829
EPA ID: N/R

NWIS

Site Identification Number :	364519120222001
Site Type :	Well
Station Name :	013S015E31J005M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	153
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	1.0
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1985-07-16
Date Site Established or Inventoried:	1985-07-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	260
Hole Depth :	260
Source of Depth Data :	D
Project Number :	470645674
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1985-11-20
Water-Quality Data End Date :	1991-11-06
Water-Quality Data Count :	3
Field Water-Level Measurements Begin Date:	1985-08-22
Field Water-level Measurements End Date:	1992-05-07
Field Water-Level Measurements Count:	11
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755228
Longitude :	-120.373224
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364519120222001

Map Id: Q88
Direction: NNE
Distance: 0.791 mi., 4177 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364519120222001 | 364519120222001
36.755228, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9253829
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	260.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364519120222001
Other Names :	N/R
Latitude :	36.7552277
Longitude :	-120.3732238
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1991-11-06
Chemical :	MO (Molybdenum) = 9 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	CA (Calcium) = 130 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	NH3NH4N (Ammonia) = .296 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	NH3NH4N (Ammonia) = .23 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	MN (Manganese) = 720 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1991-11-06
Chemical :	B (Boron) = .91 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q88
Direction: NNE
Distance: 0.791 mi., 4177 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364519120222001 | 364519120222001
36.755228, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9253829
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1991-11-06
Chemical :	MG (Magnesium) = 19 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1991-11-06
Chemical :	AS (Arsenic) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1991-11-06
Chemical :	FE (Iron) = 460 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1991-11-06
Chemical :	SO4 (Sulfate) = 520 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	260
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7552277
Longitude :	-120.3732238

Source Chemicals

Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Molybdenum 9
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Calcium 130
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Ammonia and ammonium 0.296
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q88
Direction: NNE
Distance: 0.791 mi., 4177 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364519120222001 | 364519120222001
36.755228, -120.373224
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9253829
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Ammonia and ammonium 0.230
Analytical Method :	USGS OF 93-125, p 125
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Manganese 720
Analytical Method :	USGS TWRI 5-A1/1989, p 275
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Boron 910
Analytical Method :	USGS OF 93-125, p 47
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Magnesium 19.0
Analytical Method :	USGS TWRI 5-A1/1989, p 263
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Arsenic Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 77
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Iron 460
Analytical Method :	USGS TWRI 5-A1/1989, p 239
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1991-11-06 15:45:00
Chemical :	Sulfate 520
Analytical Method :	Standard Methods (22d ed), 2012, p 4-5 - 4-7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q89
Direction: NNE
Distance: 0.796 mi., 4201 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364518120222001 | 364518120222001
36.755167, -120.37325
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9210377
EPA ID: N/R

NWIS

Site Identification Number :	364518120222001
Site Type :	Well
Station Name :	013S015E31J006M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NESES31 T13S R15E M
Name of Location Map :	MENDOTA DAM, CA
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	150.16
Method Altitude Determined :	Level or other surveyed method.
Altitude Accuracy :	1
Altitude Datum :	North American Vertical Datum of 1988
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	AANINNNNNNNNNNNNNNNNNNNNNNNNA
Flags for Instruments at Site :	YNNNNNNNNNNNNNNNYNNNNNNNNNNNN
Date of First Construction :	1985-07-15
Date Site Established or Inventoried:	1985-07-15
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYYN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	Unconfined single aquifer
Well Depth :	495
Hole Depth :	500
Source of Depth Data :	D
Project Number :	470645674
Real-Time Data Flag :	1
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1985-11-25
Water-Quality Data End Date :	1985-11-25
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1985-08-22
Field Water-level Measurements End Date:	2021-11-30
Field Water-Level Measurements Count:	93
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755167
Longitude :	-120.37325
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364518120222001

Map Id: Q89
Direction: NNE
Distance: 0.796 mi., 4201 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364518120222001 | 364518120222001
36.755167, -120.37325
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210377
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	495.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364518120222001
Other Names :	N/R
Latitude :	36.7551667
Longitude :	-120.37325
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1985-11-25
Chemical :	MO (Molybdenum) = 22 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1985-11-25
Chemical :	SO4 (Sulfate) = 560 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1985-11-25
Chemical :	TEMP (Temperature) = 22.5 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1985-11-25
Chemical :	PB (Lead) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1

Samp Collection Date :	1985-11-25
Chemical :	HGE (HGE) ND
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1985-11-25
Chemical :	BR (Bromide) = .23 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: Q89
Direction: NNE
Distance: 0.796 mi., 4201 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364518120222001 | 364518120222001
36.755167, -120.37325
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210377
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1985-11-25
Chemical :	HG (Mercury) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.1
Samp Collection Date :	1985-11-25
Chemical :	PH (pH) = 7.8 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1985-11-25
Chemical :	AG (Silver) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1985-11-25
Chemical :	ZN (Zinc) = .069 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	495
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7551667
Longitude :	-120.37325

Source Chemicals

Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Molybdenum 22
Analytical Method :	USGS TWRI 5-A1/1989, p 293
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Sulfate 560
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Temperature, water 22.5
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q89
Direction: NNE
Distance: 0.796 mi., 4201 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : USGS-364518120222001 | 364518120222001
36.755167, -120.37325
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9210377
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Lead Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 245
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Mercury Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	0.1
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Bromide 0.23
Analytical Method :	USGS TWRI 5-A1/1989, p 121
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	pH 7.8
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Silver Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 423
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Zinc 69.0
Analytical Method :	USGS OF 93-125, p 101
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1985-11-25 11:00:00
Chemical :	Total dissolved solids 1180
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: Q90
Direction: NNE
Distance: 0.805 mi., 4249 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364518120222401
36.755039, -120.373289
CA

Database(s) : [NWIS]

Envirosite ID: 9217819
EPA ID: N/R

NWIS

Site Identification Number :	364518120222401
Site Type :	Extensometer well
Station Name :	013S015E31J017M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NESES31 T13S R15E M
Name of Location Map :	MENDOTA DAM, CA
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	163
Method Altitude Determined :	Interpolated from Digital Elevation Model
Altitude Accuracy :	5.4
Altitude Datum :	North American Vertical Datum of 1988
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNA
Flags for Instruments at Site :	YNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Minimal data.
Data-Other GW Files :	YY
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	411
Hole Depth :	462
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	1
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.755039
Longitude :	-120.373289
Last Date in Agency List :	2022-03-04

Map Id: R91
Direction: NNE
Distance: 0.818 mi., 4317 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364650120221601
36.780505, -120.372113
CA

Database(s) : [NWIS]

Envirosite ID: 9218202
EPA ID: N/R

NWIS

Site Identification Number :	364650120221601
Site Type :	Well
Station Name :	013S015E19R001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWSESES19 T13S R15E M
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	155.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1956
Date Site Established or Inventoried:	1968-06-11
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	247
Hole Depth :	N/R
Source of Depth Data :	S
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1958-04-01
Field Water-level Measurements End Date:	1958-04-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.780505
Longitude :	-120.372113
Last Date in Agency List :	2022-03-04

Map Id: R92
Direction: NNE
Distance: 0.818 mi., 4318 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364651120220901
36.780783, -120.370169
CA

Database(s) : [NWIS]

Envirosite ID: 9229188
EPA ID: N/R

NWIS

Site Identification Number :	364651120220901
Site Type :	Well
Station Name :	013S015E30A002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	165.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1948-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	265
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.780783
Longitude :	-120.370169
Last Date in Agency List :	2022-03-04

Map Id: R93
Direction: N
Distance: 0.821 mi., 4334 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364649120222401
36.780227, -120.374336
CA

Database(s) : [NWIS]

Envirosite ID: 9232735
EPA ID: N/R

NWIS

Site Identification Number :	364649120222401
Site Type :	Well
Station Name :	013S015E19Q002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	San Luis Obispo County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	157.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1979-07-20
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	200
Hole Depth :	210
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1979-07-20
Field Water-level Measurements End Date:	1979-07-20
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.780227
Longitude :	-120.374336
Last Date in Agency List :	2022-03-04

Map Id: S94
Direction: NNE
Distance: 0.823 mi., 4347 ft.
Elevation: 169 ft.
Relative: Lower

Site Name : 364523120223901 | 364523120223902
36.756389, -120.3775
CA

Database(s) : [NWIS]

Envirosite ID: 9217823
EPA ID: N/R

NWIS

Site Identification Number :	364523120223902
Site Type :	Well
Station Name :	013S015E31Z002M MENDENHALL 1916
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Location not accurate.
Data-Other GW Files :	N/R
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	285
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.756389
Longitude :	-120.3775
Last Date in Agency List :	2022-03-04

Site Identification Number :	364523120223901
Site Type :	Well
Station Name :	013S015E31Z001M MENDENHALL 1916
Agency :	U.S. Geological Survey

Map Id: S94
Direction: NNE
Distance: 0.823 mi., 4347 ft.
Elevation: 169 ft.
Relative: Lower

Site Name : 364523120223901 | 364523120223902
36.756389, -120.3775
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9217823
EPA ID: N/R

NWIS ***(cont.)***

District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Location not accurate.
Data-Other GW Files :	N/R
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	640
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.756389
Longitude :	-120.3775
Last Date in Agency List :	2022-03-04

Map Id: S95
Direction: NNE
Distance: 0.830 mi., 4383 ft.
Elevation: 170 ft.
Relative: Lower

Site Name : UTILITY POLE
36.75655, -120.377989
MENDOTA, CA

Database(s) : [DIGITAL OBSTACLE]

Envirosite ID: 904003
EPA ID: N/R

DIGITAL OBSTACLE

Date of Action :	2018-01-30
Action :	Add
FAA Study Number :	2016AWP04234OE
OBS Number :	06-162559
Obstacle Type :	UTILITY POLE
City Name :	MENDOTA
State Identifier :	CA
Country Identifier :	USA
Type of Lighting :	None
Verification Status :	Unverified
Quantity :	1
Mark Indicator :	None
Above Ground Level Height (Feet) :	00048
Above Mean Sea Level Height (Feet) :	00217
Horizontal Accuracy :	+-250'
Vertical Accuracy :	+-50'
Latitude :	36 45 23.58N
Longitude :	120 22 40.76W

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9223944
EPA ID: N/R

NWIS

Site Identification Number :	364650120221901
Site Type :	Well
Station Name :	013S015E19R003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SESES19 T13S R15E
Name of Location Map :	MENDOTA DAM, CA
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	164
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNNA
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	2010-01-18
Date Site Established or Inventoried:	2010-02-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

NWIS ***(cont.)***

Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YY Y
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	Confined single aquifer
Well Depth :	550
Hole Depth :	561
Source of Depth Data :	S
Project Number :	9677-E2R00
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	2010-04-06
Water-Quality Data End Date :	2012-01-20
Water-Quality Data Count :	4
Field Water-Level Measurements Begin Date:	2010-04-06
Field Water-level Measurements End Date:	2020-08-20
Field Water-Level Measurements Count:	105
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.780681
Longitude :	-120.372203
Last Date in Agency List :	2022-03-04

Site Identification Number :	364650120221903
Site Type :	Well
Station Name :	013S015E19R005M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SESES19 T13S R15E
Name of Location Map :	MENDOTA DAM, CA
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	164
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNNA
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	2010-01-18
Date Site Established or Inventoried:	2010-02-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YY Y
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

NWIS ***(cont.)***

Local Aquifer Type :	Unconfined single aquifer
Well Depth :	78
Hole Depth :	561
Source of Depth Data :	S
Project Number :	9677-E2R00
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	2010-04-06
Water-Quality Data End Date :	2012-01-20
Water-Quality Data Count :	4
Field Water-Level Measurements Begin Date:	2010-04-06
Field Water-level Measurements End Date:	2020-08-20
Field Water-Level Measurements Count:	86
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.780681
Longitude :	-120.372203
Last Date in Agency List :	2022-03-04

Site Identification Number :	364650120221902
Site Type :	Well
Station Name :	013S015E19R004M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SESES19 T13S R15E
Name of Location Map :	MENDOTA DAM, CA
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	164
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NANANNNNNNNNNNNNNNNNNNNNNNNNA
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	2010-01-18
Date Site Established or Inventoried:	2010-02-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YY Y
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	Confined single aquifer
Well Depth :	350
Hole Depth :	561
Source of Depth Data :	S

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

NWIS ***(cont.)***

Project Number :	9677-E2R00
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	2010-04-07
Water-Quality Data End Date :	2012-01-20
Water-Quality Data Count :	4
Field Water-Level Measurements Begin Date:	2010-04-07
Field Water-level Measurements End Date:	2020-08-20
Field Water-Level Measurements Count:	91
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.780681
Longitude :	-120.372203
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	DM-U-11
Well Type :	MUNICIPAL
Well Depth (Ft.) :	78.0
Top of Screen (Ft.) :	58.0
Screen Length (Ft.) :	78.0
Source :	N/R
Data Source :	USGS
Source Name :	DM-U-11
Other Names :	N/R
Latitude :	36.78068056
Longitude :	-120.37220278
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	2010-04-06
Chemical :	IPBZ (Isopropylbenzene (Cumene)) < .042 UG/L
CAS Number :	98-82-8
Reporting Limit :	.042

Samp Collection Date :	2010-04-06
Chemical :	TEBUTHIURON (tebuthiuron) < .028 UG/L
CAS Number :	34014-18-1
Reporting Limit :	.028

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	2010-04-06
Chemical :	DCMA (Dichloromethane (Methylene Chloride)) < .04 UG/L
CAS Number :	75-09-2
Reporting Limit :	.038
Samp Collection Date :	2010-04-06
Chemical :	EPTAM (EPTC) .0142 UG/L
CAS Number :	759-94-4
Reporting Limit :	.002
Samp Collection Date :	2010-04-06
Chemical :	FONOFOS (Fonofos) < .0044 UG/L
CAS Number :	944-22-9
Reporting Limit :	.0044
Samp Collection Date :	2010-04-06
Chemical :	C-14 (Carbon 14) 85.62 PCT MODERN
CAS Number :	14762-75-5
Reporting Limit :	N/R
Samp Collection Date :	2010-04-06
Chemical :	PCATE (Perchlorate) < .1 UG/L
CAS Number :	14797-73-0
Reporting Limit :	.1
Samp Collection Date :	2010-04-06
Chemical :	DCE12T (trans-1,2, Dichloroethylene) < .018 UG/L
CAS Number :	156-60-5
Reporting Limit :	.018
Samp Collection Date :	2010-04-06
Chemical :	OXYFLUOREN (Oxyfluorfen) < .01 UG/L
CAS Number :	42874-03-3
Reporting Limit :	.01
Samp Collection Date :	2010-04-06
Chemical :	FC12 (Dichlorodifluoromethane) < .0001 MG/L
CAS Number :	75-71-8
Reporting Limit :	.0001

Source Details

Datum :	N/R
Well Depth (Ft.) :	78
Top of Screen (Ft.) :	58
Screen Length (Ft.) :	78
Latitude :	36.78068056
Longitude :	-120.37220278

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Chemicals

Samp Collection Date-Time :	2010-04-06 1620
Chemical :	Perchlorate, wf < .1 ug/l
Analytical Method :	MS050
Reporting Limit :	.1
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-06 1620
Chemical :	Chromium, wf < 1 ug/l
Analytical Method :	GF075
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-06 1620
Chemical :	N-Nitrosodimethylamine, wu < .002 ug/l
Analytical Method :	MS046
Reporting Limit :	.002
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-06 1620
Chemical :	1,2,3-Trichloropropane, wu < .005 ug/l
Analytical Method :	MS047
Reporting Limit :	.005
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-06 1610
Chemical :	Isopropylbenzene, wu < .042 ug/l
Analytical Method :	GCM66
Reporting Limit :	.042
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-06 1610
Chemical :	Tebuthiuron, w,gf<.7u < .028 ug/l
Analytical Method :	GCM35
Reporting Limit :	.028
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-06 1610
Chemical :	Dichloromethane, wu < .04 ug/l
Analytical Method :	GCM66
Reporting Limit :	.038
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-06 1610
Chemical :	EPTC, w,gf<.7u .0142 ug/l
Analytical Method :	GCM35
Reporting Limit :	.002
Lab Note :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	2010-04-06 1610
Chemical :	Fonofos, wf < .0044 ug/l
Analytical Method :	GCM35
Reporting Limit :	.0044
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1610
Chemical :	C-14, wf 85.62 pct modern
Analytical Method :	AMS02
Reporting Limit :	N/R
Lab Note :	N/R

Well Details

Well ID :	USGS-364650120221902
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364650120221902
Other Names :	N/R
Latitude :	36.7806806
Longitude :	-120.3722028
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	2012-01-20
Chemical :	BR (Bromide) = .842 MG/L
CAS Number :	N/R
Reporting Limit :	.01

Samp Collection Date :	2012-01-20
Chemical :	NO2 (Nitrite as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.001

Samp Collection Date :	2012-01-20
Chemical :	TDS (Total Dissolved Solids) = 838 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	2012-01-20
Chemical :	NO3N (Nitrate as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.04

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	2012-01-20
Chemical :	CA (Calcium) = 9.59 MG/L
CAS Number :	N/R
Reporting Limit :	.022
Samp Collection Date :	2012-01-20
Chemical :	F (Fluoride) = .65 MG/L
CAS Number :	N/R
Reporting Limit :	.04
Samp Collection Date :	2012-01-20
Chemical :	NA (Sodium) = 267 MG/L
CAS Number :	N/R
Reporting Limit :	.06
Samp Collection Date :	2012-01-20
Chemical :	K (Potassium) = 3.78 MG/L
CAS Number :	N/R
Reporting Limit :	.03
Samp Collection Date :	2012-01-20
Chemical :	AS (Arsenic) = 16.1 UG/L
CAS Number :	N/R
Reporting Limit :	.03
Samp Collection Date :	2012-01-20
Chemical :	FE (Iron) = 13.7 UG/L
CAS Number :	N/R
Reporting Limit :	3.2

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7806806
Longitude :	-120.3722028

Source Chemicals

Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Bromide 0.842 mg/l
Analytical Method :	USGS TWRI 5-A1/1989, p 523
Reporting Limit :	0.010
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Nitrite Not Detected mg/l as N

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Analytical Method :	N/R
Reporting Limit :	0.0010
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Total dissolved solids 838
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Nitrate Not Detected mg/l as N
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	0.040
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Calcium 9.59 mg/l
Analytical Method :	USGS OF 93-125, p 101
Reporting Limit :	0.022
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Fluoride 0.65 mg/l
Analytical Method :	USGS TWRI 5-A1/1989, p 221
Reporting Limit :	0.04
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Sodium 267 mg/l
Analytical Method :	USGS OF 93-125, p 101
Reporting Limit :	0.06
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Potassium 3.78 mg/l
Analytical Method :	Standard Methods
Reporting Limit :	0.03
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Arsenic 16.1 ug/l
Analytical Method :	USGS TMR 5-B1
Reporting Limit :	0.03
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:00:00
Chemical :	Iron 13.7 ug/l
Analytical Method :	USGS OF 93-125, p 101

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	3.2
Lab Note :	N/R

Well Details

Well ID :	USGS-364650120221901
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364650120221901
Other Names :	N/R
Latitude :	36.7806806
Longitude :	-120.3722028
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	2012-01-20
Chemical :	TEMP (Temperature) = 19.2 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	2012-01-20
Chemical :	CL (Chloride) = 427 MG/L
CAS Number :	N/R
Reporting Limit :	.06
Samp Collection Date :	2012-01-20
Chemical :	PH (pH) = 8.1 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	2012-01-20
Chemical :	I (Iodide) = 390 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	2012-01-20
Chemical :	BA (Barium) = .0179 MG/L
CAS Number :	N/R
Reporting Limit :	.0003
Samp Collection Date :	2012-01-20
Chemical :	HCO3 (bicarbonate HCO3) = 151 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	2012-01-20
Chemical :	SE (Selenium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.15
Samp Collection Date :	2012-01-20
Chemical :	AL (Aluminum) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	11
Samp Collection Date :	2012-01-20
Chemical :	NA (Sodium) = 488 MG/L
CAS Number :	N/R
Reporting Limit :	.06
Samp Collection Date :	2012-01-20
Chemical :	NO2 (Nitrite as N) ND 0 MG/L
CAS Number :	N/R
Reporting Limit :	.001

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7806806
Longitude :	-120.3722028

Source Chemicals

Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Temperature, water 19.2
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Chloride 427 mg/l
Analytical Method :	Standard Methods (22d ed), 2012, p 4-5 - 4-7
Reporting Limit :	0.06
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	pH 8.1
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Iodide 0.390 mg/l
Analytical Method :	USGS TWRI 5-A1/1989, p 235
Reporting Limit :	0.001
Lab Note :	N/R

Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Barium 17.9 ug/l
Analytical Method :	USGS OF 93-125, p 101
Reporting Limit :	0.3
Lab Note :	N/R

Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Bicarbonate 151
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Selenium Not Detected ug/l
Analytical Method :	USGS TMR 5-B1
Reporting Limit :	0.15
Lab Note :	N/R

Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Aluminum Not Detected ug/l
Analytical Method :	USGS OF 92-634
Reporting Limit :	11.0
Lab Note :	N/R

Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Sodium 488 mg/l
Analytical Method :	USGS OF 93-125, p 101
Reporting Limit :	0.06
Lab Note :	N/R

Samp Collection Date-Time :	2012-01-20 13:40:00
Chemical :	Nitrite Not Detected mg/l as N
Analytical Method :	N/R
Reporting Limit :	0.0010
Lab Note :	N/R

Well Details

Well ID :	DM-U-10
Well Type :	MUNICIPAL
Well Depth (Ft.) :	550.0
Top of Screen (Ft.) :	530.0
Screen Length (Ft.) :	550.0
Source :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Data Source :	USGS
Source Name :	DM-U-10
Other Names :	N/R
Latitude :	36.78068056
Longitude :	-120.37220278
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	2010-04-06
Chemical :	METRIBUZ (Metribuzin) < .012 UG/L
CAS Number :	21087-64-9
Reporting Limit :	.012

Samp Collection Date :	2010-04-06
Chemical :	VC (Vinyl Chloride) < .06 UG/L
CAS Number :	75-01-4
Reporting Limit :	.06

Samp Collection Date :	2010-04-06
Chemical :	DCBZ12 (1,2 Dichlorobenzene (1,2-DCB)) < .028 UG/L
CAS Number :	95-50-1
Reporting Limit :	.028

Samp Collection Date :	2010-04-06
Chemical :	BTBZS (sec-Butylbenzene) < .034 UG/L
CAS Number :	135-98-8
Reporting Limit :	.034

Samp Collection Date :	2010-04-06
Chemical :	BZME (Toluene) < .02 UG/L
CAS Number :	108-88-3
Reporting Limit :	.018

Samp Collection Date :	2010-04-06
Chemical :	ZN (Zinc) < .028 MG/L
CAS Number :	7440-66-6
Reporting Limit :	.0028

Samp Collection Date :	2010-04-06
Chemical :	BZ (Benzene) < .026 UG/L
CAS Number :	71-43-2
Reporting Limit :	.026

Samp Collection Date :	2010-04-06
Chemical :	CA (Calcium) 34.4 MG/L
CAS Number :	7440-70-2
Reporting Limit :	.044

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	2010-04-06
Chemical :	H-3 (Tritium) R -.48 pCi/L
CAS Number :	10028-17-8
Reporting Limit :	.35

Samp Collection Date :	2010-04-06
Chemical :	TRIFLURALIN (Trifluralin) < .018 UG/L
CAS Number :	1582-09-8
Reporting Limit :	.018

Source Details

Datum :	N/R
Well Depth (Ft.) :	550
Top of Screen (Ft.) :	530
Screen Length (Ft.) :	550
Latitude :	36.78068056
Longitude :	-120.37220278

Source Chemicals

Samp Collection Date-Time :	2010-04-06 1100
Chemical :	1,2,3-Trichloropropane, wu < .005 ug/l
Analytical Method :	MS047
Reporting Limit :	.005
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1100
Chemical :	Perchlorate, wf < .1 ug/l
Analytical Method :	MS050
Reporting Limit :	.1
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1100
Chemical :	Chromium, wf < 1 ug/l
Analytical Method :	GF075
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1100
Chemical :	N-Nitrosodimethylamine, wu < .002 ug/l
Analytical Method :	MS046
Reporting Limit :	.002
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1050
Chemical :	Metribuzin, wf < .012 ug/l
Analytical Method :	GCM35
Reporting Limit :	.012
Lab Note :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	2010-04-06 1050
Chemical :	Vinyl chloride, wu < .06 ug/l
Analytical Method :	GCM66
Reporting Limit :	.06
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1050
Chemical :	1,2-Dichlorobenzene, wu < .028 ug/l
Analytical Method :	GCM66
Reporting Limit :	.028
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1050
Chemical :	sec-Butylbenzene, wu < .034 ug/l
Analytical Method :	GCM66
Reporting Limit :	.034
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1050
Chemical :	Toluene, wu < .02 ug/l
Analytical Method :	GCM66
Reporting Limit :	.018
Lab Note :	N/R

Samp Collection Date-Time :	2010-04-06 1050
Chemical :	Zinc, wf < 28 ug/l
Analytical Method :	PLM10
Reporting Limit :	2.8
Lab Note :	d :

Well Details

Well ID :	DM-U-12
Well Type :	MUNICIPAL
Well Depth (Ft.) :	350.0
Top of Screen (Ft.) :	330.0
Screen Length (Ft.) :	350.0
Source :	N/R
Data Source :	USGS
Source Name :	DM-U-12
Other Names :	N/R
Latitude :	36.78068056
Longitude :	-120.37220278
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	2010-04-07
Chemical :	O18O16RAT (delta O18/O16 in water) -10.03 per mil
CAS Number :	14797-71-8
Reporting Limit :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	2010-04-07
Chemical :	DBCP (1,2-Dibromo-3-chloropropane (DBCP)) < .03 UG/L
CAS Number :	96-12-8
Reporting Limit :	.03

Samp Collection Date :	2010-04-07
Chemical :	NO3N (Nitrate as N) < .04 MG/L
CAS Number :	14797-55-8
Reporting Limit :	N/R

Samp Collection Date :	2010-04-07
Chemical :	DACTH (Dacthal) < .0076 UG/L
CAS Number :	1861-32-1
Reporting Limit :	.0076

Samp Collection Date :	2010-04-07
Chemical :	FC12 (Dichlorodifluoromethane) < .0001 MG/L
CAS Number :	75-71-8
Reporting Limit :	.0001

Samp Collection Date :	2010-04-07
Chemical :	PHORATE (Phorate) < .02 UG/L
CAS Number :	298-02-2
Reporting Limit :	.02

Samp Collection Date :	2010-04-07
Chemical :	PCATE (Perchlorate) < .1 UG/L
CAS Number :	14797-73-0
Reporting Limit :	.1

Samp Collection Date :	2010-04-07
Chemical :	PROPGITE (Propargite) < .02 UG/L
CAS Number :	2312-35-8
Reporting Limit :	.02

Samp Collection Date :	2010-04-07
Chemical :	PH (pH) 7.9 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	2010-04-07
Chemical :	IME (Methyl Iodide) < .26 UG/L
CAS Number :	74-88-4
Reporting Limit :	.26

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Details

Datum :	N/R
Well Depth (Ft.) :	350
Top of Screen (Ft.) :	330
Screen Length (Ft.) :	350
Latitude :	36.78068056
Longitude :	-120.37220278

Source Chemicals

Samp Collection Date-Time :	2010-04-07 1120
Chemical :	Perchlorate, wf < .1 ug/l
Analytical Method :	MS050
Reporting Limit :	.1
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-07 1120
Chemical :	1,2,3-Trichloropropane, wu < .005 ug/l
Analytical Method :	MS047
Reporting Limit :	.005
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-07 1120
Chemical :	Chromium, wf < 1 ug/l
Analytical Method :	GF075
Reporting Limit :	1
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-07 1120
Chemical :	N-Nitrosodimethylamine, wu < .002 ug/l
Analytical Method :	MS046
Reporting Limit :	.002
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-07 1110
Chemical :	delta O-18/O-16, wu -10.03 per mil
Analytical Method :	MS020
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-07 1110
Chemical :	Dibromochloropropane, wu < .03 ug/l
Analytical Method :	GC108
Reporting Limit :	.03
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-07 1110
Chemical :	Nitrate, wf < .04 mg/l as N
Analytical Method :	ALGOR
Reporting Limit :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Lab Note :	N/R
Samp Collection Date-Time :	2010-04-07 1110
Chemical :	DCPA, w,gf<.7u < .0076 ug/l
Analytical Method :	GCM35
Reporting Limit :	.0076
Lab Note :	N/R
Samp Collection Date-Time :	2010-04-07 1110
Chemical :	CFC-12, wu < .1 ug/l
Analytical Method :	GCM66
Reporting Limit :	.1
Lab Note :	The parameter 34668 is a highly variable compound : m : c :
Samp Collection Date-Time :	2010-04-07 1110
Chemical :	Phorate, w,gf<.7u < .02 ug/l
Analytical Method :	GCM35
Reporting Limit :	.02
Lab Note :	N/R

Well Details

Well ID :	USGS-364650120221903
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364650120221903
Other Names :	N/R
Latitude :	36.7806806
Longitude :	-120.3722028
Last Date in Agency List :	2022-02-22

GM Chemicals

Samp Collection Date :	2012-01-20
Chemical :	FE (Iron) = 273 UG/L
CAS Number :	N/R
Reporting Limit :	3.2
Samp Collection Date :	2012-01-20
Chemical :	NH3NH4N (Ammonia) = .853 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	2012-01-20
Chemical :	I (Iodide) = 86 UG/L
CAS Number :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	1
Samp Collection Date :	2012-01-20
Chemical :	SC (Specific Conductivity) = 877 UMHOS/CM
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	2012-01-20
Chemical :	HCO3 (bicarbonate HCO3) = 273 MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	2012-01-20
Chemical :	SE (Selenium) = .03 UG/L
CAS Number :	N/R
Reporting Limit :	.03
Samp Collection Date :	2012-01-20
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	2012-01-20
Chemical :	BR (Bromide) = .302 MG/L
CAS Number :	N/R
Reporting Limit :	.01
Samp Collection Date :	2012-01-20
Chemical :	NA (Sodium) = 112 MG/L
CAS Number :	N/R
Reporting Limit :	.06
Samp Collection Date :	2012-01-20
Chemical :	NH3NH4N (Ammonia) = .66 MG/L
CAS Number :	N/R
Reporting Limit :	.01

Source Details

Datum :	NAD83
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7806806
Longitude :	-120.3722028

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Source Chemicals

Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Iron 273 ug/l
Analytical Method :	USGS OF 93-125, p 101
Reporting Limit :	3.2
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Ammonia and ammonium 0.853
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Iodide 0.086 mg/l
Analytical Method :	USGS TWRI 5-A1/1989, p 235
Reporting Limit :	0.001
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Specific conductance 877
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Bicarbonate 273
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Selenium 0.03 ug/l
Analytical Method :	USGS TMR 5-B1
Reporting Limit :	0.03
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Total dissolved solids 0.72
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Bromide 0.302 mg/l
Analytical Method :	USGS TWRI 5-A1/1989, p 523
Reporting Limit :	0.010
Lab Note :	N/R

Map Id: R96
Direction: NNE
Distance: 0.830 mi., 4384 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : DM-U-10 | DM-U-11 | DM-U-12
36.780681, -120.372203
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9223944
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Sodium 112 mg/l
Analytical Method :	USGS OF 93-125, p 101
Reporting Limit :	0.06
Lab Note :	N/R

Samp Collection Date-Time :	2012-01-20 15:00:00
Chemical :	Ammonia and ammonium 0.66 mg/l as N
Analytical Method :	Analyst, 1980, v 105, p 305-316
Reporting Limit :	0.010
Lab Note :	N/R

Map Id: 97
Direction: N
Distance: 0.853 mi., 4506 ft.
Elevation: 166 ft.
Relative: Lower

Site Name : 364622120230301 | 364622120230302
36.772727, -120.385169
CA

Database(s) : [NWIS]

Envirosite ID: 9219403
EPA ID: N/R

NWIS

Site Identification Number :	364622120230301
Site Type :	Well
Station Name :	013S015E30E002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	162.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1947-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	225

Map Id: 97
Direction: N
Distance: 0.853 mi., 4506 ft.
Elevation: 166 ft.
Relative: Lower

Site Name : 364622120230301 | 364622120230302
36.772727, -120.385169
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9219403
EPA ID: N/R

NWIS ***(cont.)***

Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1960-05-01
Field Water-level Measurements End Date:	1960-05-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.772727
Longitude :	-120.385169
Last Date in Agency List :	2022-03-04

Site Identification Number :	364622120230302
Site Type :	Well
Station Name :	013S015E30E004M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SWSWNWS30 T13S R15E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	160.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Middle San Joaquin-Lower Chowchilla
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1965-06-30
Date Site Established or Inventoried:	1968-06-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	235
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	N/R

Map Id: 97
Direction: N
Distance: 0.853 mi., 4506 ft.
Elevation: 166 ft.
Relative: Lower

Site Name : 364622120230301 | 364622120230302
36.772727, -120.385169
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9219403
EPA ID: N/R

NWIS ***(cont.)***

Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.772727
Longitude :	-120.385169
Last Date in Agency List :	2022-03-04

Map Id: 98
Direction: NNE
Distance: 0.887 mi., 4685 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 0401921173
36.776505, -120.354561
CA

Database(s) : [OIL & GAS WELLS - CA]

Envirosite ID: 10203328
EPA ID: N/R

OIL & GAS WELLS - CA

Spud Date :	1978-11-10
API Number :	0401921173
Well Status :	Plugged
Well Type :	Dry Hole
Operator Code :	P3400
Operator Name :	D. J. Pickrell, Operator
Lease Name :	DEM
Field Name :	Any Field
Area Name :	Any Area
District :	Inland
County :	Fresno
Section/Township/Range :	SEC 29, TWP 13S, RNG 15E
Base Meridian :	Mount Diablo
GIS Source :	hud
Confidential Well :	No
Directionallly Drilled :	No
Latitude :	36.776505
Longitude :	-120.354561
Last Date in Agency List :	2022-04-04

Map Id: 99
Direction: N
Distance: 0.890 mi., 4698 ft.
Elevation: 171 ft.
Relative: Lower

Site Name : TOWER
36.762586, -120.384717
MENDOTA, CA

Database(s) : [DIGITAL OBSTACLE]

Envirosite ID: 820900
EPA ID: N/R

DIGITAL OBSTACLE

Date of Action :	2020-08-28
Action :	Change
FAA Study Number :	2020AWP05315OE
OBS Number :	06-002509
Obstacle Type :	TOWER
City Name :	MENDOTA
State Identifier :	CA
Country Identifier :	USA
Type of Lighting :	Red
Verification Status :	Verified
Quantity :	1
Mark Indicator :	Orange or Orange And White Paint
Above Ground Level Height (Feet) :	00165
Above Mean Sea Level Height (Feet) :	00330
Horizontal Accuracy :	+-50'
Vertical Accuracy :	+-20'
Latitude :	36 45 45.31N
Longitude :	120 23 04.98W

Map Id: 100
Direction: NNE
Distance: 0.891 mi., 4704 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364512120220701
36.753283, -120.369613
CA

Database(s) : [NWIS]

Envirosite ID: 9223183
EPA ID: N/R

NWIS

Site Identification Number :	364512120220701
Site Type :	Well
Station Name :	013S015E31J001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	163.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R

Map Id: 100
Direction: NNE
Distance: 0.891 mi., 4704 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364512120220701
36.753283, -120.369613
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9223183
EPA ID: N/R

NWIS ***(cont.)***

Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.753283
Longitude :	-120.369613
Last Date in Agency List :	2022-03-04

Map Id: 101
Direction: N
Distance: 0.923 mi., 4875 ft.
Elevation: 167 ft.
Relative: Lower

Site Name : USGS-364614120231001 |
364614120231001 | 364614120231002
36.770505, -120.387113
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 31384169
EPA ID: N/R

NWIS

Site Identification Number :	364614120231002
Site Type :	Well
Station Name :	013S014E25J003M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NENESES25 T13S R14E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	165.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.

Map Id: 101
Direction: N
Distance: 0.923 mi., 4875 ft.
Elevation: 167 ft.
Relative: Lower

Site Name : USGS-364614120231001 | 364614120231001 | 364614120231002
36.770505, -120.387113
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31384169
EPA ID: N/R

NWIS ***(cont.)***

Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1966-03-24
Date Site Established or Inventoried:	1968-06-06
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	252
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.770505
Longitude :	-120.387113
Last Date in Agency List :	2022-03-04

Site Identification Number :	364614120231001
Site Type :	Well
Station Name :	013S014E25J002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SESESES25 T13S R14E M
Name of Location Map :	FIREBAUGH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	164.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R

Map Id: 101
Direction: N
Distance: 0.923 mi., 4875 ft.
Elevation: 167 ft.
Relative: Lower

Site Name : USGS-364614120231001 | 364614120231001 | 364614120231002
36.770505, -120.387113
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31384169
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1951-12-30
Date Site Established or Inventoried:	1956-08-10
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	Alluvium Above E-Clay
Local Aquifer Type :	N/R
Well Depth :	234
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1968-07-17
Water-Quality Data End Date :	1968-07-17
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.770505
Longitude :	-120.387113
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364614120231001
Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	234.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364614120231001
Other Names :	N/R
Latitude :	36.7705053
Longitude :	-120.3871135
Last Date in Agency List :	2022-02-22

GM Chemicals

Map Id: 101
Direction: N
Distance: 0.923 mi., 4875 ft.
Elevation: 167 ft.
Relative: Lower

Site Name : USGS-364614120231001 | 364614120231001 | 364614120231002
36.770505, -120.387113
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31384169
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1968-07-17
Chemical :	HCO3 (bicarbonate HCO3) = 220 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	TDS (Total Dissolved Solids) = MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	PH (pH) = 8.3 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	CL (Chloride) = 680 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	NA (Sodium) = 490 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	CA (Calcium) = 72 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	B (Boron) = .6 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	SO4 (Sulfate) = 260 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1968-07-17
Chemical :	TEMP (Temperature) = 19 CELSIUS
CAS Number :	N/R
Reporting Limit :	N/R

Map Id: 101
Direction: N
Distance: 0.923 mi., 4875 ft.
Elevation: 167 ft.
Relative: Lower

Site Name : USGS-364614120231001 | 364614120231001 | 364614120231002
36.770505, -120.387113
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31384169
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1968-07-17
Chemical :	NO3N (Nitrate as N) = .655 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Source Details

Datum :	NAD83
Well Depth (Ft.) :	234
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.7705053
Longitude :	-120.3871135

Source Chemicals

Samp Collection Date-Time :	1968-07-17
Chemical :	Bicarbonate 220
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Total dissolved solids 2.34
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	pH 8.3
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Chloride 680
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Sodium 490
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Calcium 72.0
Analytical Method :	N/R

Map Id: 101
Direction: N
Distance: 0.923 mi., 4875 ft.
Elevation: 167 ft.
Relative: Lower

Site Name : USGS-364614120231001 | 364614120231001 | 364614120231002
36.770505, -120.387113
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 31384169
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Boron 600
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Sulfate 260
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Temperature, water 19.0
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1968-07-17
Chemical :	Nitrate 0.655
Analytical Method :	NWIS User's Manual, QW System, Section 3.6.7
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 102
Direction: SW
Distance: 0.928 mi., 4901 ft.
Elevation: 229 ft.
Relative: Higher

Site Name : 363944120255001
36.662173, -120.431556
CA

Database(s) : [NWIS]

Envirosite ID: 9257225
EPA ID: N/R

NWIS

Site Identification Number :	363944120255001
Site Type :	Well
Station Name :	014S014E34P001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SESESWS34 T14S R14E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000

Map Id: 102
Direction: SW
Distance: 0.928 mi., 4901 ft.
Elevation: 229 ft.
Relative: Higher

Site Name : 363944120255001
36.662173, -120.431556
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9257225
EPA ID: N/R

NWIS ***(cont.)***

Altitude of Gage/Land Surface :	227.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1957-11-05
Date Site Established or Inventoried:	1958-05-09
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	981
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1966-12-01
Field Water-level Measurements End Date:	1966-12-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.662173
Longitude :	-120.431556
Last Date in Agency List :	2022-03-04

Map Id: 103
Direction: SSE
Distance: 0.954 mi., 5038 ft.
Elevation: 189 ft.
Relative: Lower

Site Name : 363757120221301
36.63245, -120.371274
CA

Database(s) : [NWIS]

Envirosite ID: 9228136
EPA ID: N/R

NWIS

Site Identification Number :	363757120221301
Site Type :	Well

Map Id: 103
Direction: SSE
Distance: 0.954 mi., 5038 ft.
Elevation: 189 ft.
Relative: Lower

Site Name : 363757120221301
36.63245, -120.371274
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9228136
EPA ID: N/R

NWIS ***(cont.)***

Station Name :	015S015E07R001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	185.0
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	9
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.63245
Longitude :	-120.371274
Last Date in Agency List :	2022-03-04

Map Id: 104
Direction: SSE
Distance: 0.955 mi., 5043 ft.
Elevation: 193 ft.
Relative: Higher

Site Name : 364032120231401
36.675506, -120.388221
CA

Database(s) : [NWIS]

Envirosite ID: 9232016
EPA ID: N/R

NWIS

Site Identification Number :	364032120231401
Site Type :	Well
Station Name :	014S014E36A001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NENENES36 T14S R14E M
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	188.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1962-09-27
Date Site Established or Inventoried:	1968-05-16
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	20.0
Hole Depth :	N/R
Source of Depth Data :	A
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1962-10-01
Field Water-level Measurements End Date:	1962-10-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.675506
Longitude :	-120.388221
Last Date in Agency List :	2022-03-04

Map Id: 105
Direction: SE
Distance: 0.977 mi., 5159 ft.
Elevation: 183 ft.
Relative: Lower

Site Name : 363940120221001
36.661061, -120.370442
CA

Database(s) : [NWIS]

Envirosite ID: 9210293
EPA ID: N/R

NWIS

Site Identification Number :	363940120221001
Site Type :	Well
Station Name :	015S015E05D001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	180.0
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNANNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	NYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	11.5
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.661061
Longitude :	-120.370442
Last Date in Agency List :	2022-03-04

Map Id: 106
Direction: NNE
Distance: 0.982 mi., 5186 ft.
Elevation: 164 ft.
Relative: Lower

Site Name : 364508120221601
36.752172, -120.372113
CA

Database(s) : [NWIS]

Envirosite ID: 9219213
EPA ID: N/R

NWIS

Site Identification Number :	364508120221601
Site Type :	Well
Station Name :	013S015E31R001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NESESES31 T13S R15E M
Name of Location Map :	MENDOTA DAM
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	164.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	1951-09-06
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.752172
Longitude :	-120.372113
Last Date in Agency List :	2022-03-04

Map Id: 107
Direction: SSW
Distance: 0.988 mi., 5219 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363757120252301 | 363757120252301
36.63245, -120.424054
CA

Database(s) : [NWIS, WELLS - GAMA - CA]

Envirosite ID: 9209336
EPA ID: N/R

NWIS

Site Identification Number :	363757120252301
Site Type :	Well
Station Name :	015S014E14D002M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	COIT RANCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	222.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1966-07-21
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	29
Hole Depth :	29
Source of Depth Data :	O
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	1986-04-02
Water-Quality Data End Date :	1986-04-02
Water-Quality Data Count :	1
Field Water-Level Measurements Begin Date:	1966-07-21
Field Water-level Measurements End Date:	1986-04-03
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.63245
Longitude :	-120.424054
Last Date in Agency List :	2022-03-04

WELLS - GAMA - CA

Well Details

Well ID :	USGS-363757120252301

Map Id: 107
Direction: SSW
Distance: 0.988 mi., 5219 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363757120252301 | 363757120252301
36.63245, -120.424054
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9209336
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	29.0
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-363757120252301
Other Names :	N/R
Latitude :	36.6324505
Longitude :	-120.4240542
Last Date in Agency List :	2022-02-22

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	1986-04-02
Chemical :	SO4 (Sulfate) = 2200 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	LI (Lithium) = 250 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	MO (Molybdenum) = 6 UG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	K (Potassium) = 2.3 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	CA (Calcium) = 610 MG/L
CAS Number :	N/R
Reporting Limit :	N/R

Samp Collection Date :	1986-04-02
Chemical :	NI (Nickel) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	100

Map Id: 107
Direction: SSW
Distance: 0.988 mi., 5219 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363757120252301 | 363757120252301
36.63245, -120.424054
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9209336
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date :	1986-04-02
Chemical :	CD (Cadmium) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	1
Samp Collection Date :	1986-04-02
Chemical :	PH (pH) = 7.6 PH UNITS
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-02
Chemical :	AL (Aluminum) = 10 UG/L
CAS Number :	N/R
Reporting Limit :	N/R
Samp Collection Date :	1986-04-02
Chemical :	HG (Mercury) ND 0 UG/L
CAS Number :	N/R
Reporting Limit :	.1

Source Details

Datum :	NAD83
Well Depth (Ft.) :	29
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Latitude :	36.6324505
Longitude :	-120.4240542

Source Chemicals

Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Sulfate 2200
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Lithium 250
Analytical Method :	USGS TWRI 5-A1/1989, p 257
Reporting Limit :	N/R
Lab Note :	N/R
Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Molybdenum 6
Analytical Method :	N/R
Reporting Limit :	N/R
Lab Note :	N/R

Map Id: 107
Direction: SSW
Distance: 0.988 mi., 5219 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : USGS-363757120252301 | 363757120252301
36.63245, -120.424054
CA

Database(s) : [NWIS, WELLS - GAMA - CA] ***(cont.)***

Envirosite ID: 9209336
EPA ID: N/R

WELLS - GAMA - CA ***(cont.)***

Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Potassium 2.30
Analytical Method :	USGS TWRI 5-A1/1989, p 393
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Calcium 610
Analytical Method :	USGS TWRI 5-A1/1989, p 137
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Nickel Detected Not Quantified ug/l
Analytical Method :	N/R
Reporting Limit :	100
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Cadmium Not Detected ug/l
Analytical Method :	N/R
Reporting Limit :	1
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	pH 7.6
Analytical Method :	USGS TWRI 5-A1/1989, p 363
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Aluminum 10
Analytical Method :	USGS TWRI 5-A1/1989, p 61
Reporting Limit :	N/R
Lab Note :	N/R

Samp Collection Date-Time :	1986-04-02 16:15:00
Chemical :	Mercury Not Detected ug/l
Analytical Method :	USGS TWRI 5-A1/1989, p 289
Reporting Limit :	0.1
Lab Note :	N/R

Map Id: 108
Direction: SW
Distance: 0.996 mi., 5261 ft.
Elevation: 233 ft.
Relative: Higher

Site Name : 363851120255501
36.64745, -120.432944
CA

Database(s) : [NWIS]

Envirosite ID: 9231826
EPA ID: N/R

NWIS

Site Identification Number :	363851120255501
Site Type :	Well
Station Name :	015S014E03Q001M
Agency :	U.S. Geological Survey
District :	N/R
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	230.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1961-01-01
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	1120
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1968-12-01
Field Water-level Measurements End Date:	1968-12-01
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.64745
Longitude :	-120.432944
Last Date in Agency List :	2022-03-04

RADON DATA:

STATE SOURCE: CA

Radon Test Results:

Zip:	Total Sites:	Cnt >=4 pCi/L:	Pct >= 4 pCi/L:	Max Result (pCi/L):
93630	38	16	42.105	6

FEDERAL AREA RADON INFORMATION FOR: 93630

NUMBER OF SAMPLE SITES: 1

Area:	Average Activity:	% <4 pCi/L:	% 4-20 pCi/L:	% >20 pCi/L:
first floor	0.9 pCi/L	100%	0%	0%

FEDERAL EPA RADON ZONE FOR FRESNO COUNTY: Zone = 2

Note: Zone 1 indoor average level > 4 pCI/L

: Zone 2 indoor average level > = 2 pCI/L and <= 4 pCI/L

: Zone 3 indoor average < 2 pCI/L

HIST PWS ENF
Historical Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
List of Safe Drinking Water Information Systems (SDWIS) with enforcement violations that are no longer in current agency list.

NWIS
National Water Information Systems
United States Geological Society
(703) 648-5953
Information on all water resources for the United States. This database contains all current and historical data for the nation.

PWS
Public Water Supply
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems

PWS ENF
Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems with enforcememnt violations

WELLS - GAMA - CA
California Groundwater Ambient Monitoring Assessment
State Water Resources Control Board
916-341-5791
Brings together datasets from California state agencies including: Public Health Water Resources and Pesticide Regulation as well as from the US Geological Survey Lawrence Livermore National Laboratory and the Water Boards. It shows results for untreated raw water in different types of wells for naturally-occurring and man-made chemicals.

FLOOD Q3
Flood data
Environmental Protection Agency
(202) 566-1667
Q3 Flood Data

HYDROLOGIC UNIT
Hydrologic Unit Maps
USGS
The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

WETLANDS NWI
National Wetland Inventory
U.S. Fish and Wildlife Service
(703) 358-2171
Wetland Inventory for the United States

SSURGO
Detailed Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
Detailed Soil Data Map

STATSGO & MUI
General Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
General Soil Data Map

USGS GEOLOGIC AGE
USGS Digital Data Series DDS
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

DAMS - CA
California Dam Inundation Maps
Department of Water Resources
916-845-8275
Dam inundation maps show the maximum extent of damage of a flood wave from a dam failure

OIL & GAS WELLS - CA
Oil and Gas Well Data
State of California Department of Conservation
916-327-1042
Oil and gas well locations and detail for all 6 districts

RADON
National Radon Database
U.S. Environmental Protection Agency
215-814-2469
A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

RADON - CA
Radon tested locations in California
California Department of Health Services
(916) 449-5674
A table of long term and short term indoor radon measurments

RADON EPA
RADON EPA
U.S. Environmental Protection Agency
215-814-2469
EPA list of Radon zones

AIRPORT FACILITIES
Airport landing facilities
Federal Aviation Administration
(866) 835-5322
Airport landing facilities

BASINS
Better Assessment Science Integrating point & Non-point Sources
U.S. Environmental Protection Agency
855-246-3642
Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

DIGITAL OBSTACLE
Obstacles of interest to aviation users
Federal Aviation Administration
855-379-6518
The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

EPICENTERS
National Geographical Data Center
National Geographical Data Center
303-497-6826
List of recent and historic earthquakes and information.

FLOOD DFIRM
National Flood Hazard Layer Database
Federal Emergency Management Agency
The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMAs Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.

APPENDIX B

Historical Aerial Photographs and Topographic Maps

Historical Aerial Photo Report | 2022

Order Number: 70138
Report Generated: 04/19/2022

Project Name:
Project Number:

Route 33
Route 33
Kerman, CA, 93630

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2 Corporate Dr
Suite 450
Shelton, CT 06484
Toll Free: 866-211-2028
www.envirositecorp.com

Historical Aerial Photo Report 2022

Envirosite's Historical Aerial Photo Report is designed to assist in evaluating a subject property resulting from past activities. Envirosite's Historical Aerial Photo Report includes a search of available historical aerial photographs, dating back to the 1930s, or earliest available photographs.

ENVIROSITE SEARCHED SOURCES

SUBJECT PROPERTY:

Route 33
Route 33
Kerman, CA, 93630

YEAR:	***SCALE:***	***SOURCE:***
1946	1" = 1,500'	U.S.G.S
1955	1" = 1,500'	U.S.G.S
1960	1" = 1,500'	U.S.G.S
1965	1" = 1,500'	U.S.D.A
1971	1" = 1,500'	U.S.G.S
1975	1" = 1,500'	U.S.G.S
1978	1" = 1,500'	U.S.G.S
1982	1" = 1,500'	U.S.G.S
1985	1" = 1,500'	U.S.G.S
1987	1" = 1,500'	NAPP
1993	1" = 1,500'	NAPP
1995	1" = 1,500'	U.S.G.S
1998	1" = 1,500'	DOQ
2005	1" = 1,500'	NAIP
2009	1" = 1,500'	NAIP
2010	1" = 1,500'	NAIP
2012	1" = 1,500'	NAIP
2014	1" = 1,500'	NAIP
2016	1" = 1,500'	NAIP
2018	1" = 1,500'	NAIP
2020	1" = 1,500'	NAIP

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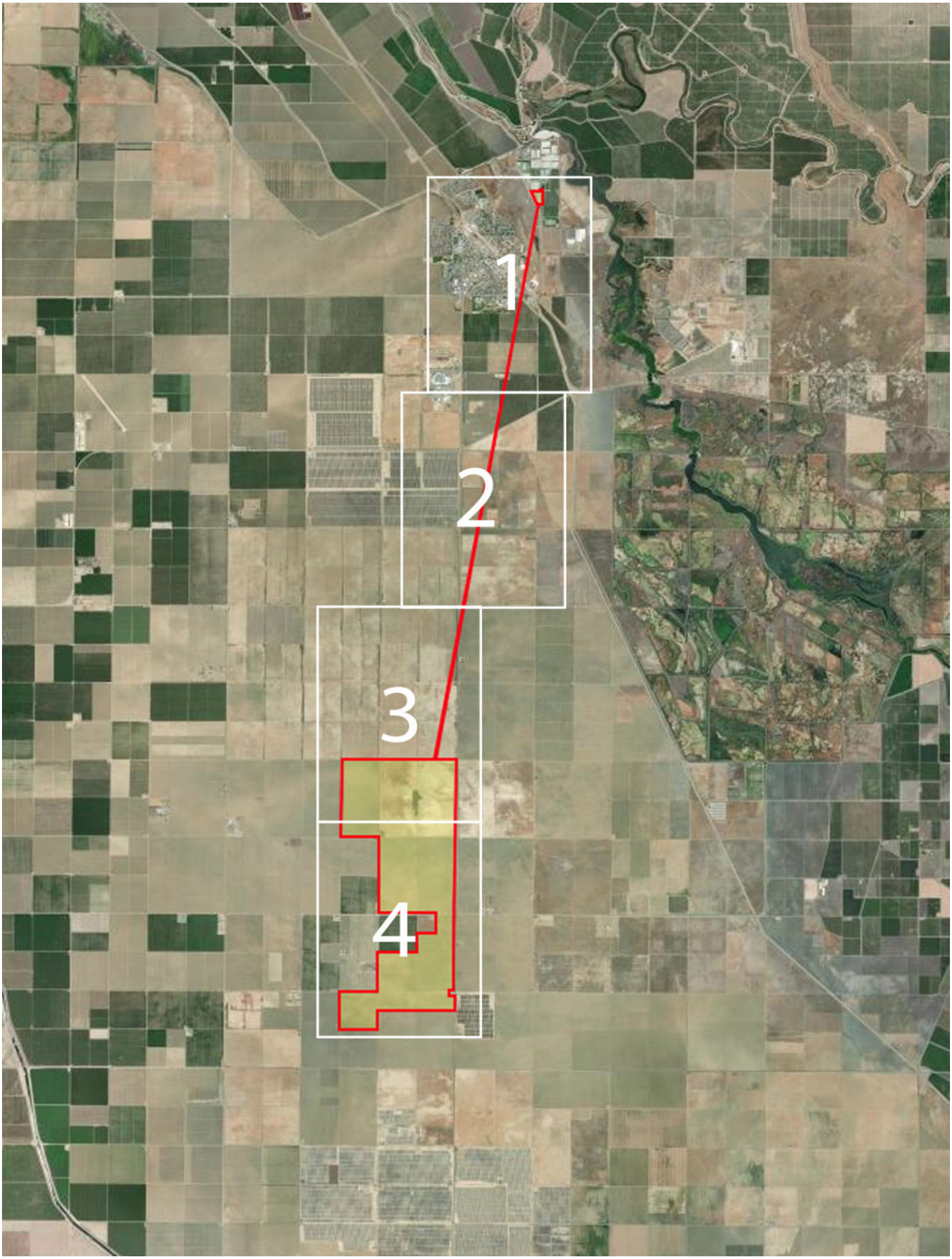
Historical Aerial Photo Grid

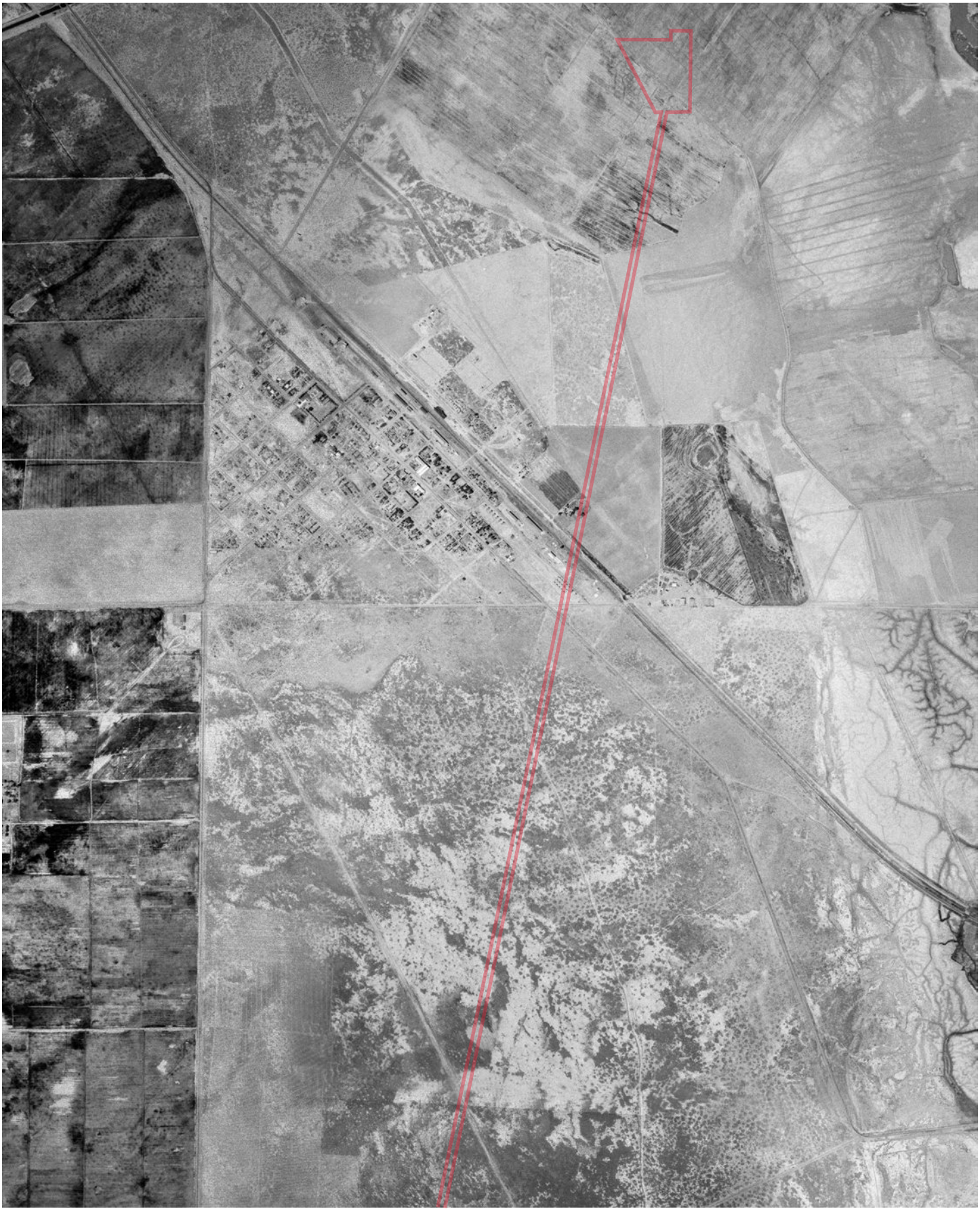


FLIGHT YEAR:
1946

Photo 1

N
W E
S

Scale: 1" = 1,500'

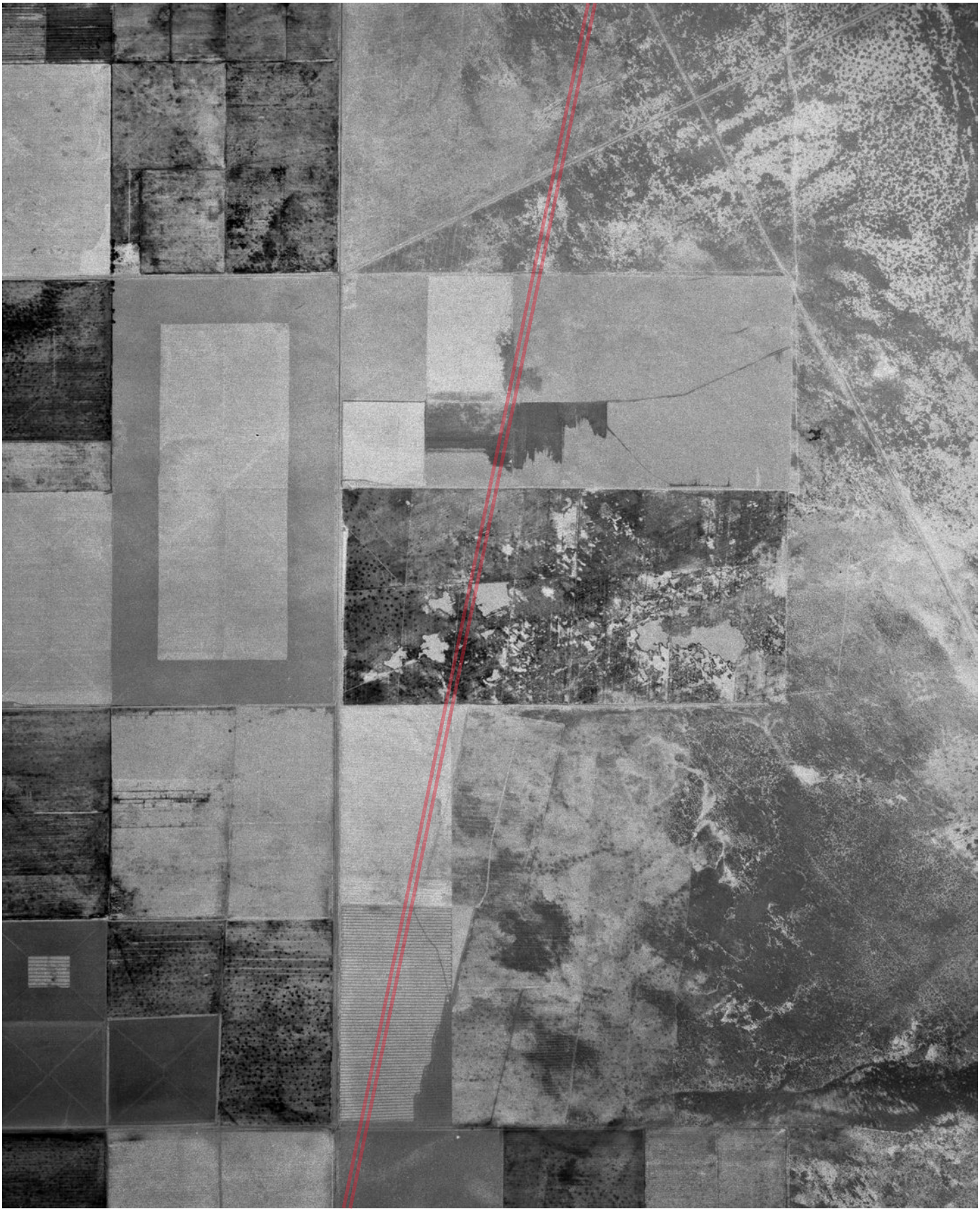


FLIGHT YEAR:
1946

Photo 2

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1946

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1946

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1955

Photo 1

N
W E
S

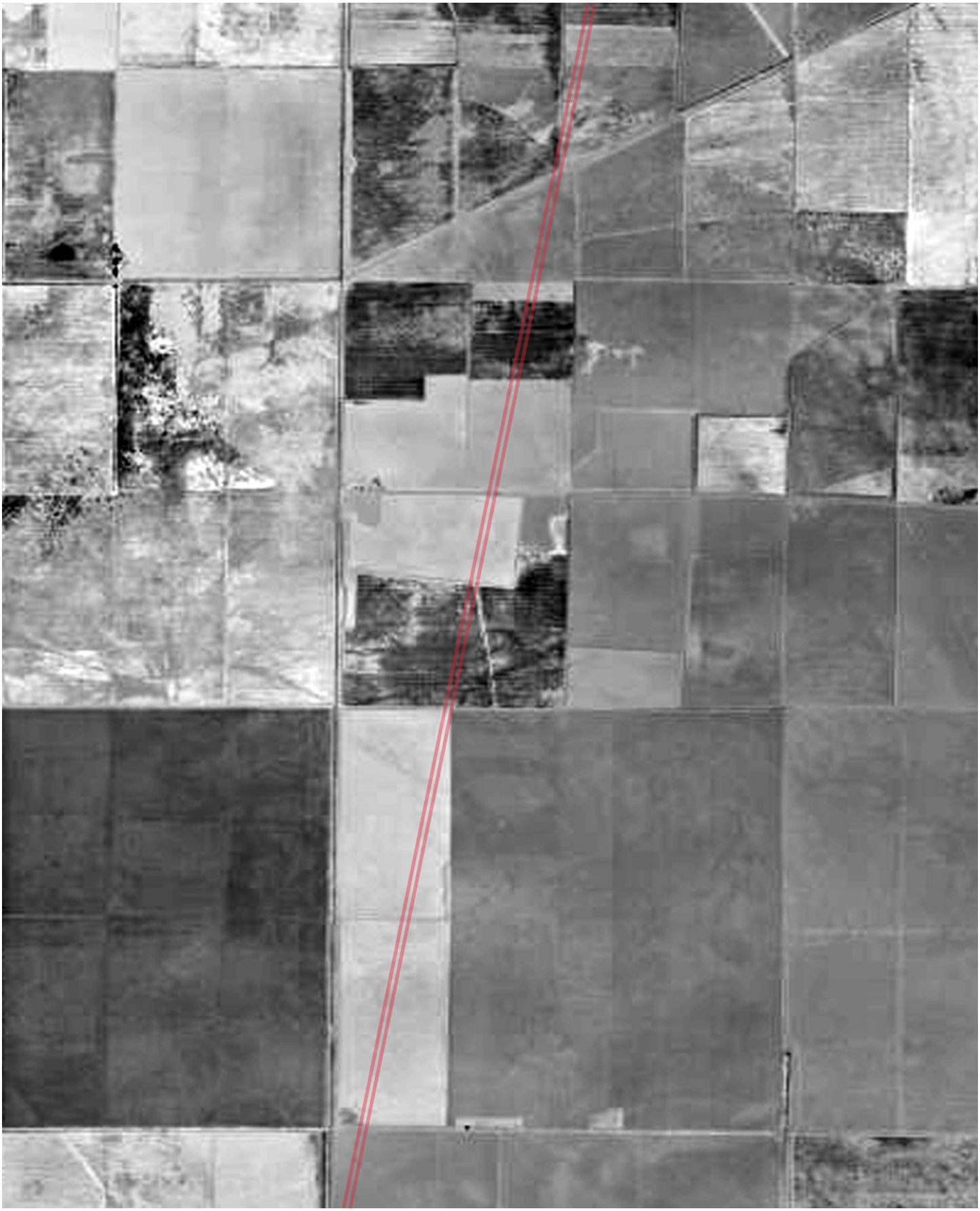
Scale: 1" = 1,500'

FLIGHT YEAR:
1955

Photo 2

N
W E
S

Scale: 1" = 1,500'

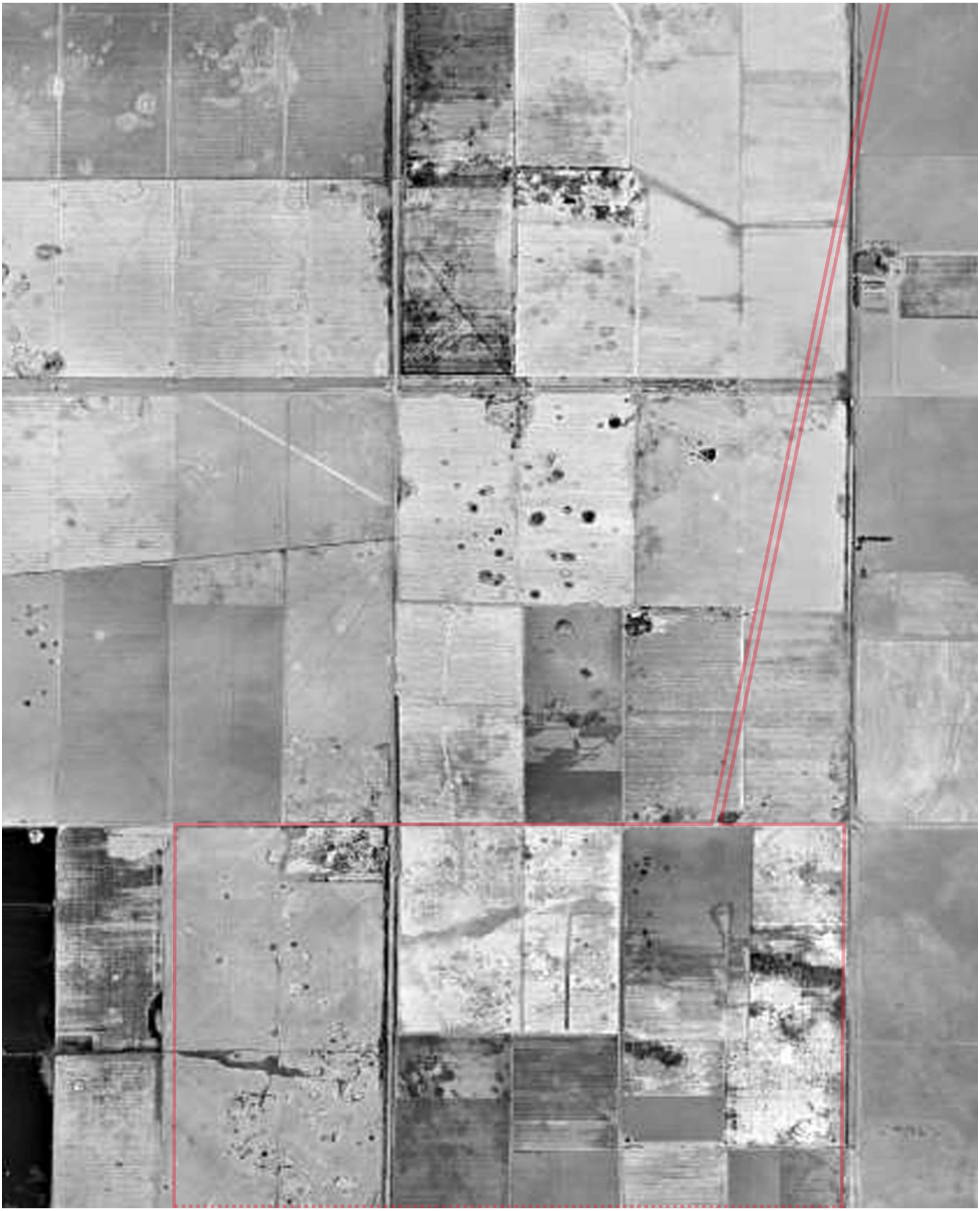


FLIGHT YEAR:
1955

Photo 3

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1955

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1960

Photo 1

N
W E
S

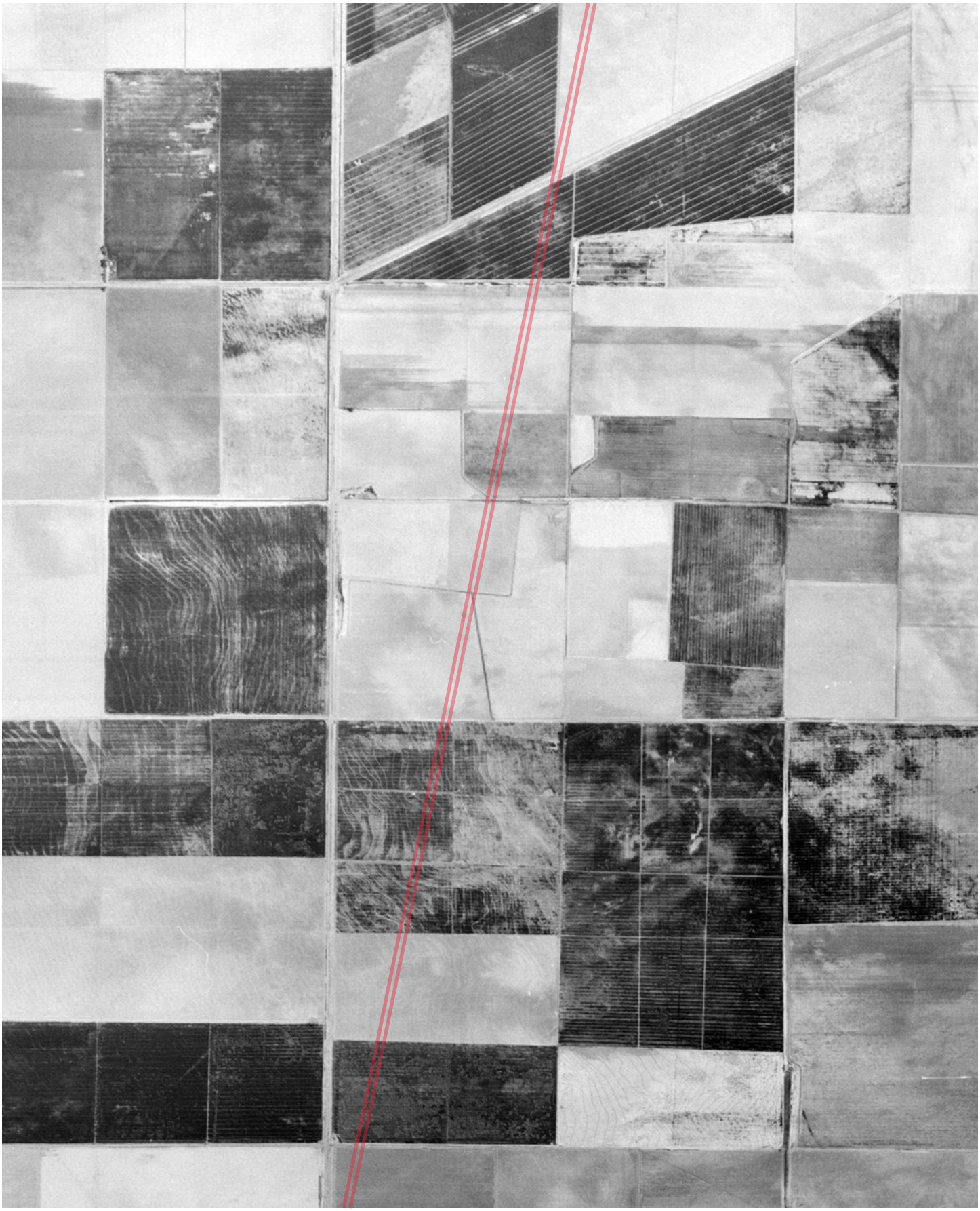
Scale: 1" = 1,500'

FLIGHT YEAR:
1960

Photo 2

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1960

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1960

Photo 4

N
W E
S

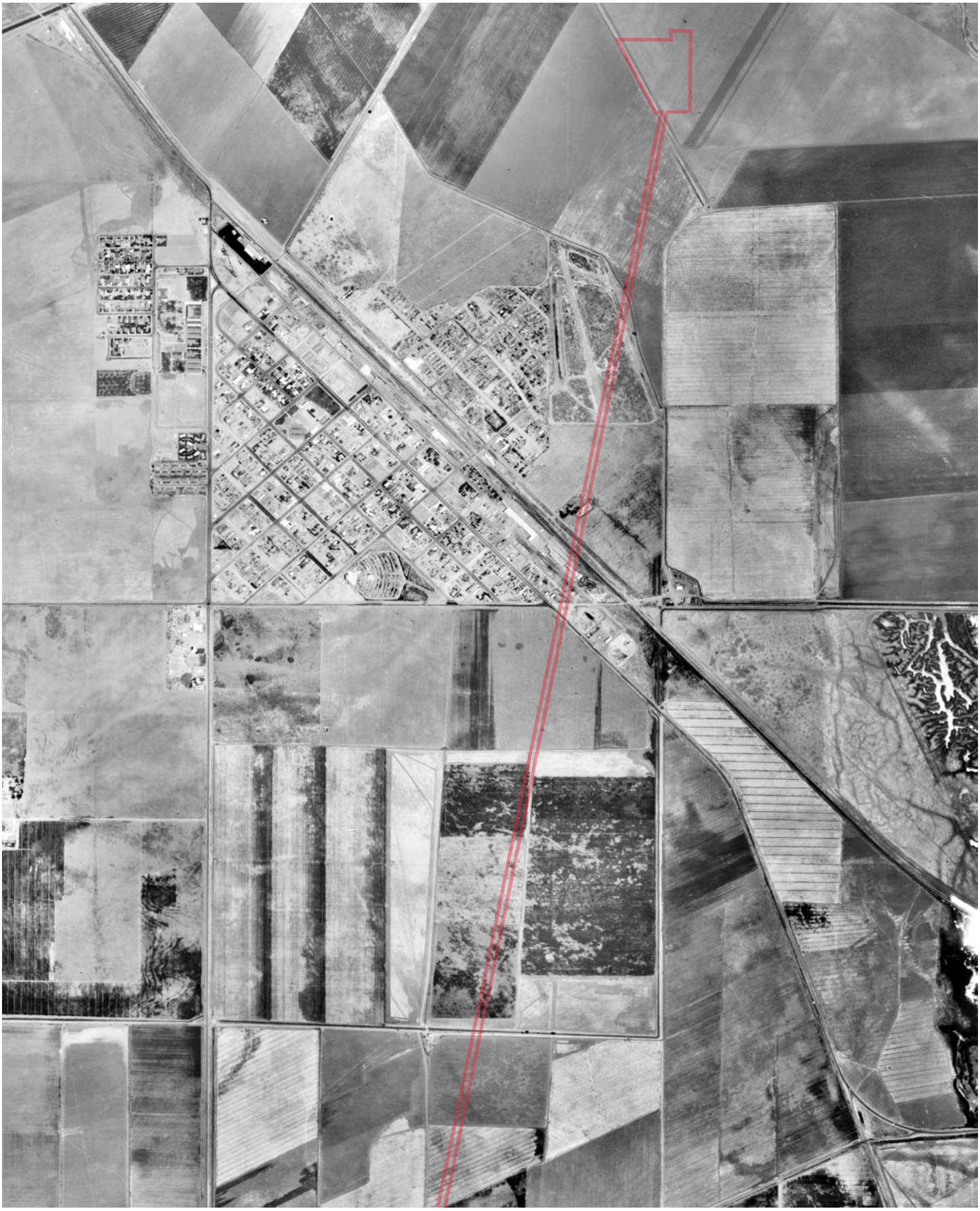
Scale: 1" = 1,500'

FLIGHT YEAR:
1965

Photo 1

N
W E
S

Scale: 1" = 1,500'

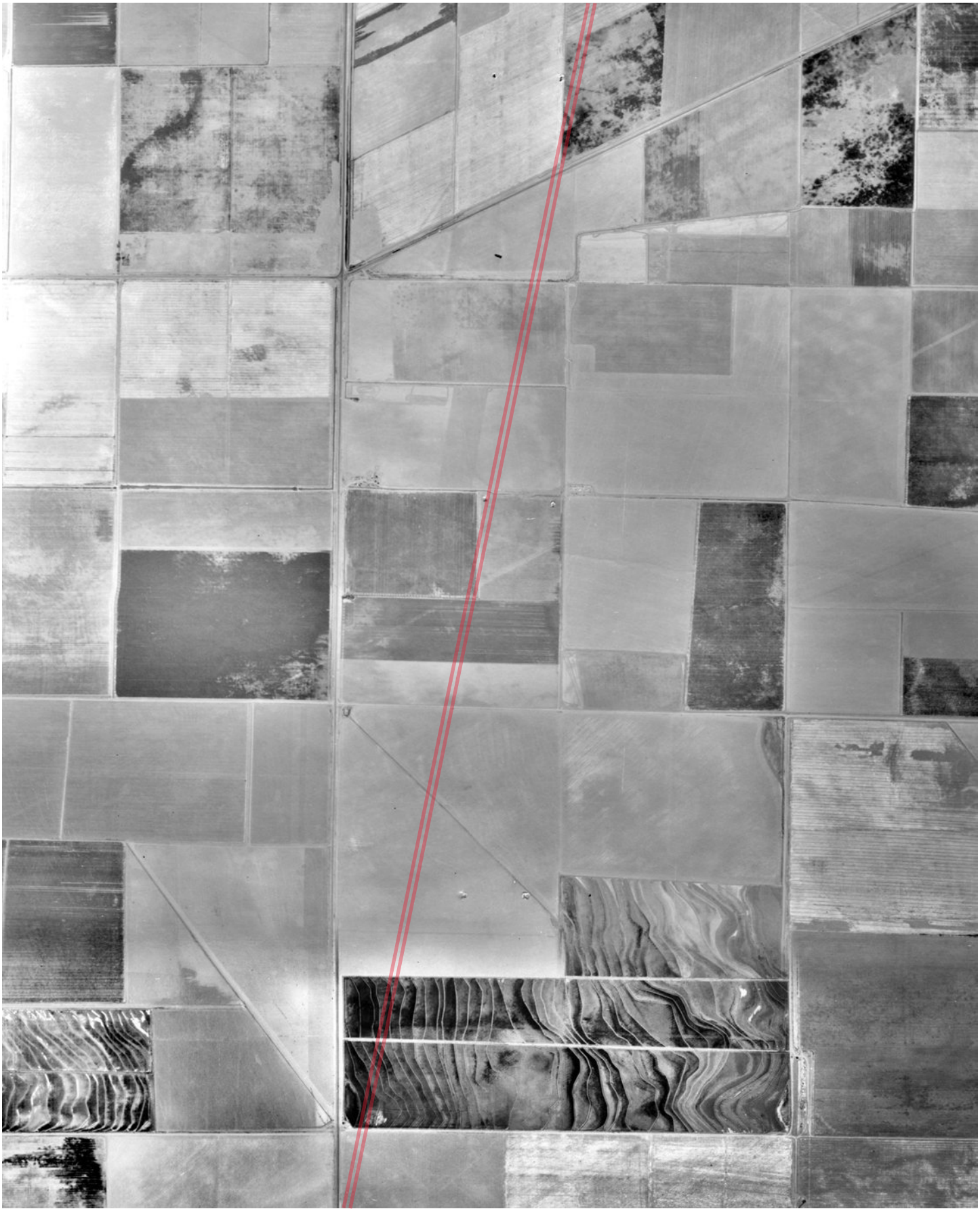


FLIGHT YEAR:
1965

Photo 2

N
W E
S

Scale: 1" = 1,500'

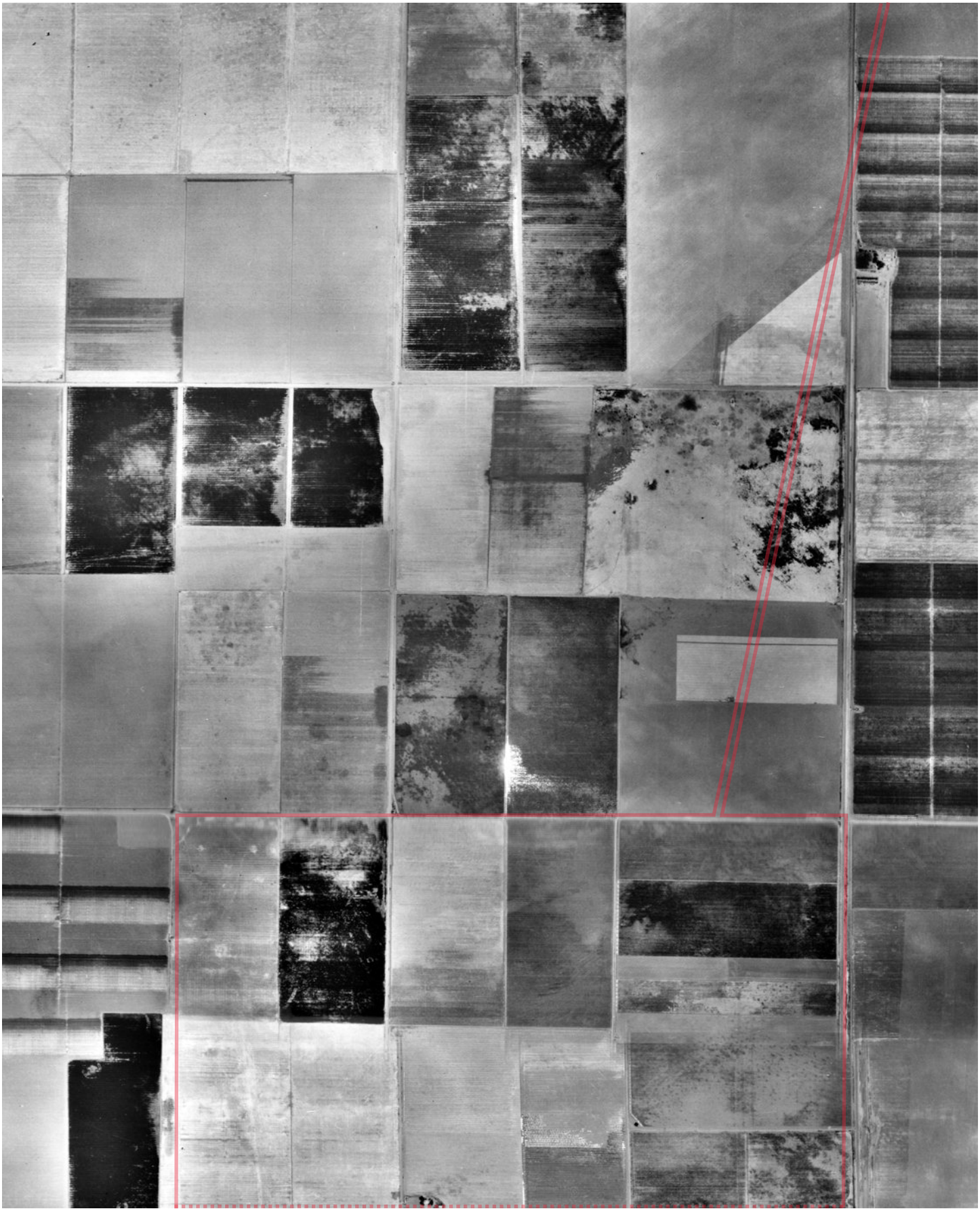


FLIGHT YEAR:
1965

Photo 3

N
W E
S

Scale: 1" = 1,500'

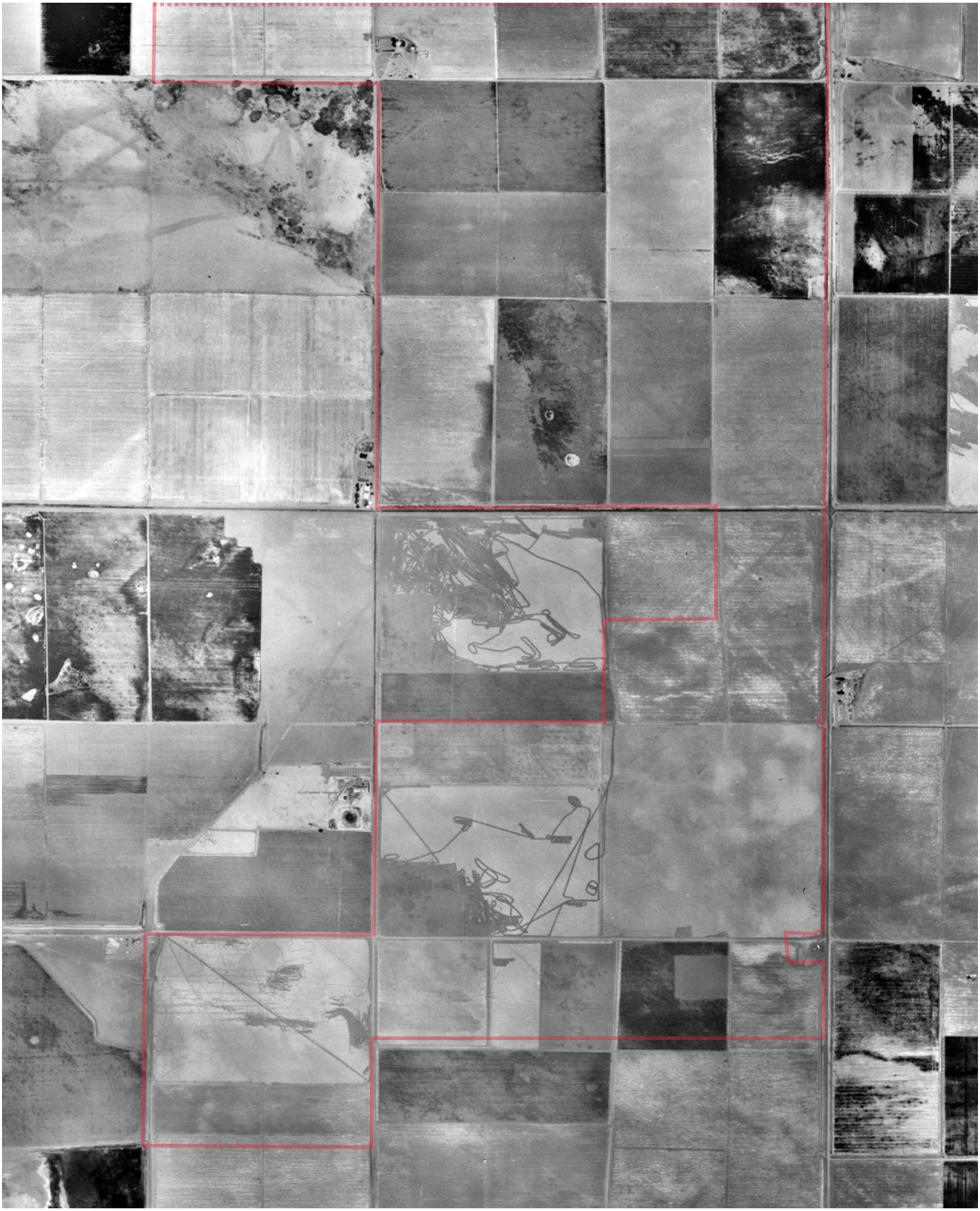


FLIGHT YEAR:
1965

Photo 4

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1971

Photo 1

N
W E
S

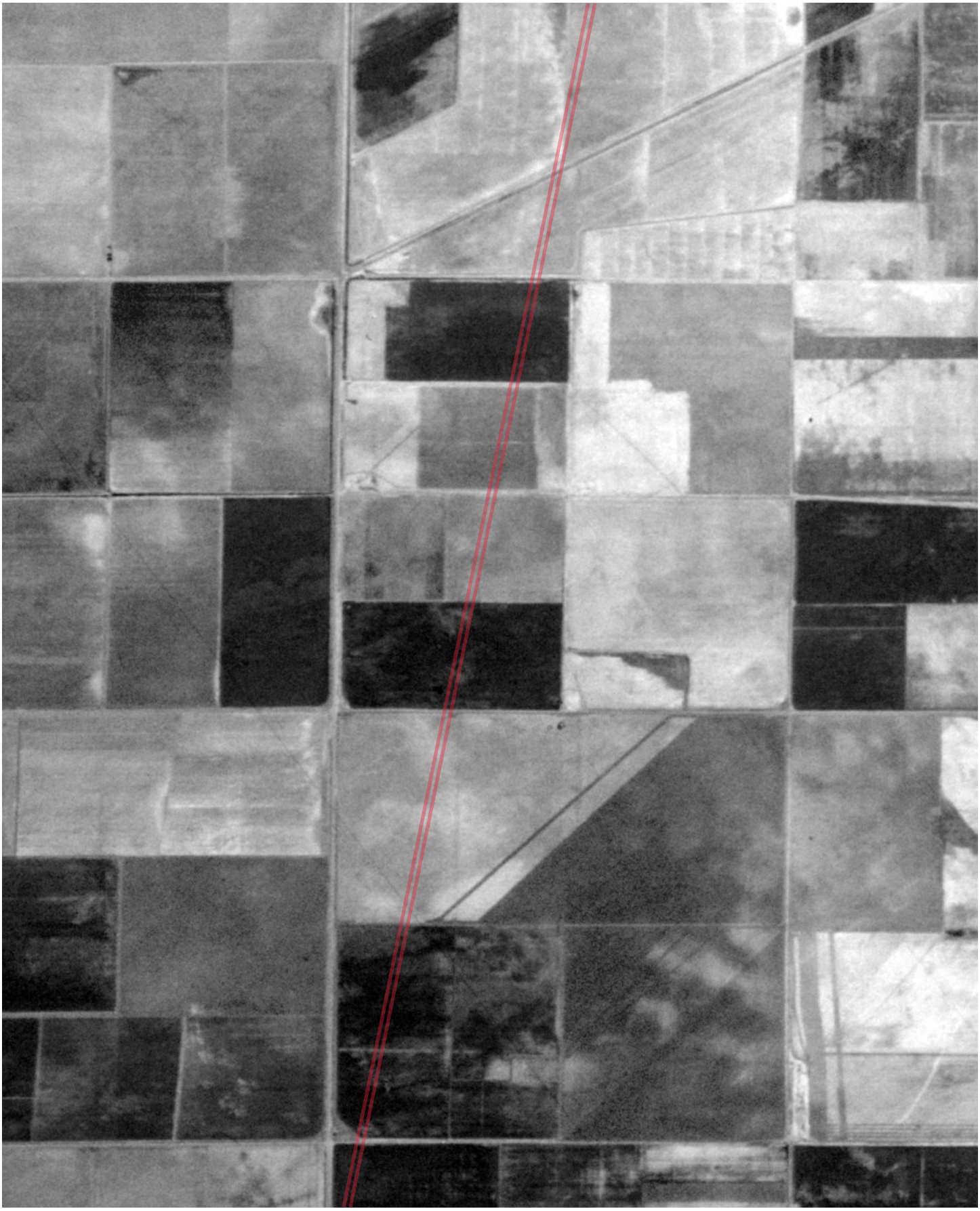
Scale: 1" = 1,500'

FLIGHT YEAR:
1971

Photo 2

N
W E
S

Scale: 1" = 1,500'

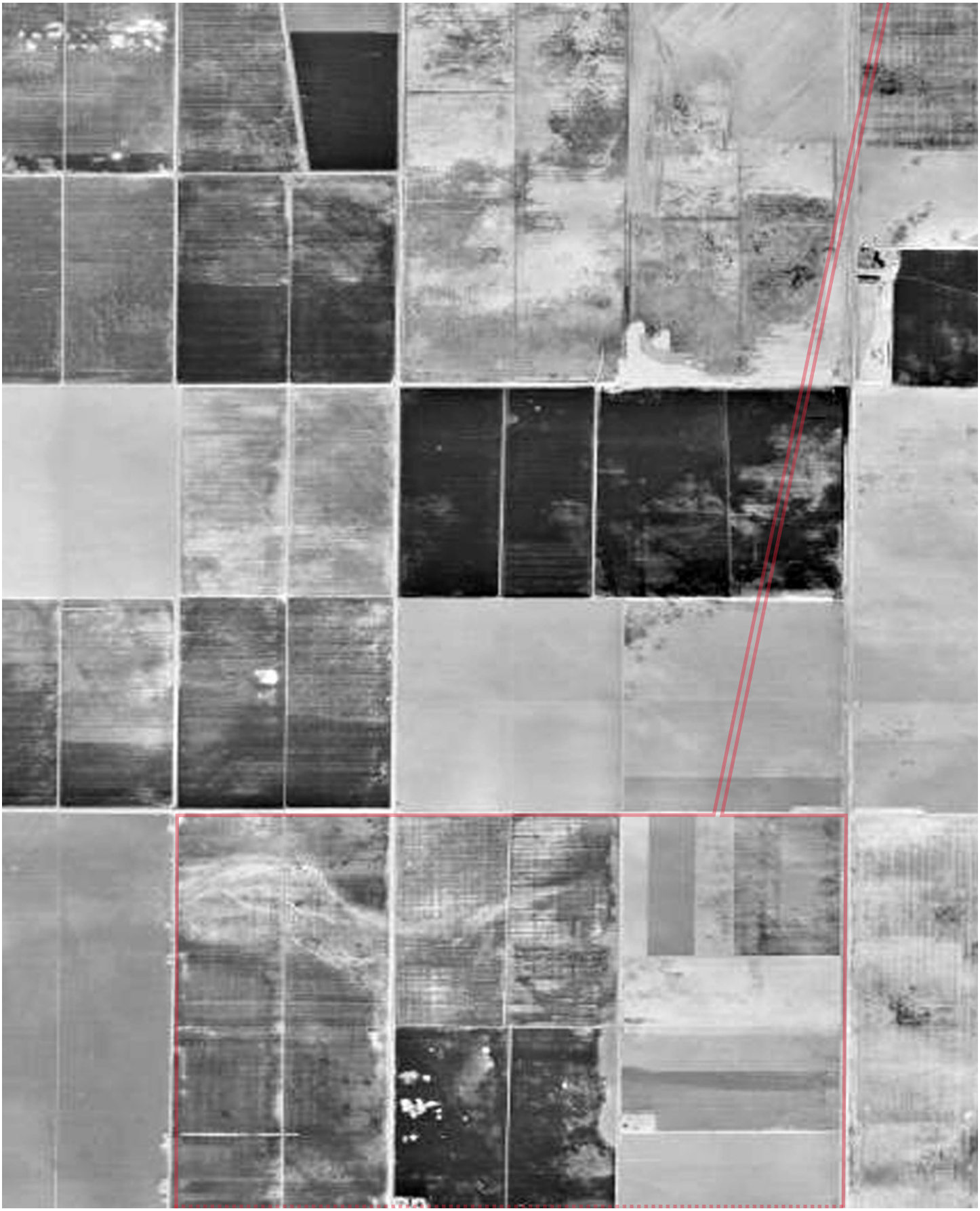


FLIGHT YEAR:
1971

Photo 3

N
W E
S

Scale: 1" = 1,500'

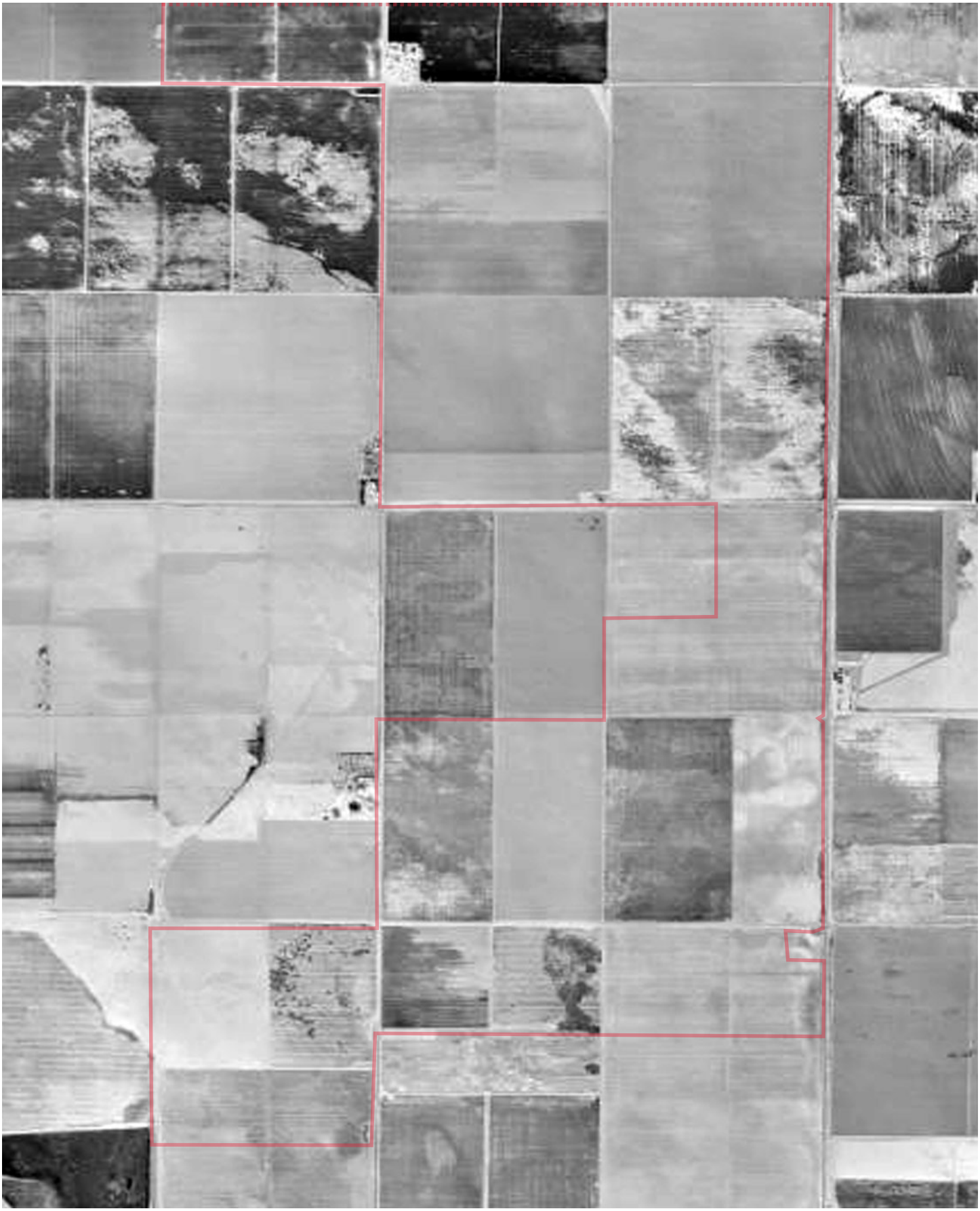


FLIGHT YEAR:
1971

Photo 4

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1975

Photo 1

N
W E
S

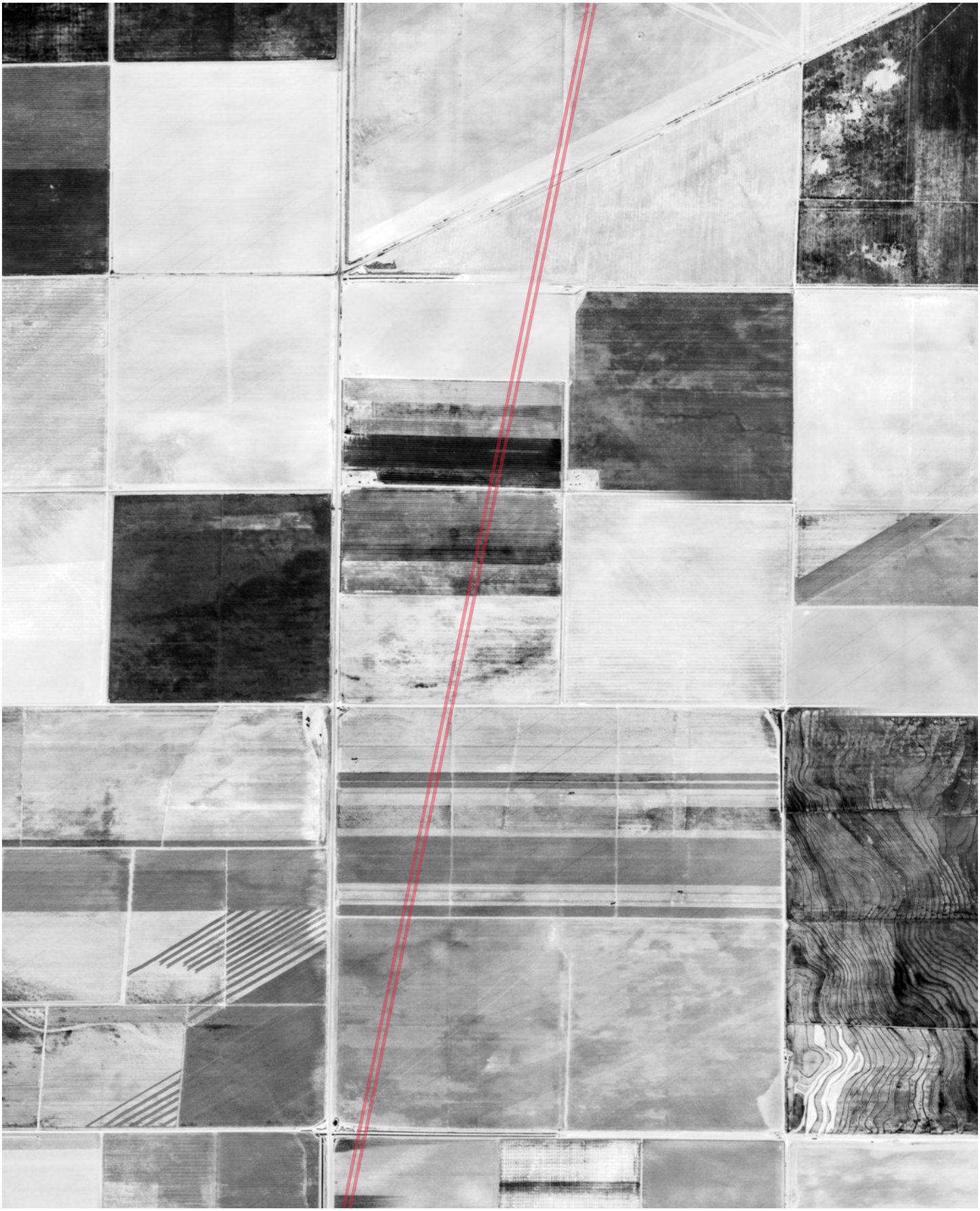
Scale: 1" = 1,500'

FLIGHT YEAR:
1975

Photo 2

N
W E
S

Scale: 1" = 1,500'

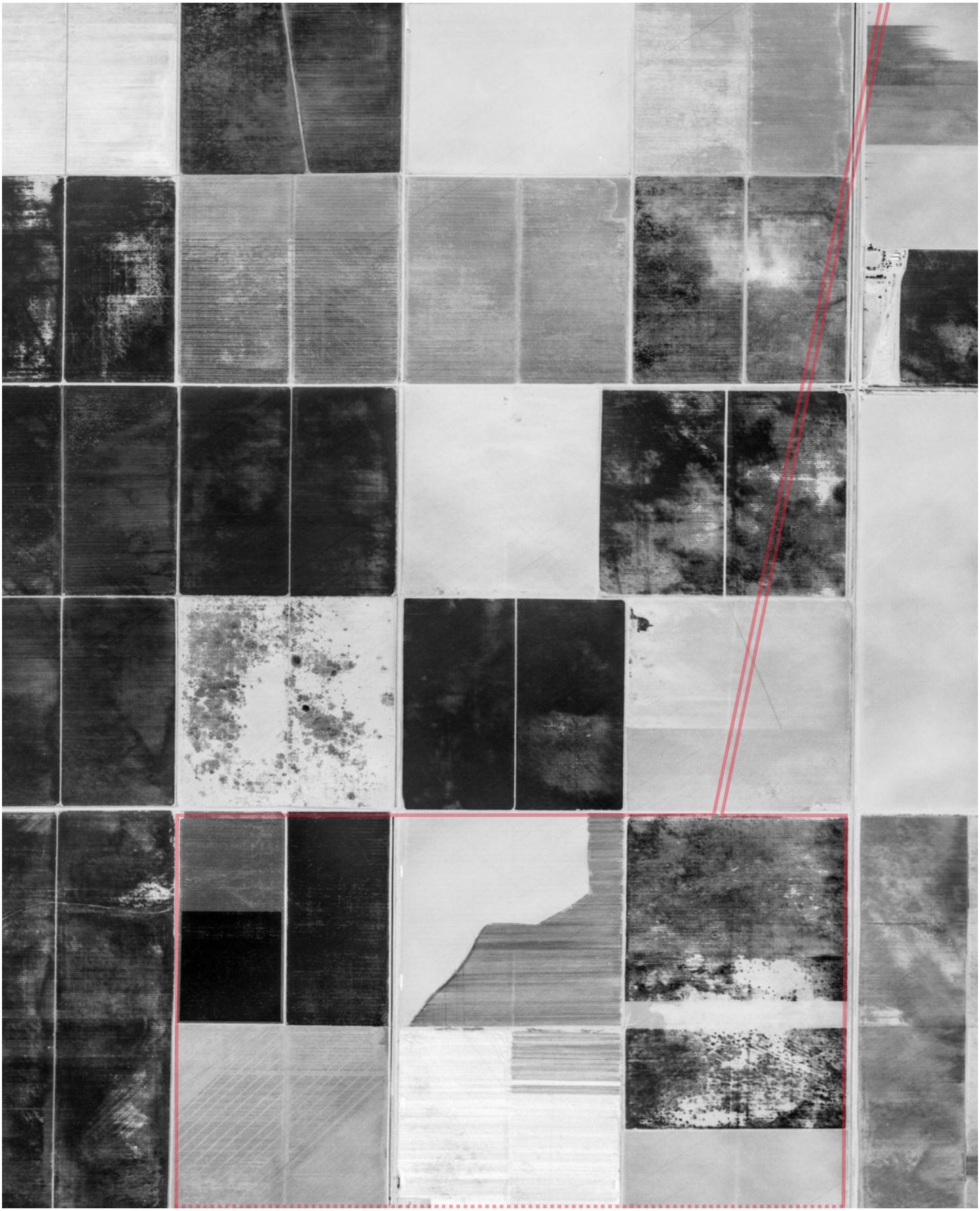


FLIGHT YEAR:
1975

Photo 3

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1975

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1978

Photo 1

N
W E
S

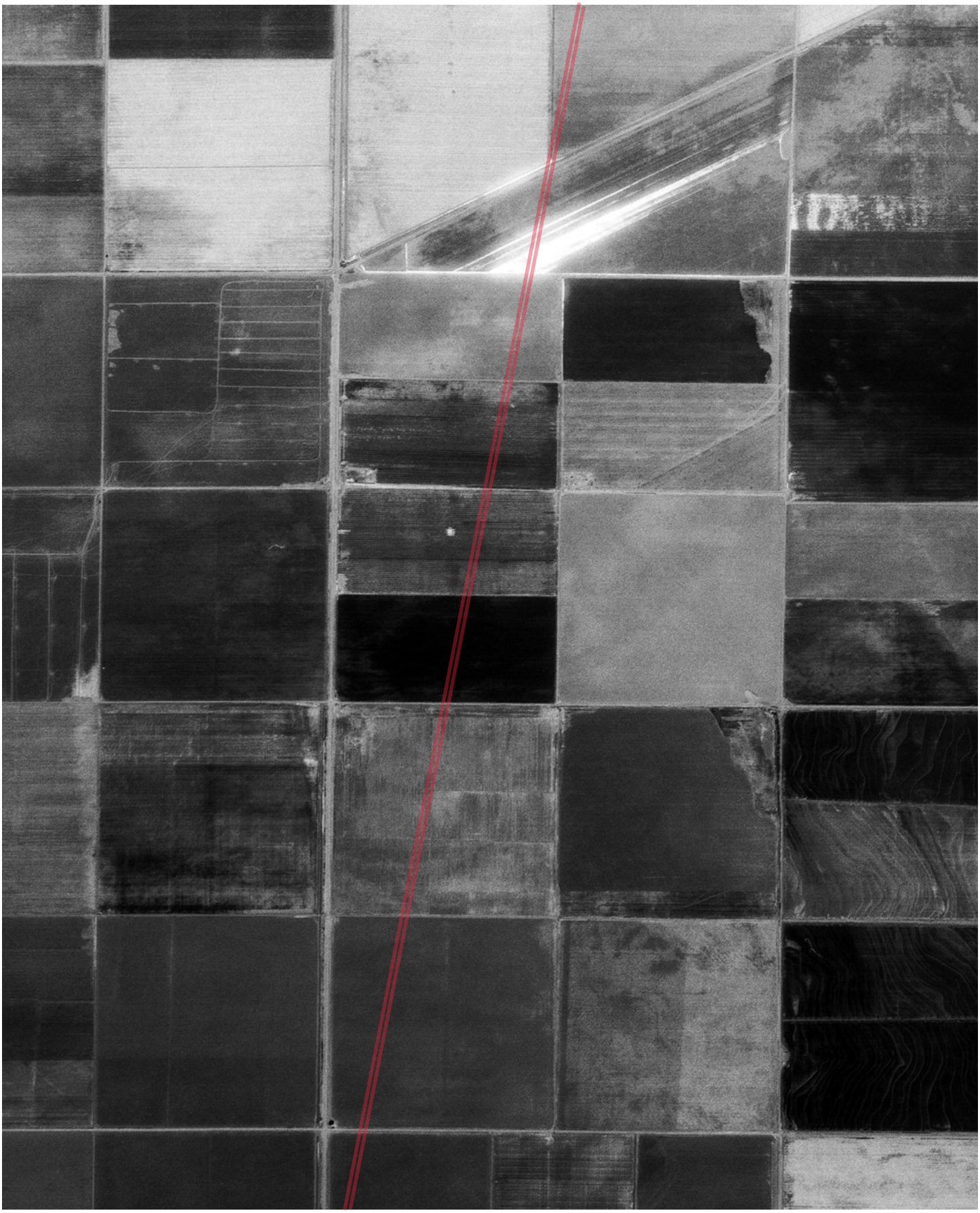
Scale: 1" = 1,500'

FLIGHT YEAR:
1978

Photo 2

N
W E
S

Scale: 1" = 1,500'

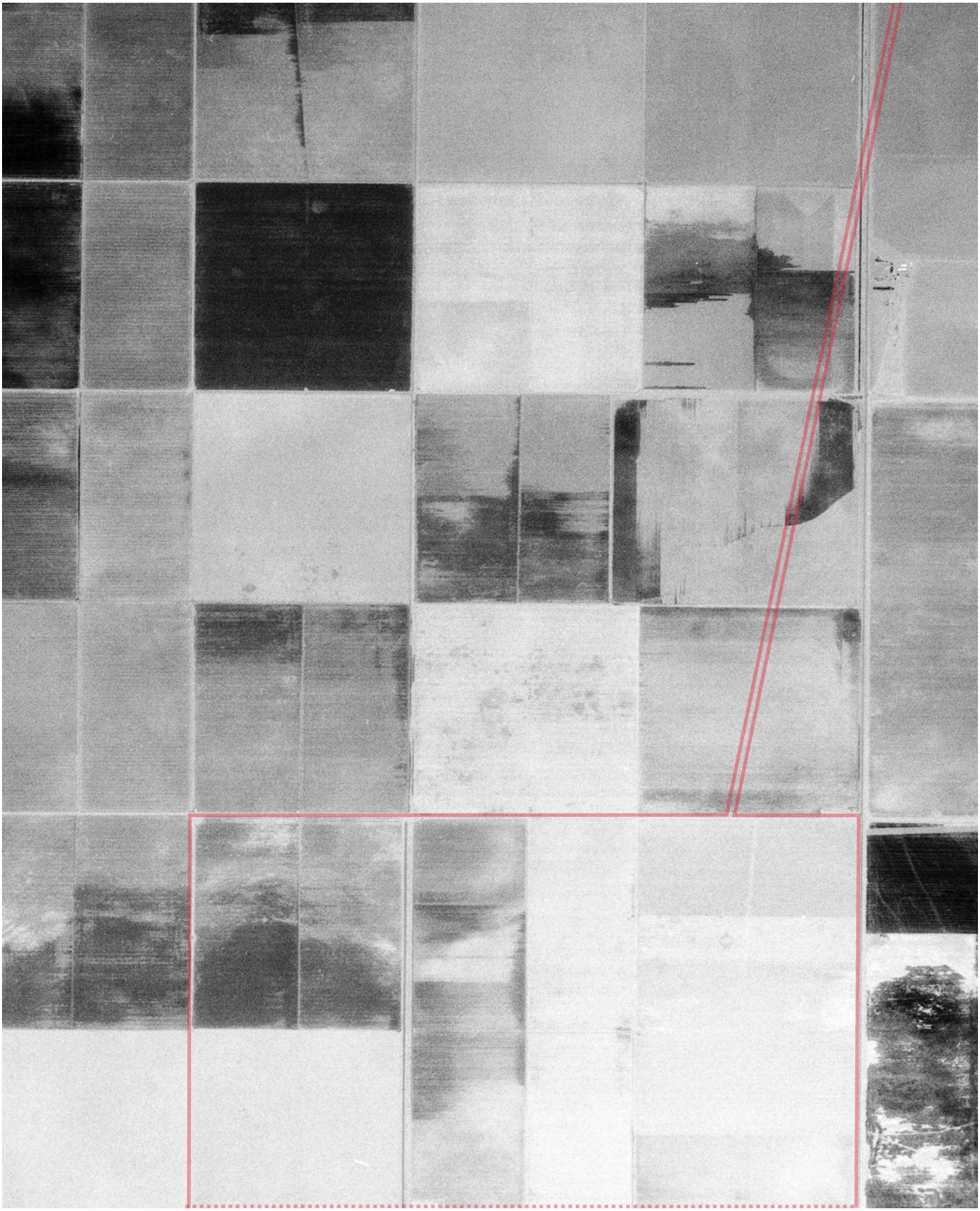


FLIGHT YEAR:
1978

Photo 3

N
W E
S

Scale: 1" = 1,500'

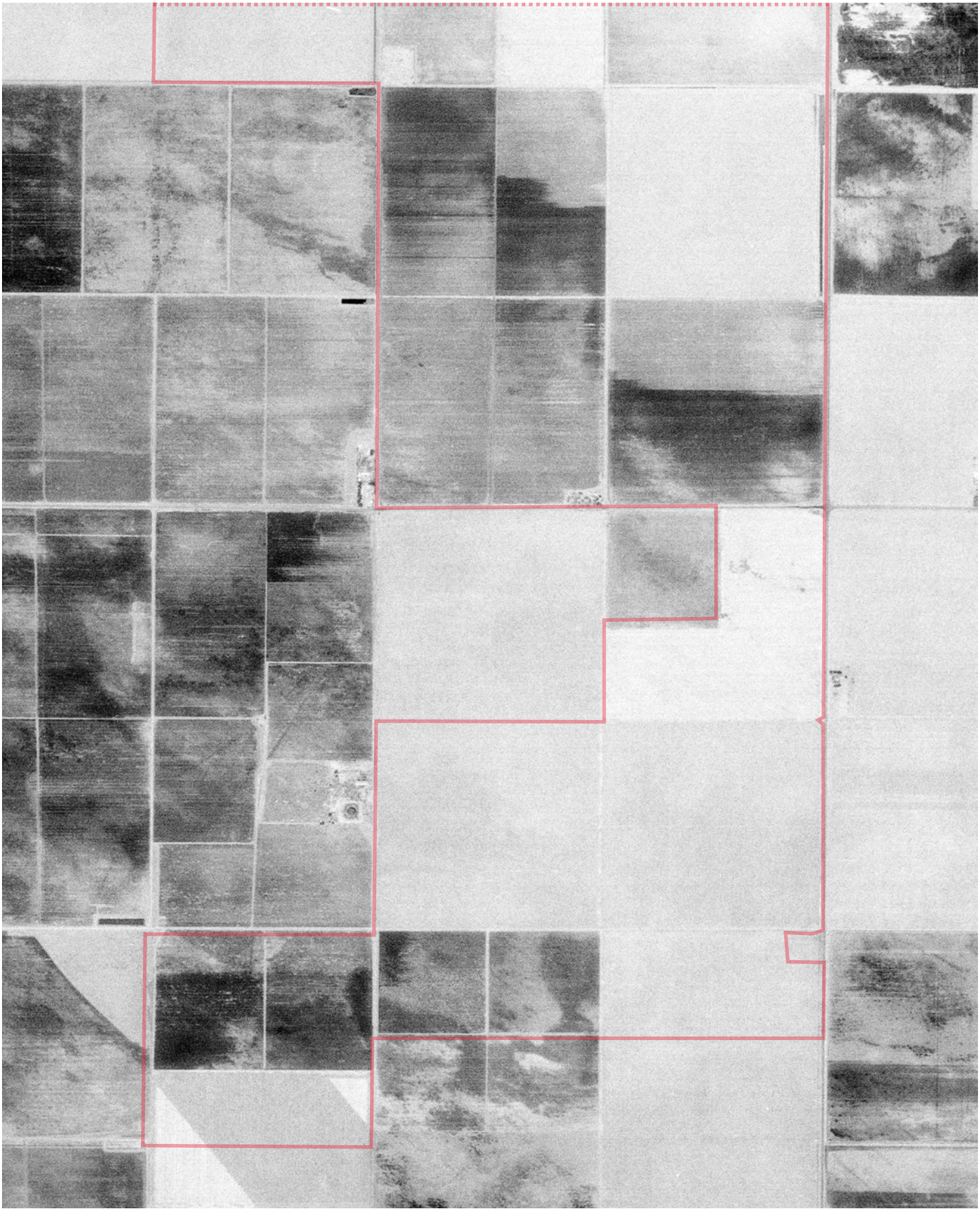


FLIGHT YEAR:
1978

Photo 4

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1982

Photo 1

N
W E
S

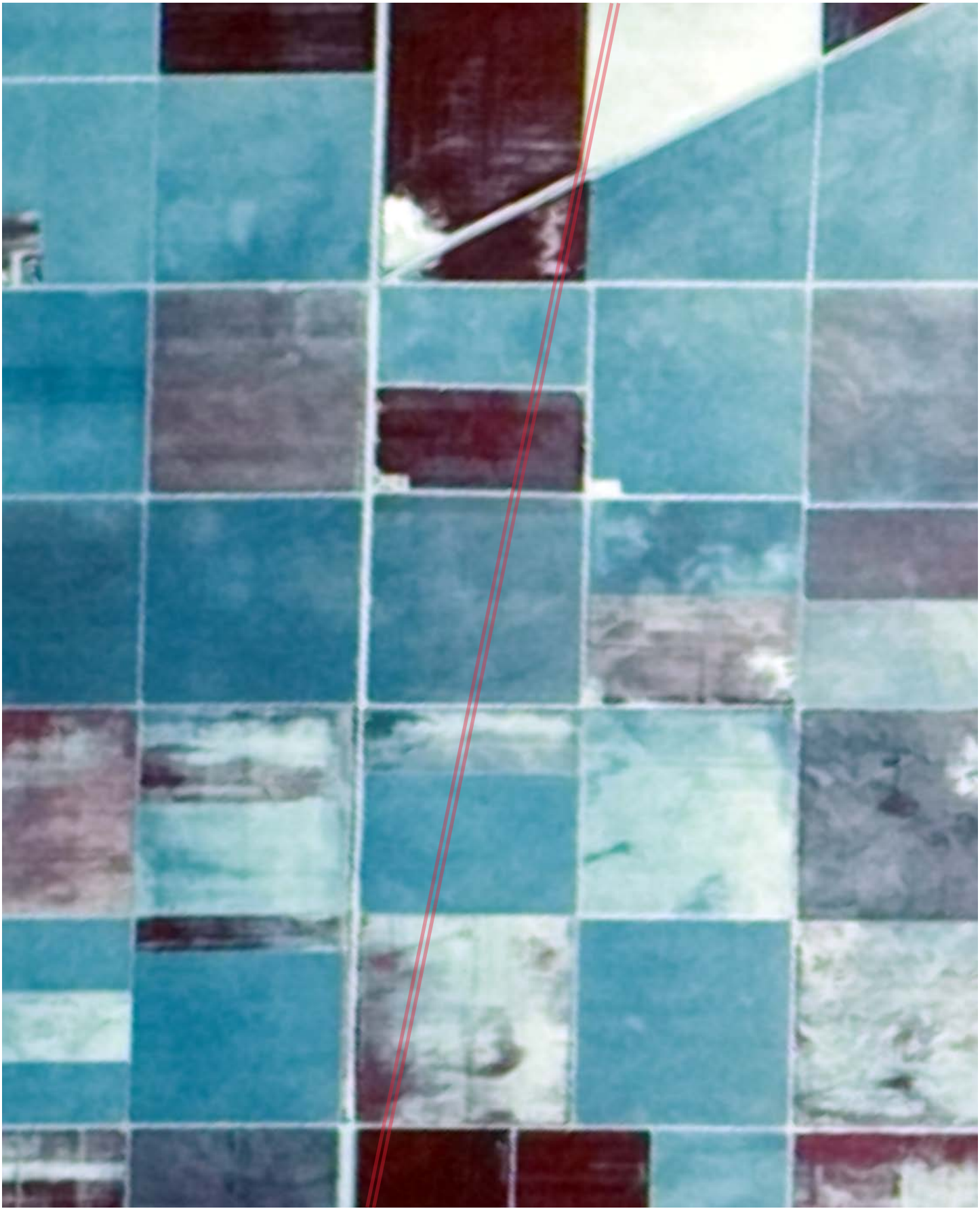
Scale: 1" = 1,500'

FLIGHT YEAR:
1982

Photo 2

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1982

Photo 3

N
W E
S

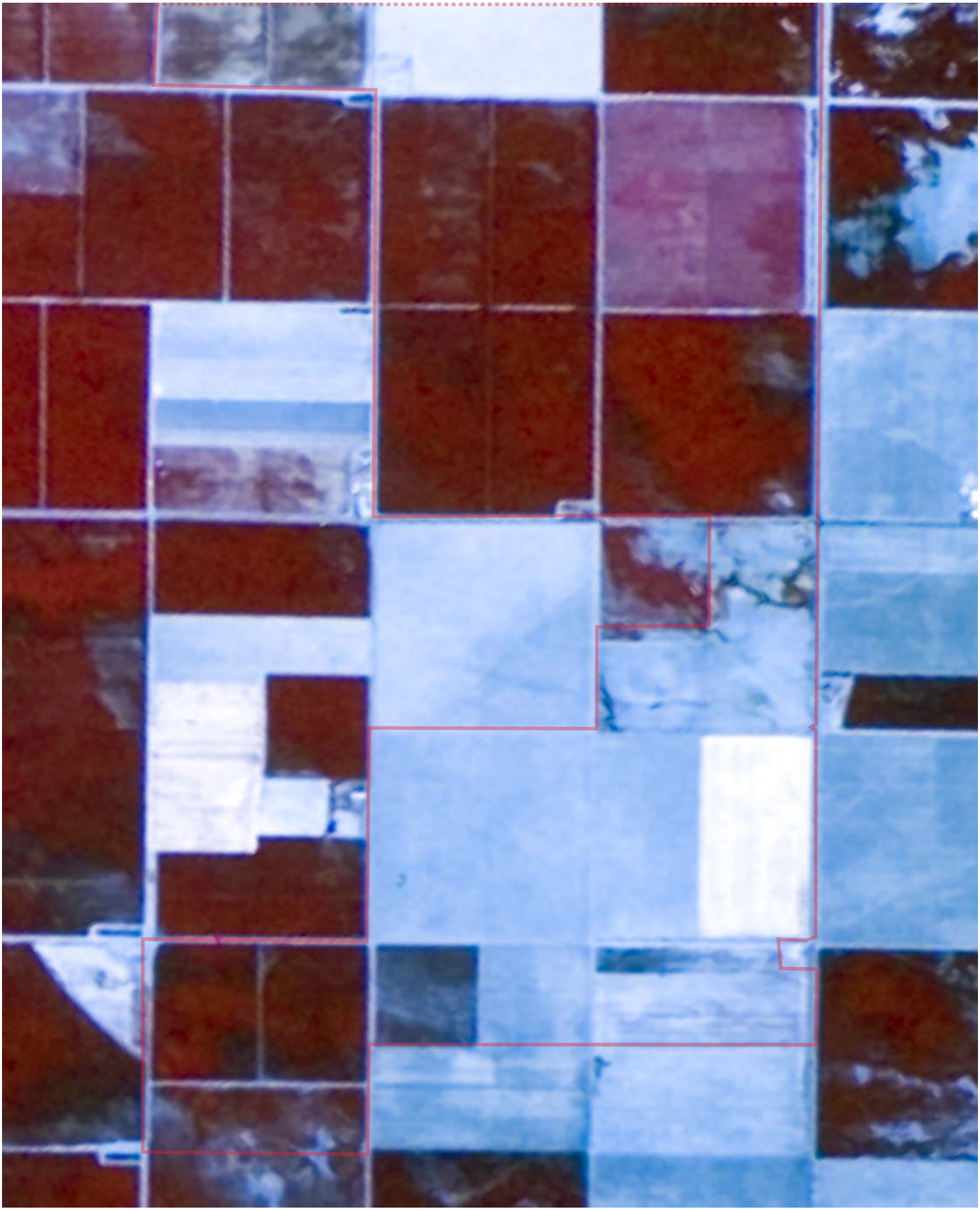
Scale: 1" = 1,500'

FLIGHT YEAR:
1982

Photo 4

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1985

Photo 1

N
W E
S

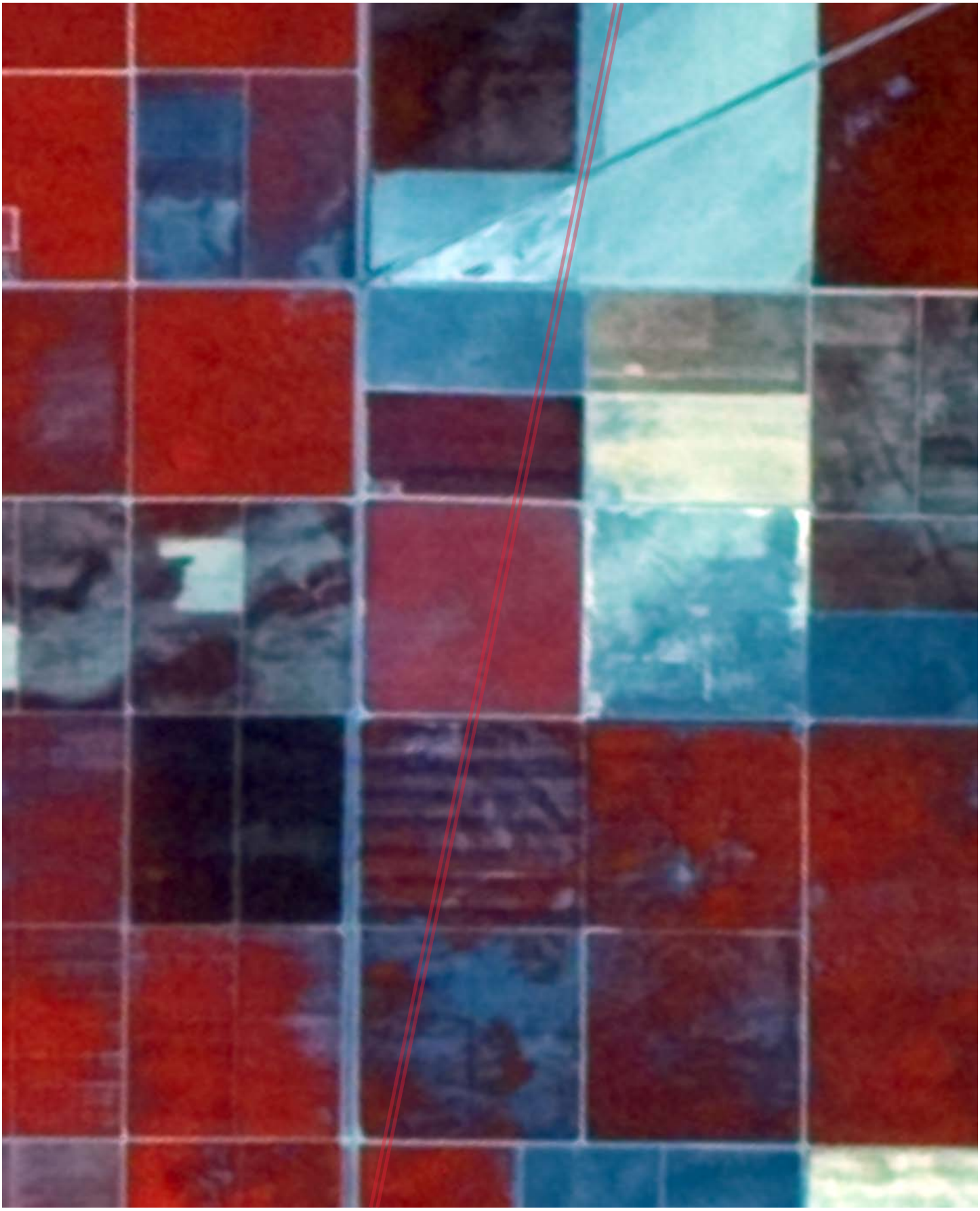
Scale: 1" = 1,500'

FLIGHT YEAR:
1985

Photo 2

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1985

Photo 3

N
W E
S

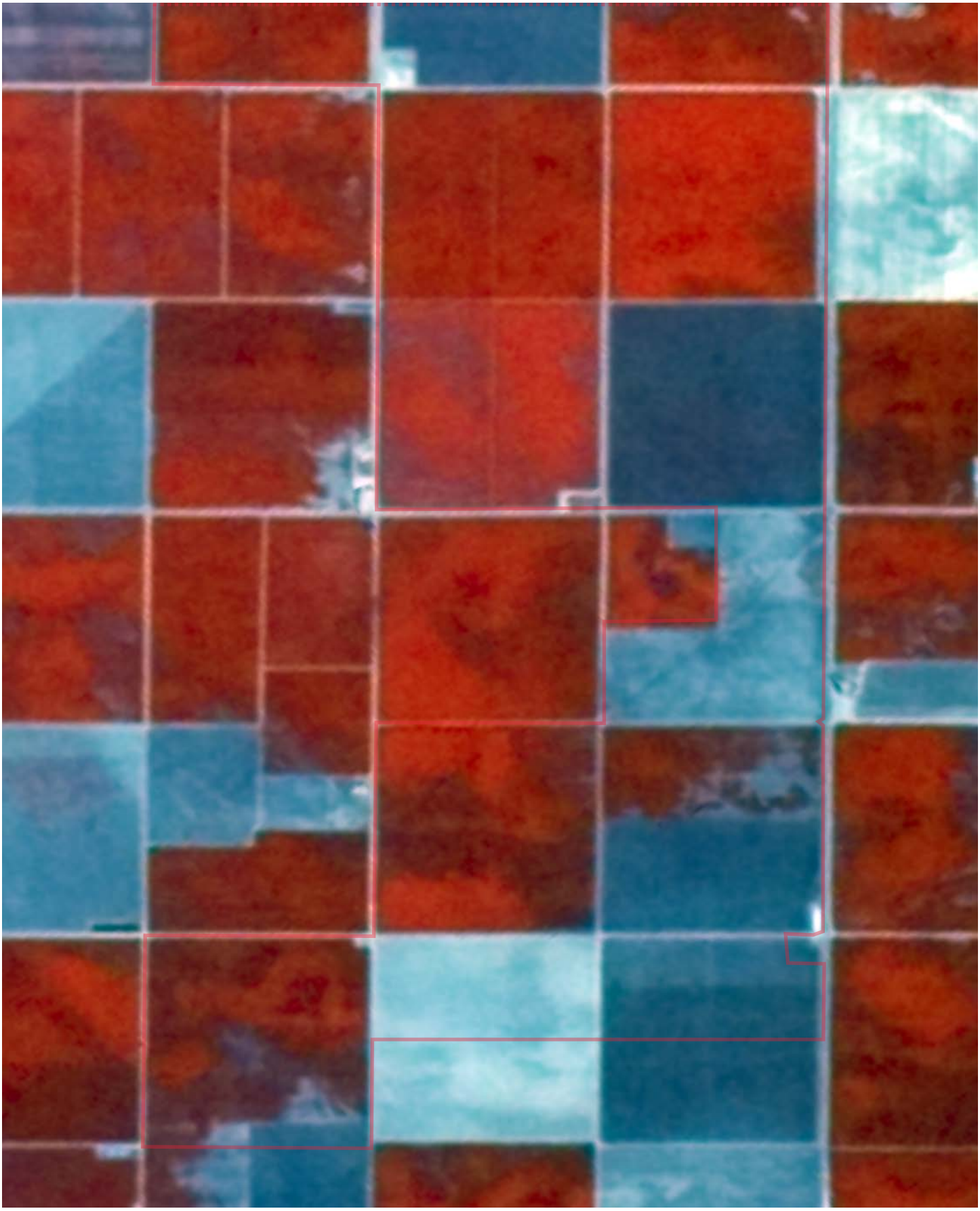
Scale: 1" = 1,500'

FLIGHT YEAR:
1985

Photo 4

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1987

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1987

Photo 2

N
W E
S

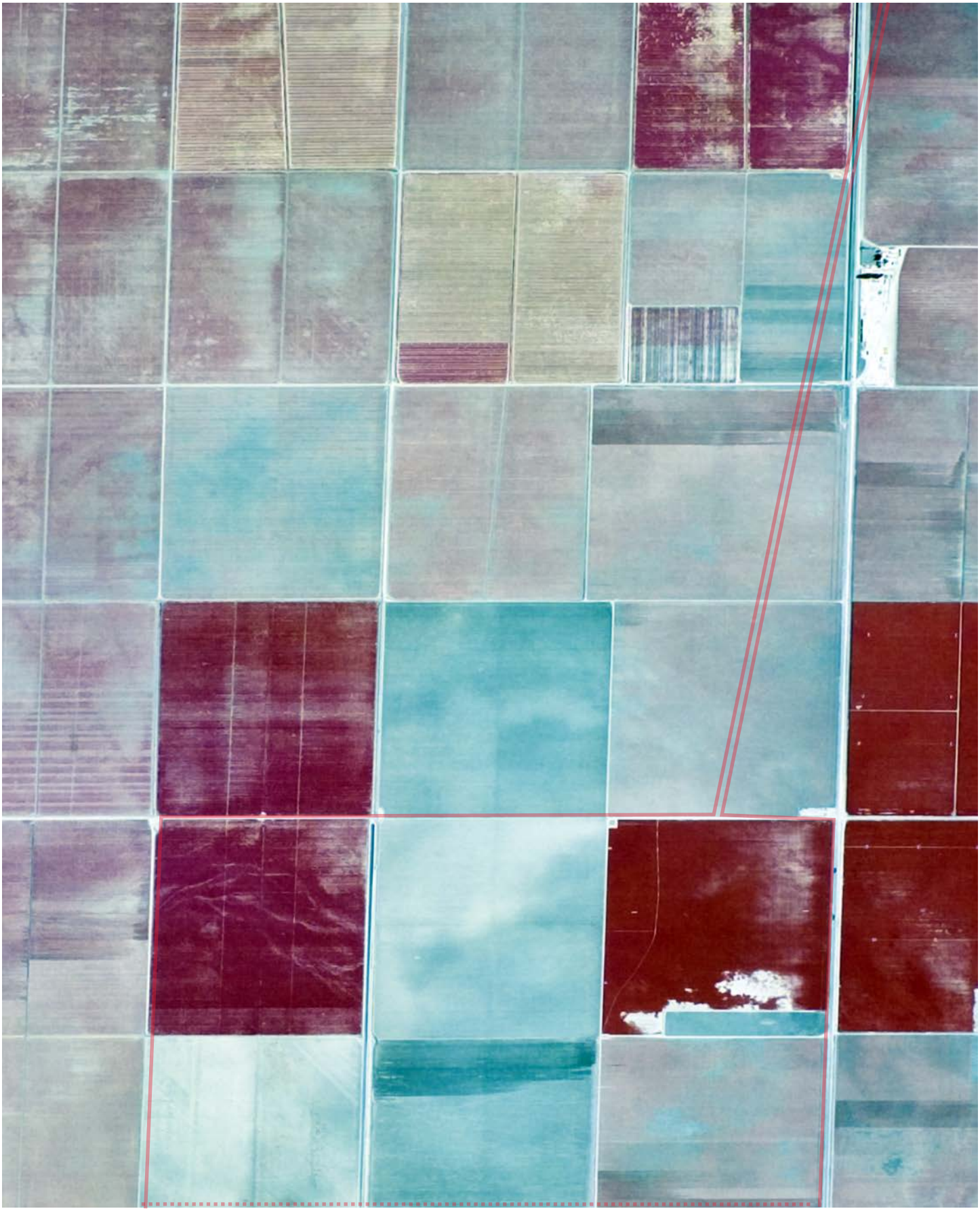
Scale: 1" = 1,500'

FLIGHT YEAR:
1987

Photo 3

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1987

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1993

Photo 1

N
W E
S

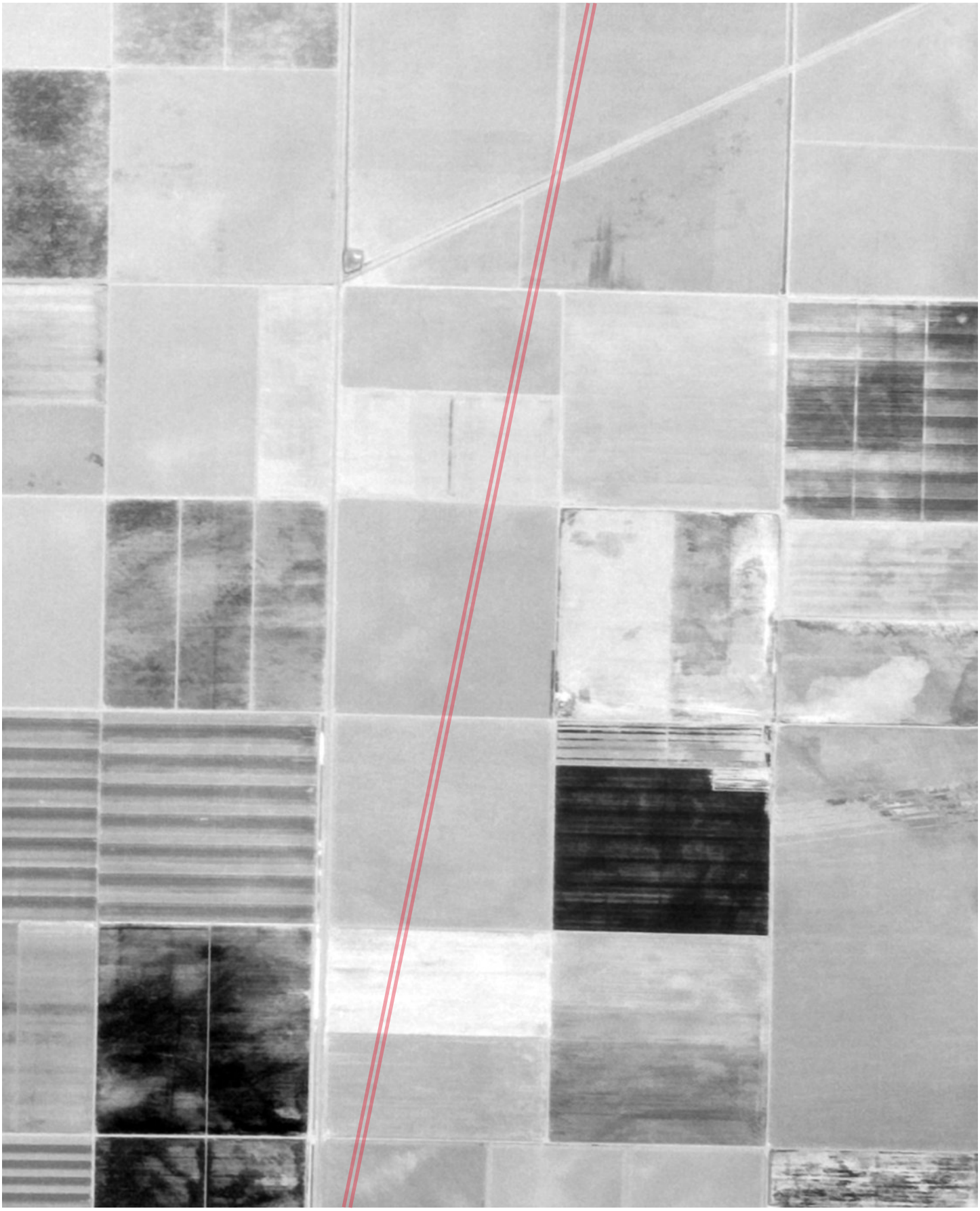
Scale: 1" = 1,500'

FLIGHT YEAR:
1993

Photo 2

N
W E
S

Scale: 1" = 1,500'

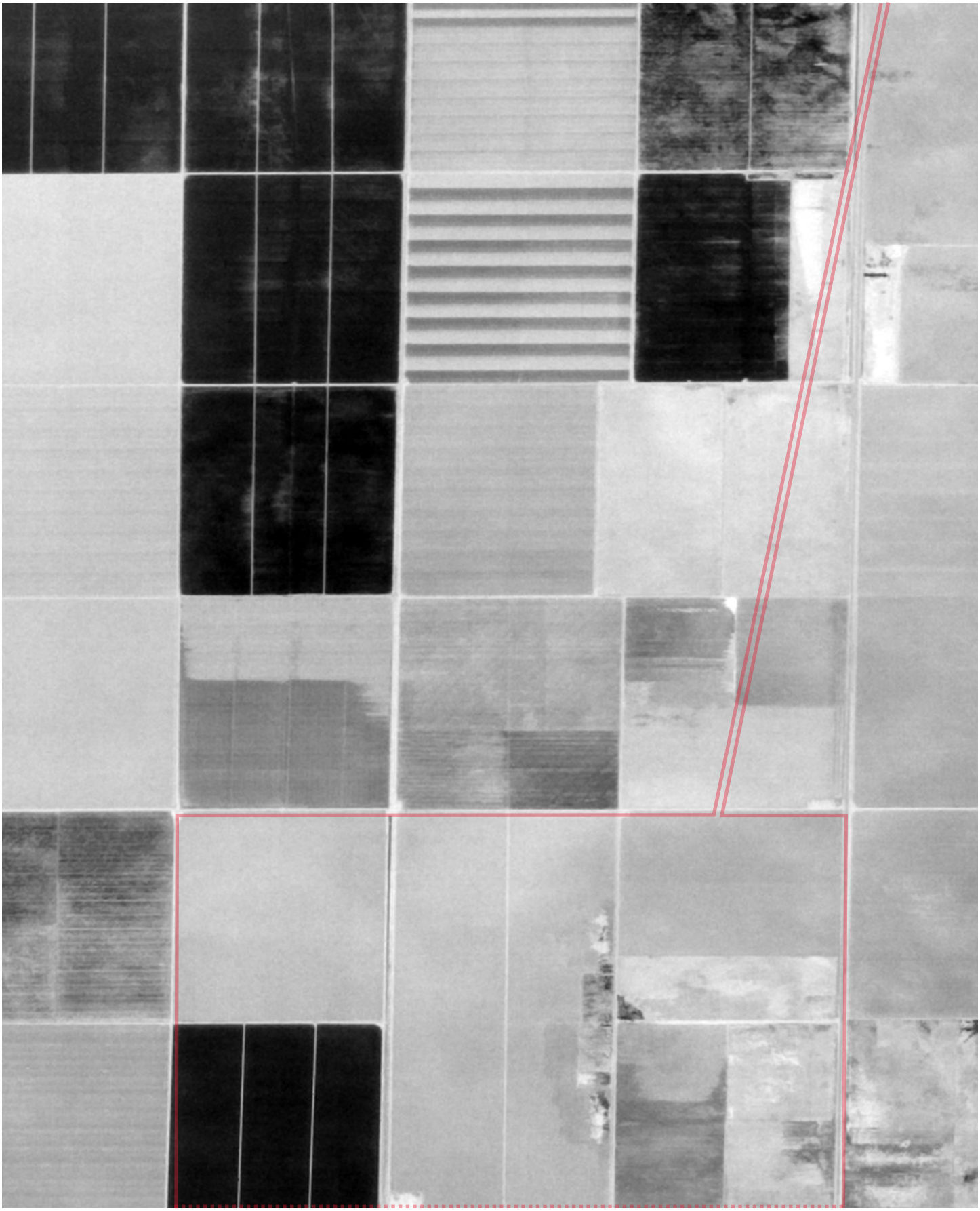


FLIGHT YEAR:
1993

Photo 3

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1993

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1995

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1995

Photo 2

N
W E
S

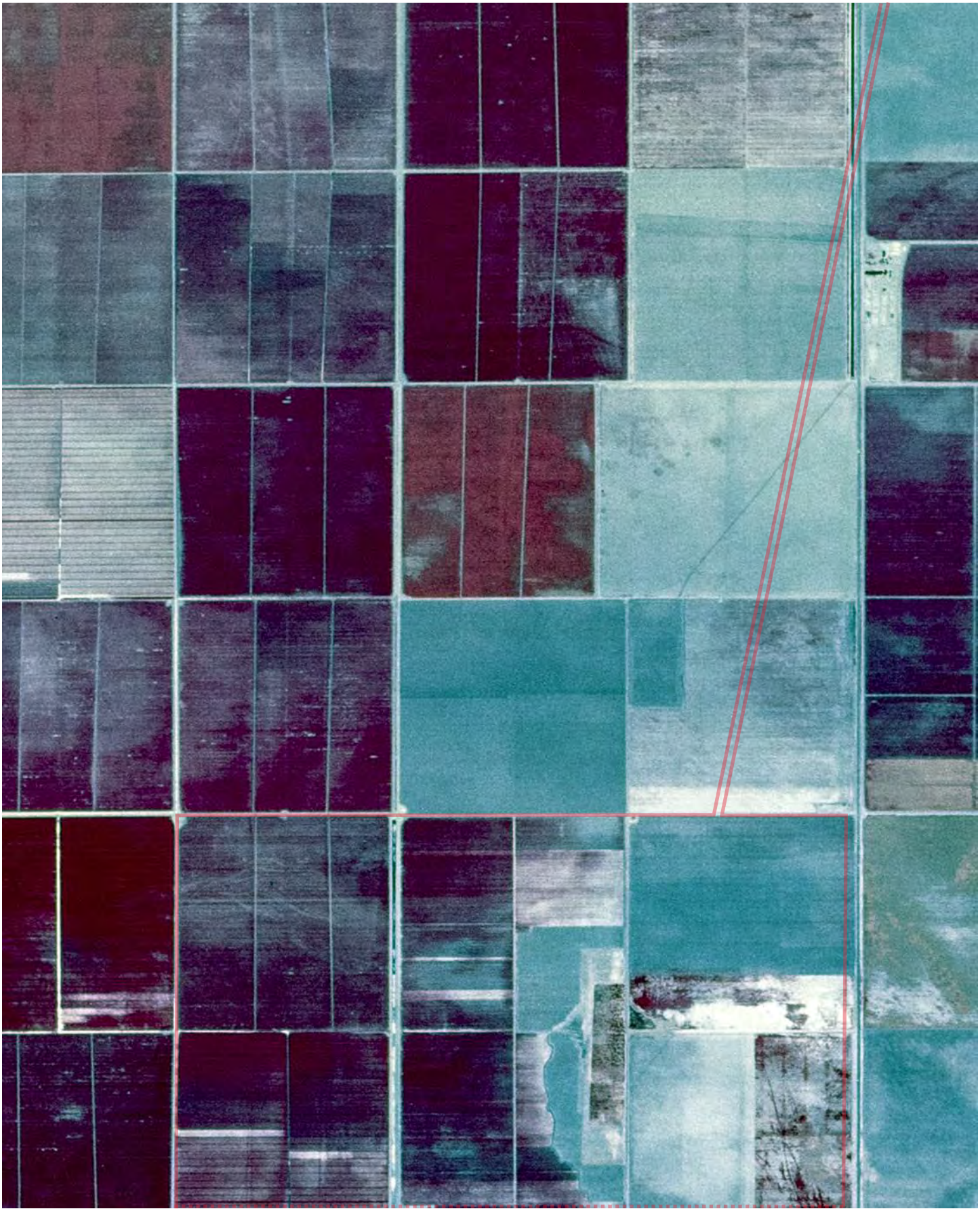
Scale: 1" = 1,500'

FLIGHT YEAR:
1995

Photo 3

N
W E
S

Scale: 1" = 1,500'

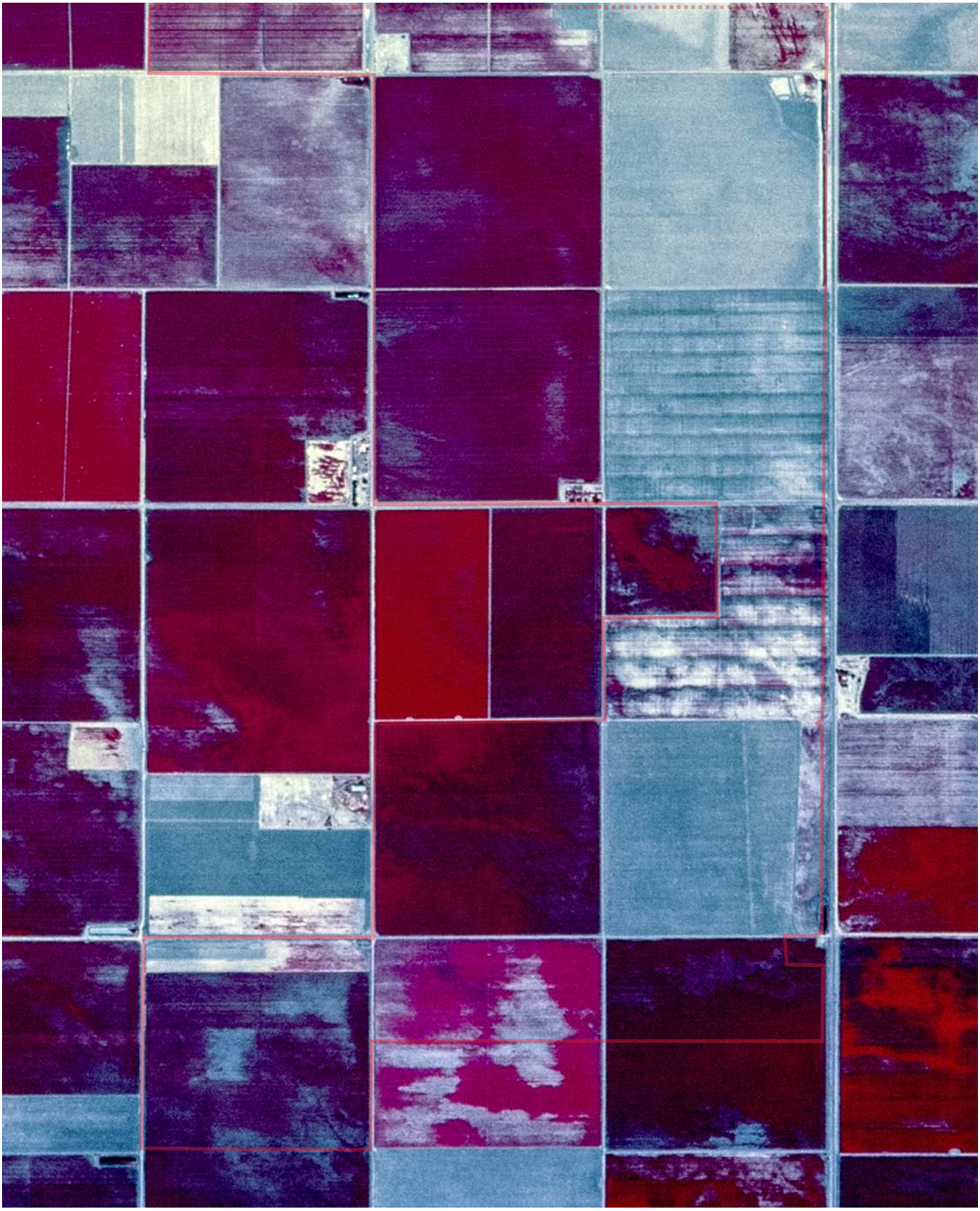


FLIGHT YEAR:
1995

Photo 4

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
1998

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
1998

Photo 2

N
W E
S

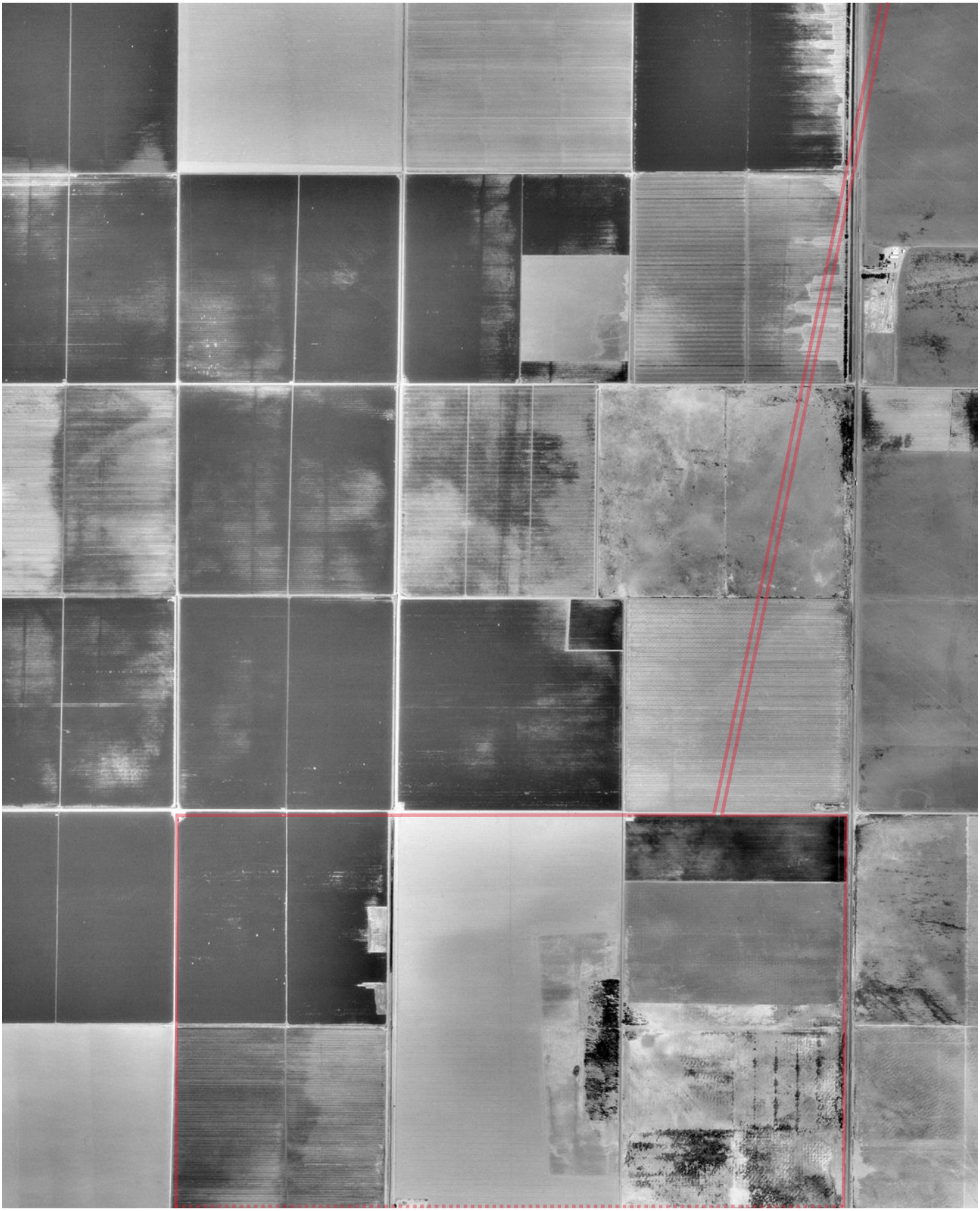
Scale: 1" = 1,500'

FLIGHT YEAR:
1998

Photo 3

N
W E
S

Scale: 1" = 1,500'

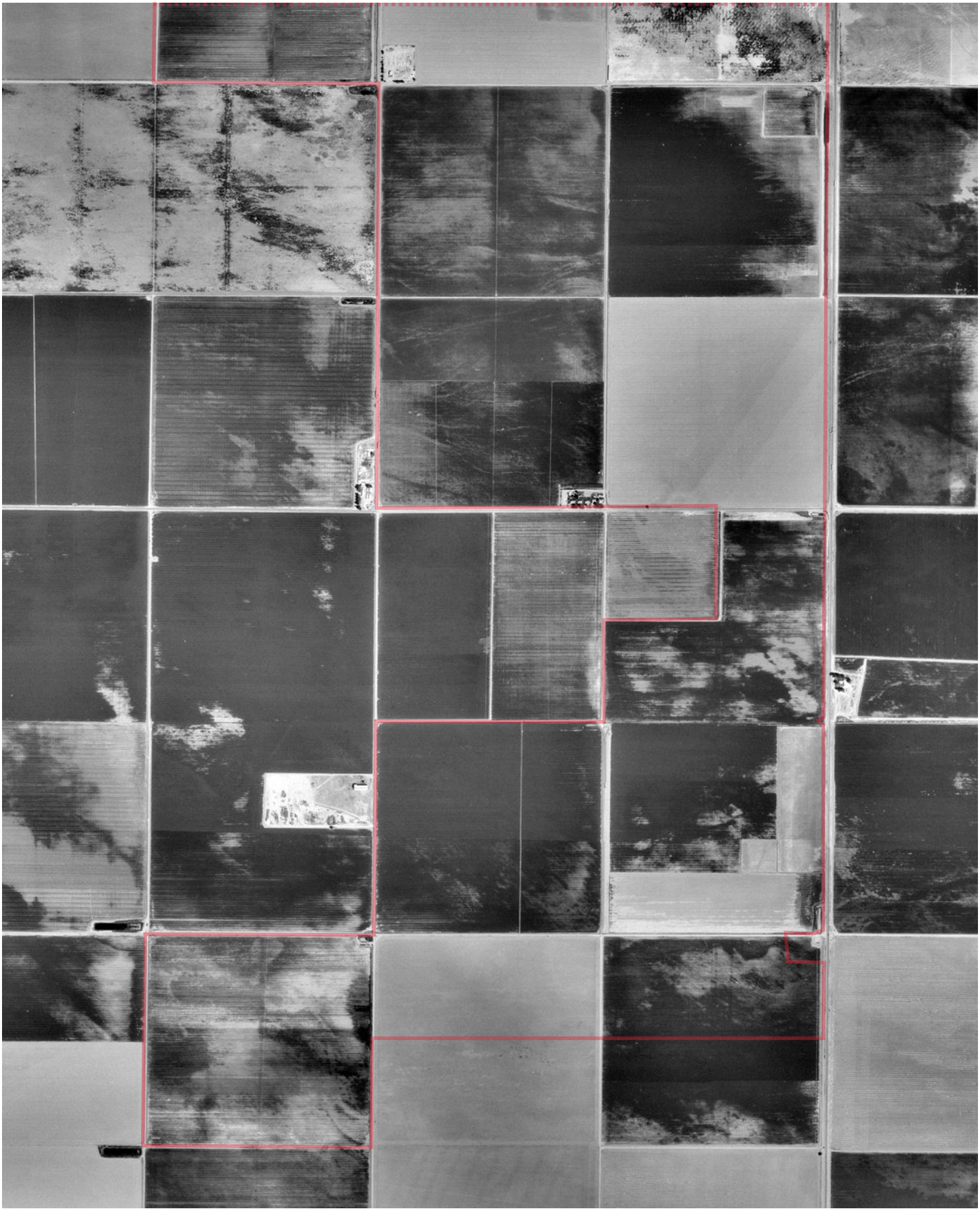


FLIGHT YEAR:
1998

Photo 4

N
W E
S

Scale: 1" = 1,500'



FLIGHT YEAR:
2005

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2005

Photo 2

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2005

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2005

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2009

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2009

Photo 2

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2009

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2009

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2010

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2010

Photo 2

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2010

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2010

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2012

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2012

Photo 2

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2012

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2012

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2014

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2014

Photo 2

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2014

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2014

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2016

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2016

Photo 2

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2016

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2016

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2018

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2018

Photo 2

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2018

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2018

Photo 4

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2020

Photo 1

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2020

Photo 2

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2020

Photo 3

N
W E
S

Scale: 1" = 1,500'

FLIGHT YEAR:
2020

Photo 4

N
W E
S

Scale: 1" = 1,500'

Historical Topographic Map Report | 2022

Order Number: 70138

Report Generated: 04/11/2022

Project Name:

Project Number:

Route 33
Route 33
Kerman, CA 93630

2 Corporate Drive
Suite 450
Shelton, CT 06484
Toll Free: 866-211-2028
www.envirositecorp.com

Envirosite's Historical Topographic Map Report is designed to assist in evaluating a subject property resulting from past activities. Envirosite's Historical Topographic Map Report includes a search of USGS historical topographic maps, dating back to the early 1900s.

TOPOGRAPHIC MAPS FOUND:

	Map Name:	Year:	Revision Year:	Scale:
1.	Mendota	1921	N/R	1 : 31680
2.	Tufts Ranch	1922	N/R	1 : 31680
3.	Levis	1923	N/R	1 : 31680
4.	Mendota	1924	N/R	1 : 31680
5.	Mendota	1924	N/R	1 : 31680
6.	Firebaugh	1946	N/R	1 : 62500
7.	Tranquillity	1946	N/R	1 : 62500
8.	Levis	1947	N/R	1 : 24000
9.	Mendota	1947	N/R	1 : 24000
10.	Tufts Ranch	1947	N/R	1 : 24000
11.	Coit Ranch	1956	1984	1 : 24000
12.	Coit Ranch	1956	N/R	1 : 24000
13.	Coit Ranch	1956	1971	1 : 24000
14.	Levis	1956	N/R	1 : 24000
15.	Levis	1956	1971	1 : 24000
16.	Levis	1956	1984	1 : 24000
17.	Mendota Dam	1956	1984	1 : 24000
18.	Mendota Dam	1956	N/R	1 : 24000
19.	Firebaugh	1962	N/R	1 : 62500
20.	Coit_Ranch	2012	N/R	1 : 24000
21.	Levis	2012	N/R	1 : 24000
22.	Mendota_Dam	2012	N/R	1 : 24000
23.	Coit_Ranch	2015	N/R	1 : 24000
24.	Levis	2015	N/R	1 : 24000
25.	Mendota_Dam	2015	N/R	1 : 24000
26.	Coit_Ranch	2021	N/R	1 : 24000
27.	Levis	2021	N/R	1 : 24000
28.	Mendota_Dam	2021	N/R	1 : 24000

The USGS 7.5 minute series includes scales 1:24,000 / 1:25,000 / 1:31,680. The USGS 15 minute series includes scales 1:48,000 / 1:62,500 / 1:63,360. The USGS 30x60 minute series scale is 1:100,000.

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SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Mendota	MAP YEAR:	1921	REVISION YEAR:	N/R
SCALE:	1 : 31680	Part	1		

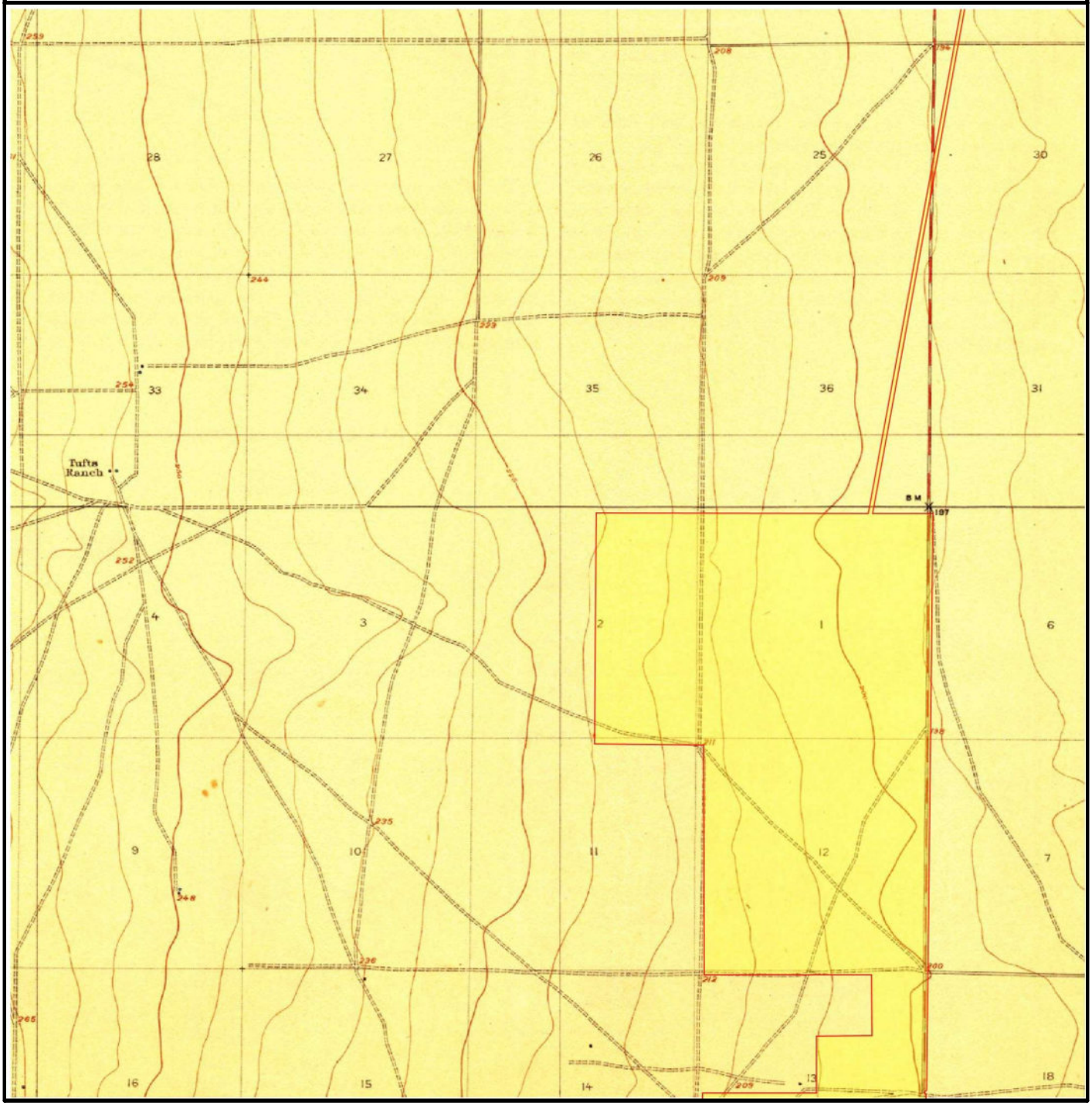
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Tufts Ranch MAP YEAR: 1922 REVISION YEAR: N/R

SCALE: 1 : 31680 Part 1



SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Tufts Ranch MAP YEAR: 1922 REVISION YEAR: N/R

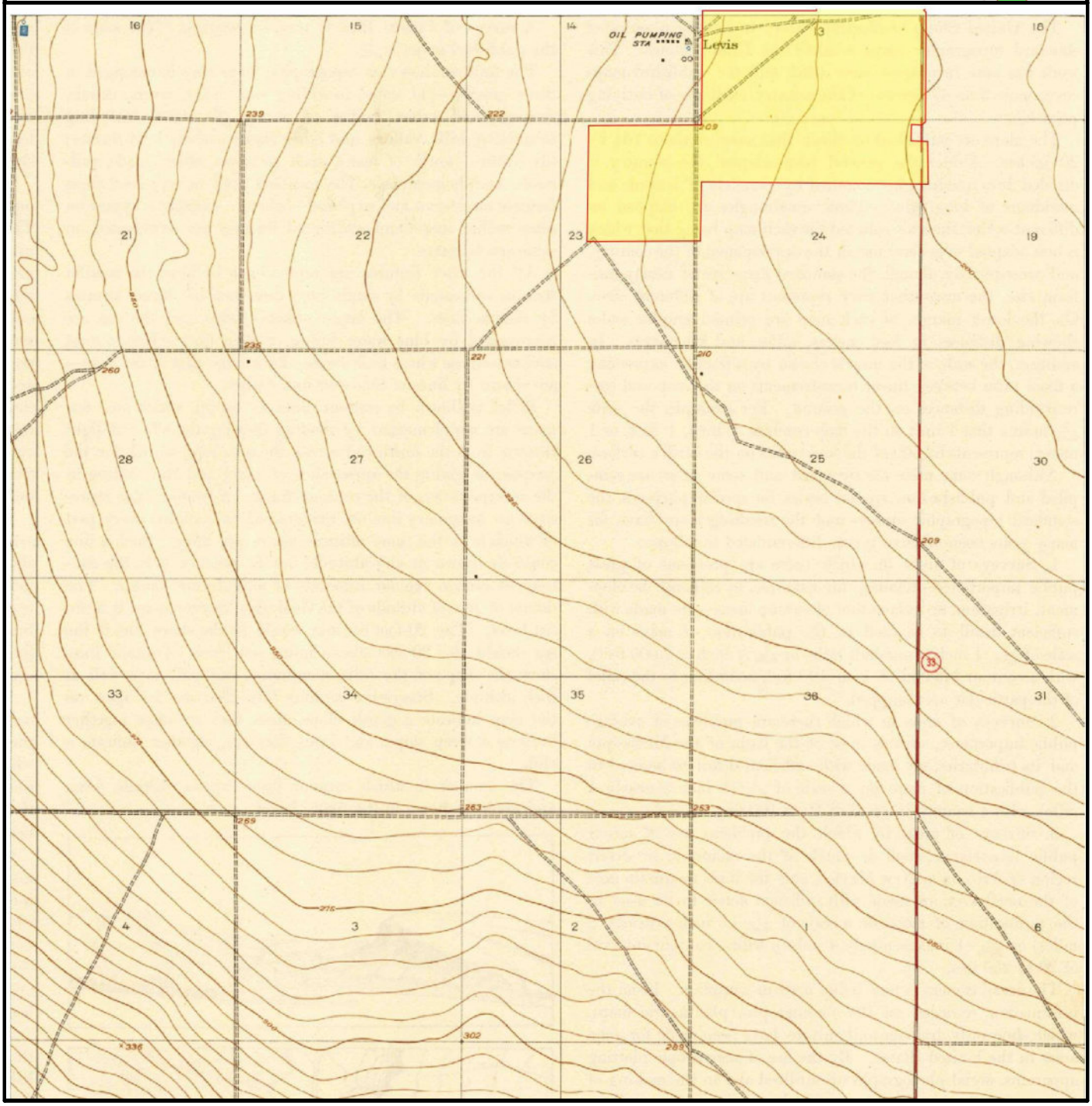
SCALE: 1 : 31680 Part 2

SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Levis	MAP YEAR:	1923	REVISION YEAR:	N/R
SCALE:	1 : 31680	Part	1		



SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Mendota	MAP YEAR:	1924	REVISION YEAR:	N/R
SCALE:	1 : 31680	Part	1		

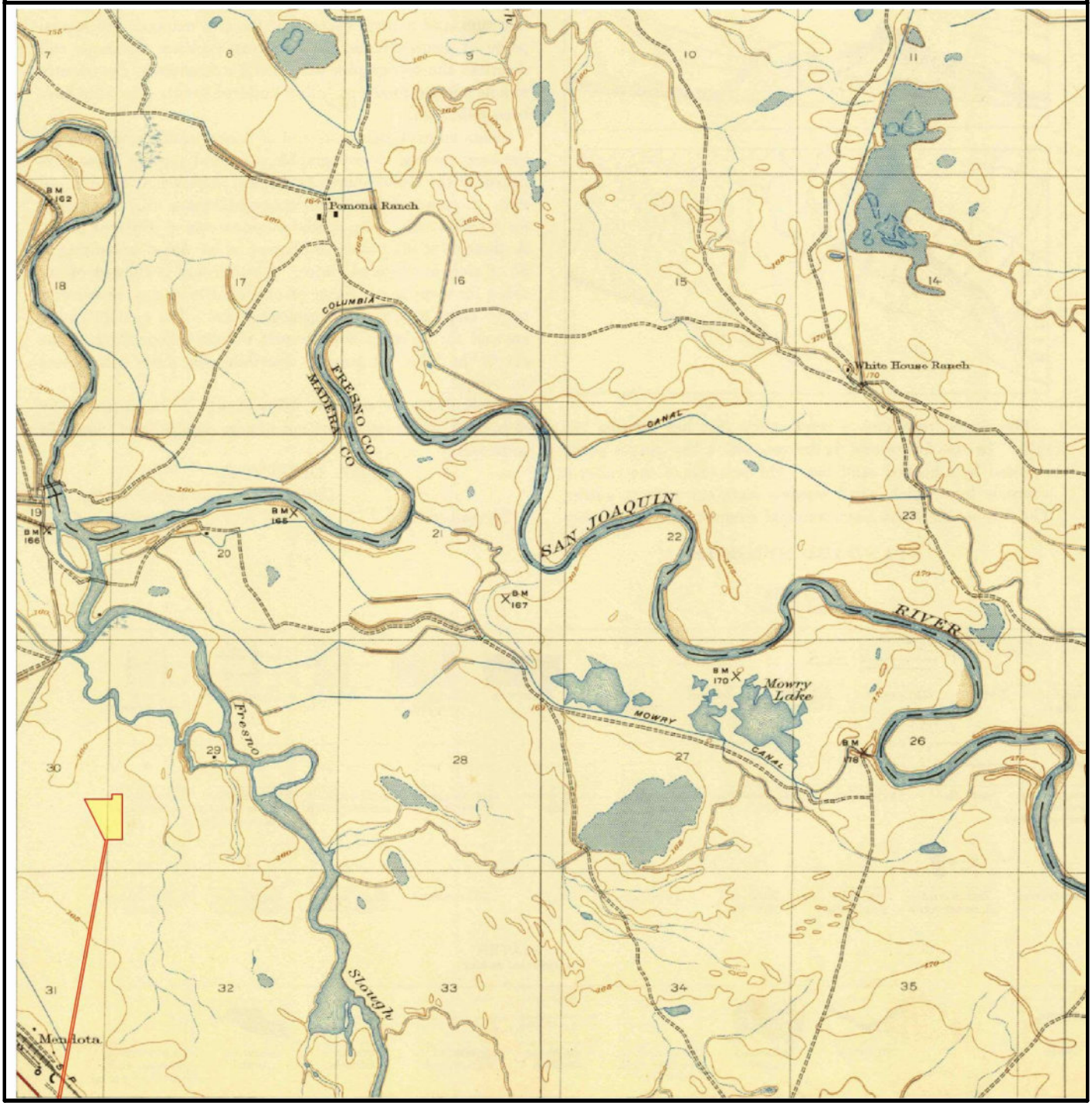
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Mendota MAP YEAR: 1924 REVISION YEAR: N/R

SCALE: 1 : 31680 Part 1

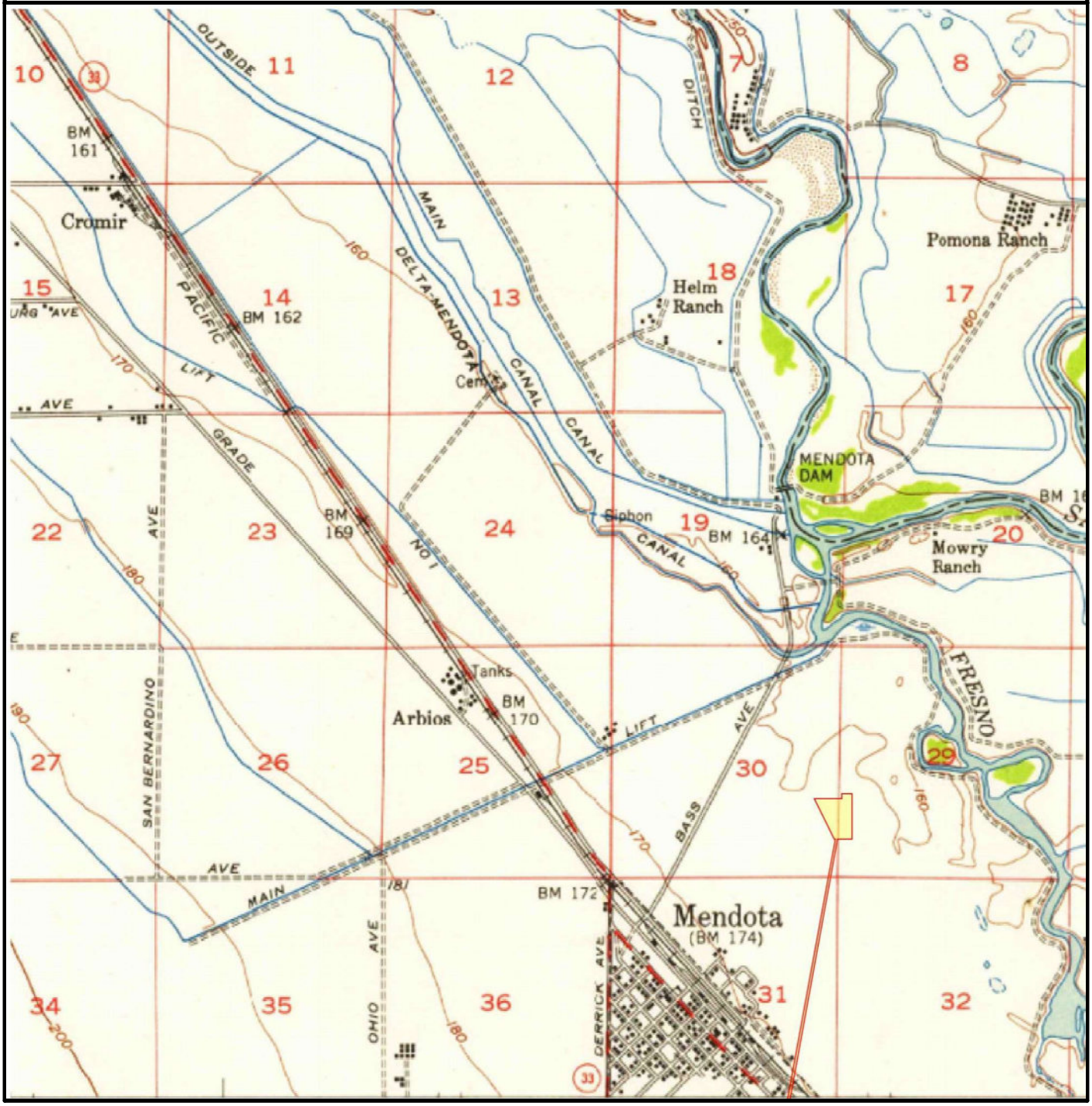


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Firebaugh	MAP YEAR:	1946	REVISION YEAR:	N/R
SCALE:	1 : 62500	Part	1		



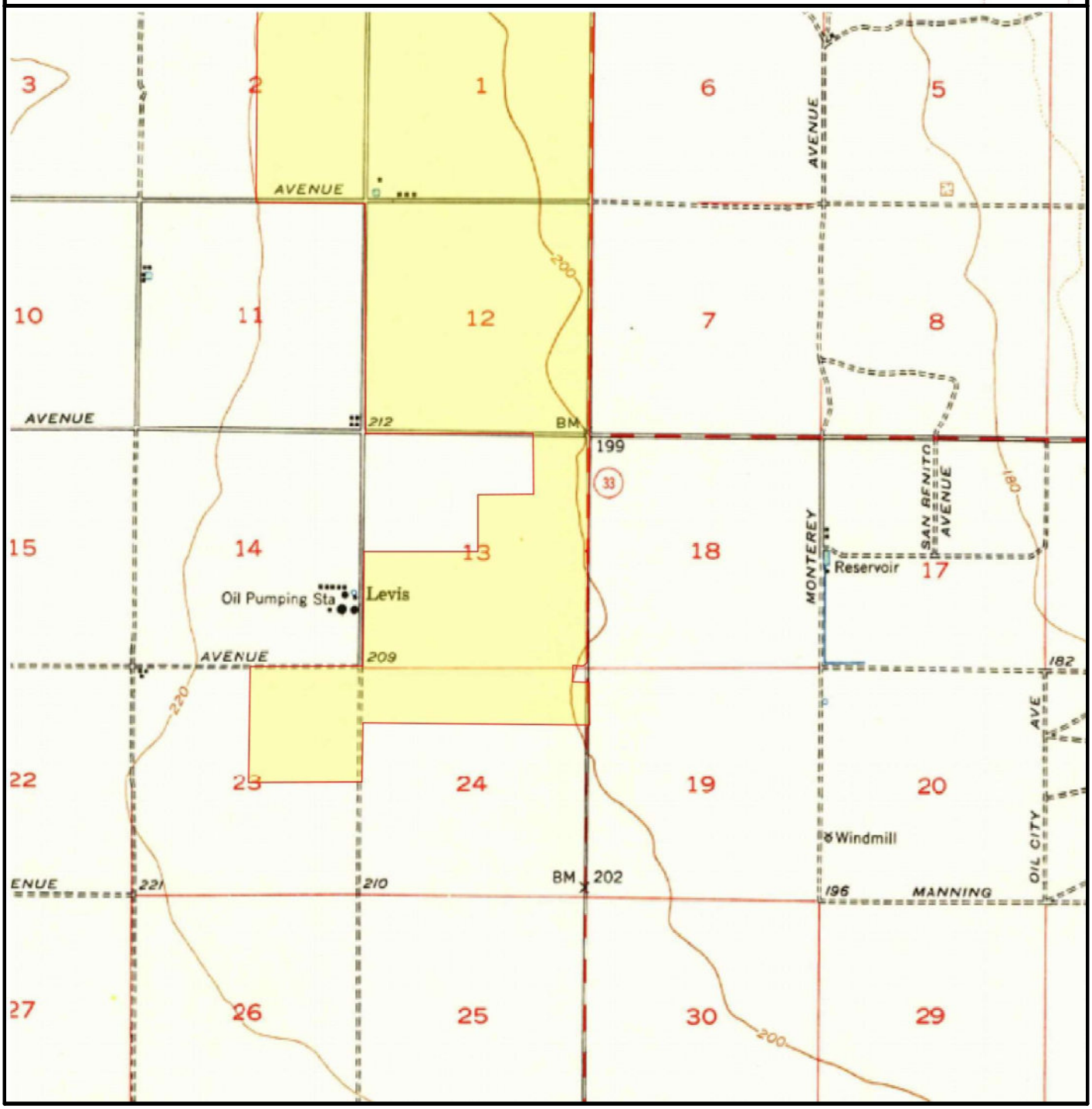
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Tranquillity MAP YEAR: 1946 REVISION YEAR: N/R

SCALE: 1 : 62500 Part 1

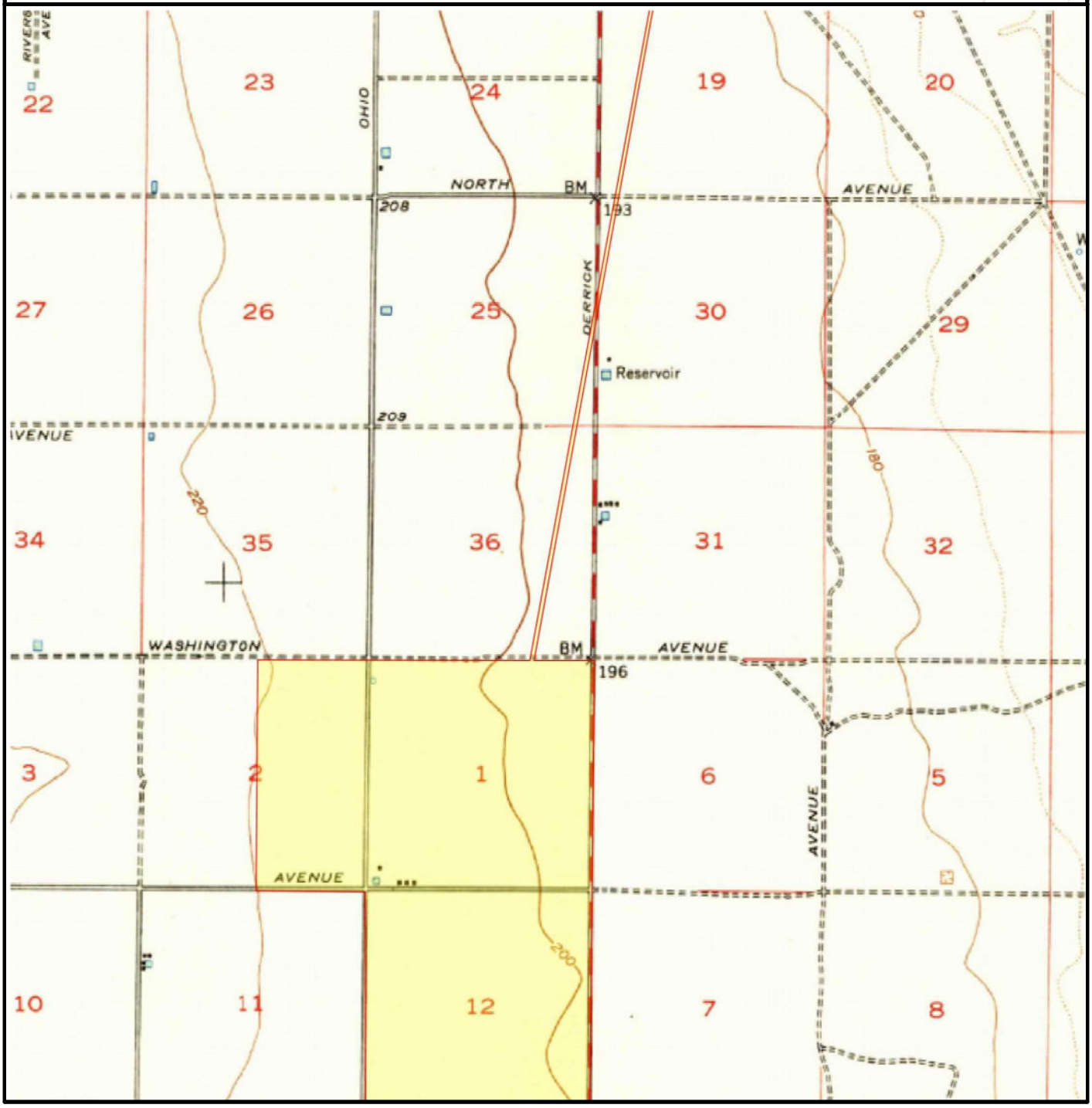


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Tranquillity	MAP YEAR:	1946	REVISION YEAR:	N/R
SCALE:	1 : 62500	Part	2		

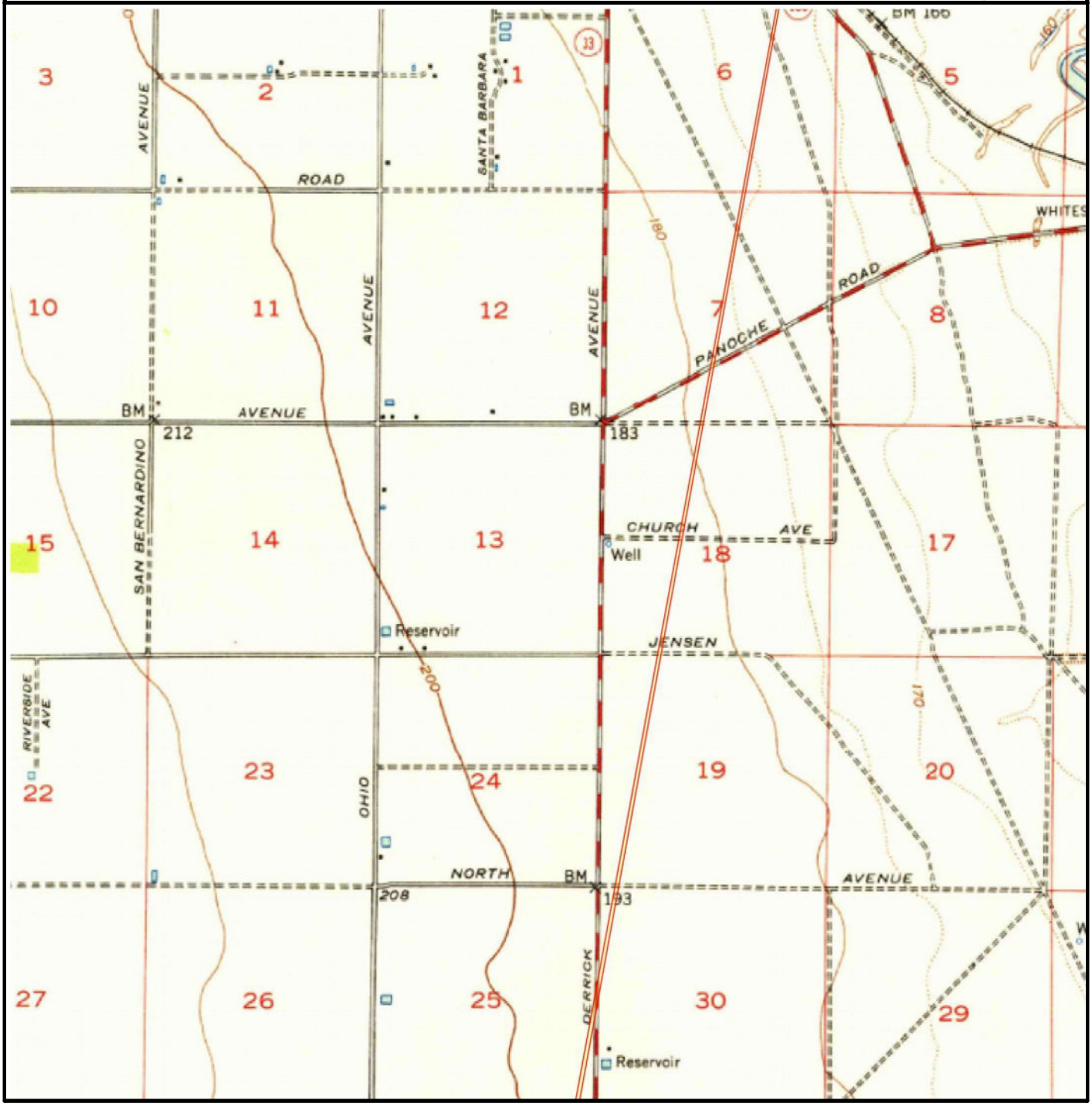


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Tranquillity	MAP YEAR:	1946	REVISION YEAR:	N/R
SCALE:	1 : 62500	Part	3		

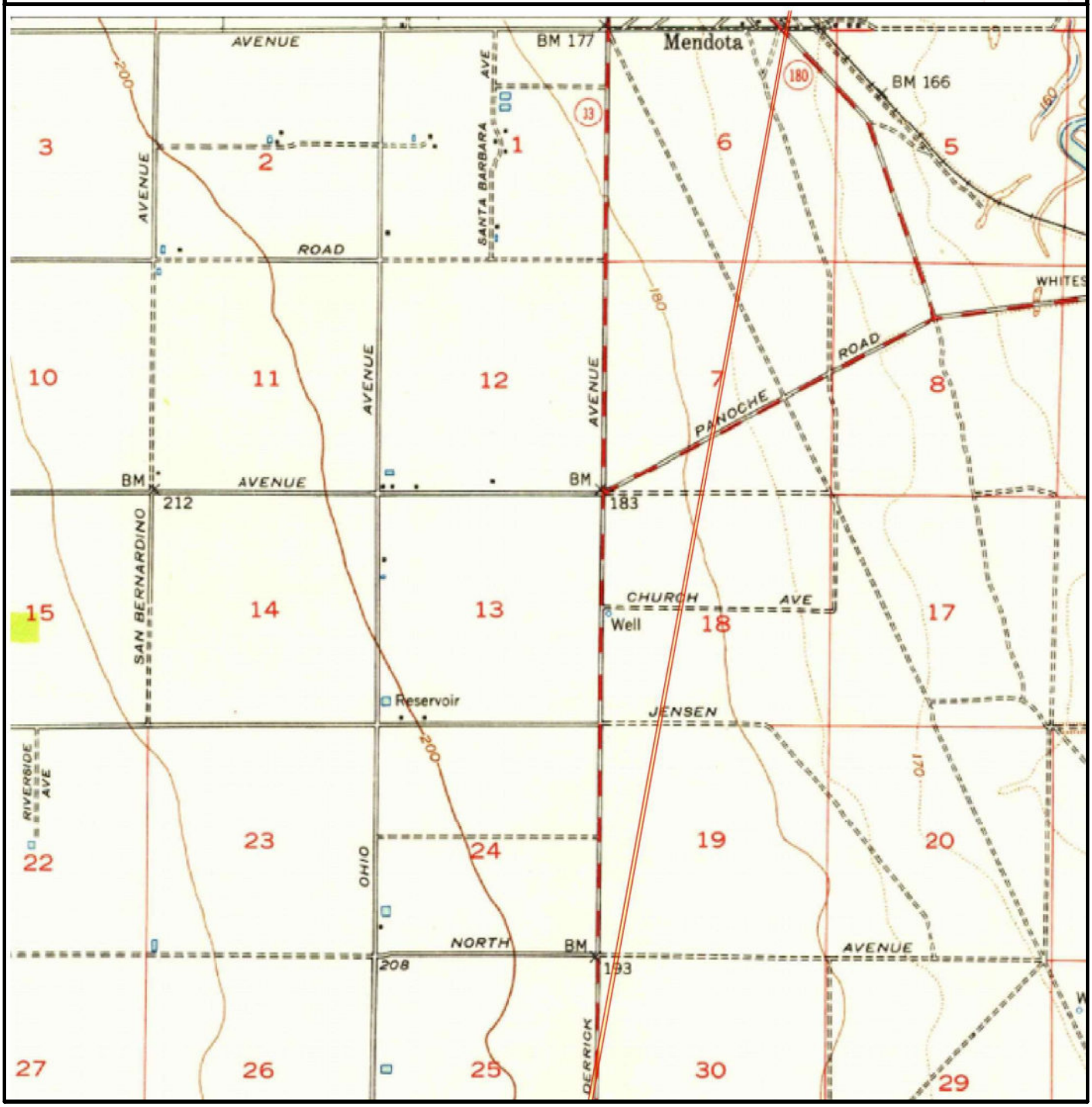


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Tranquillity	MAP YEAR:	1946	REVISION YEAR:	N/R
SCALE:	1 : 62500	Part	4		



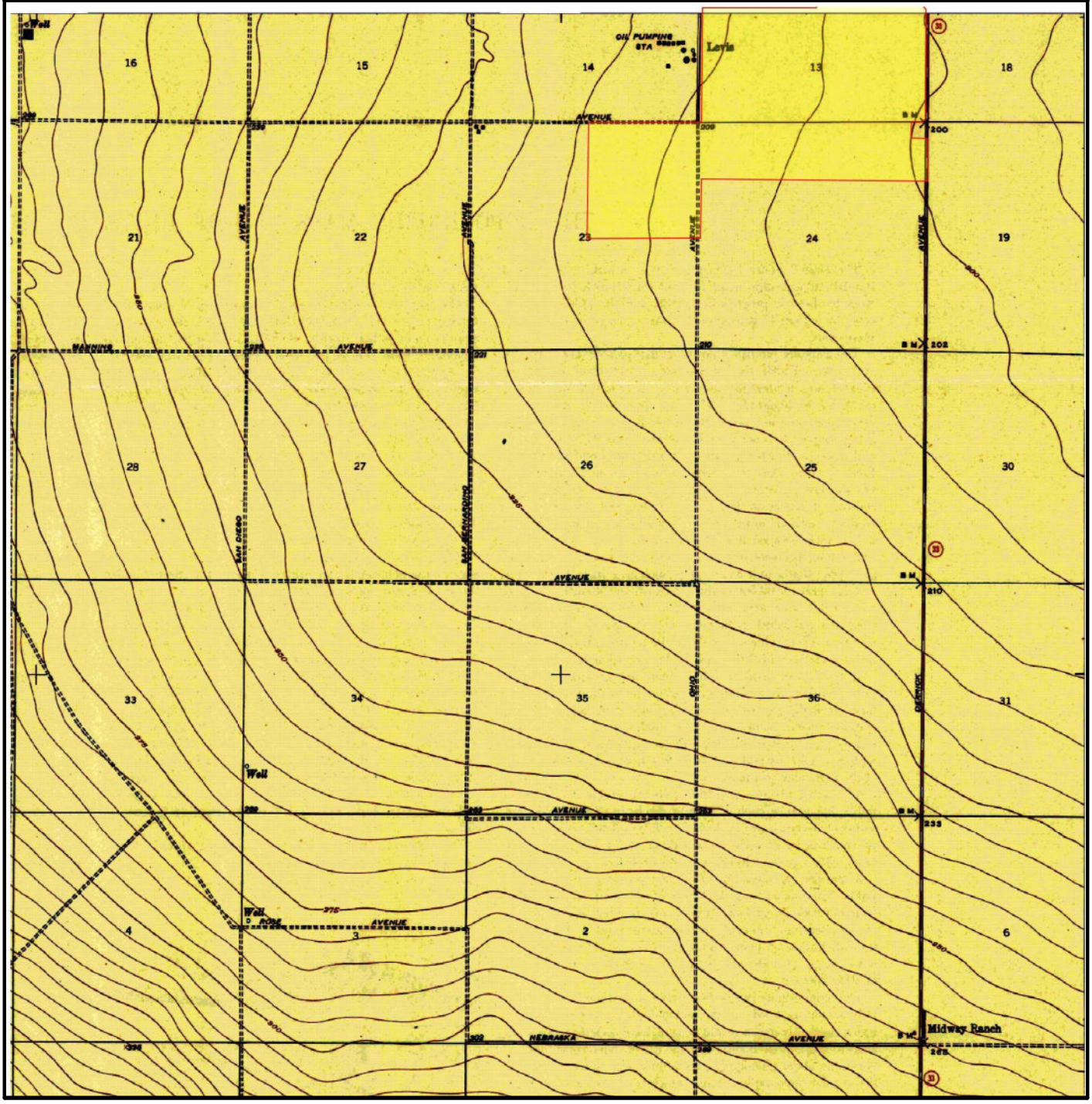
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Levis MAP YEAR: 1947 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1

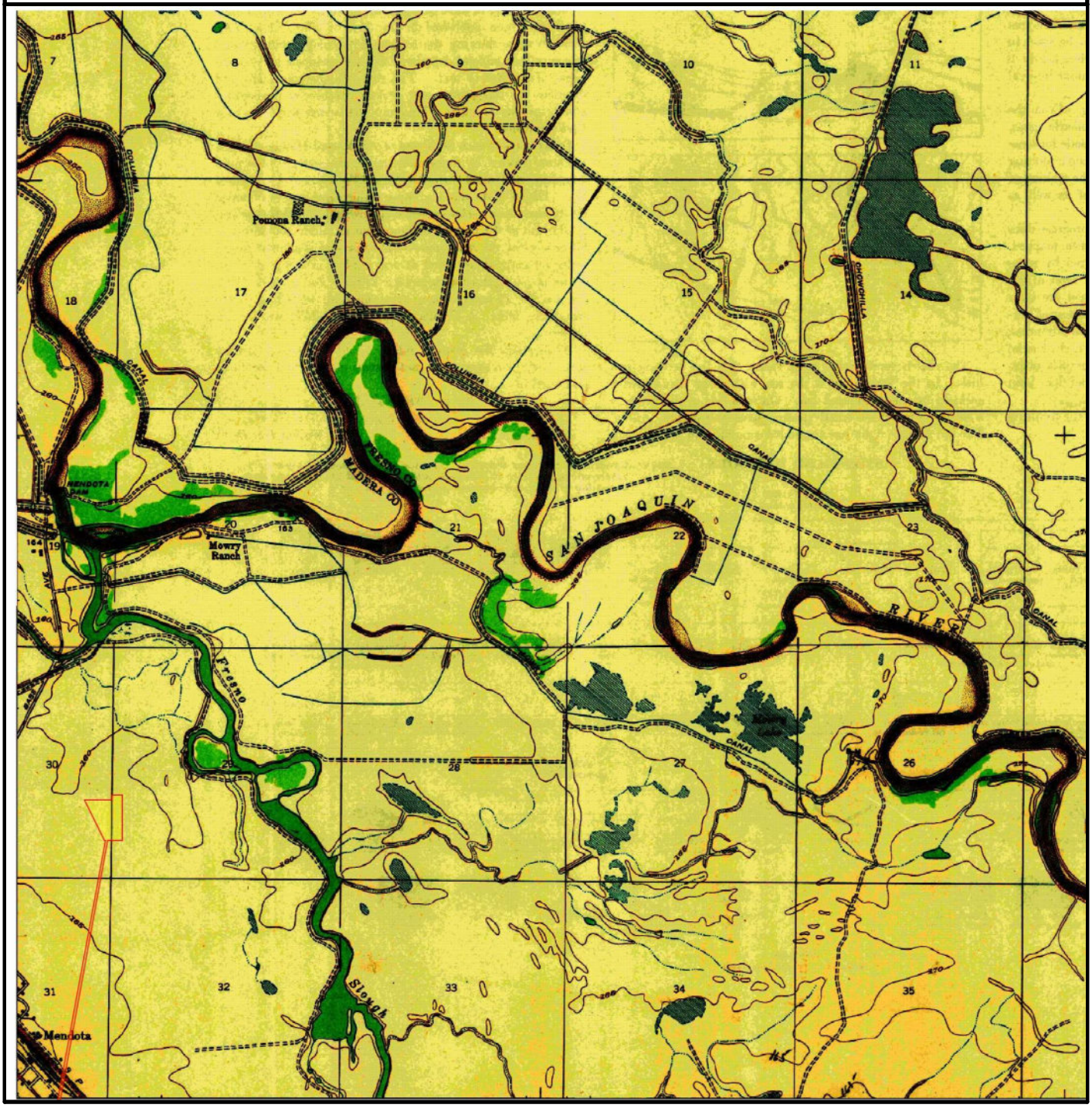


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Mendota	MAP YEAR:	1947	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

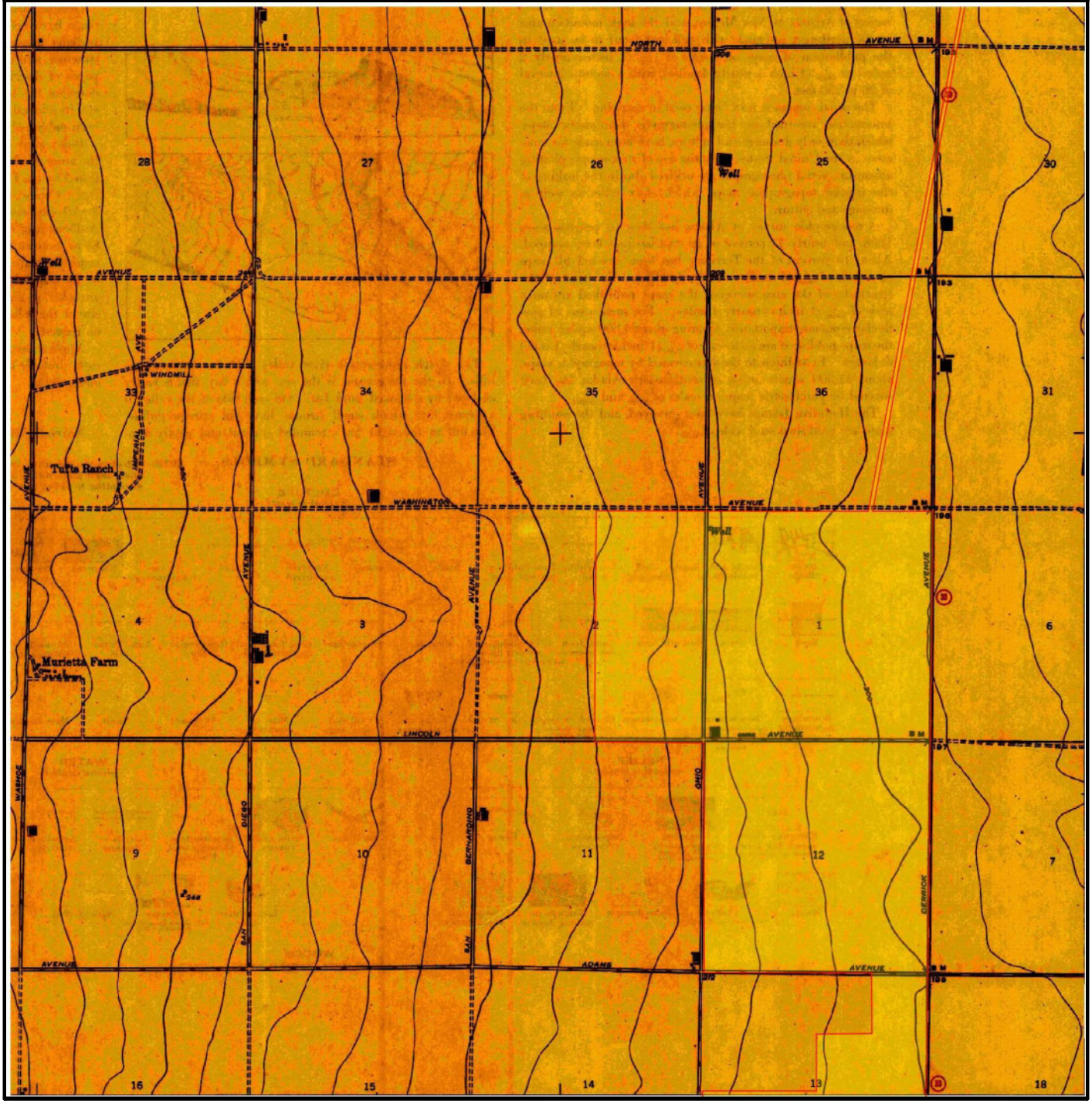


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Tufts Ranch	MAP YEAR:	1947	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

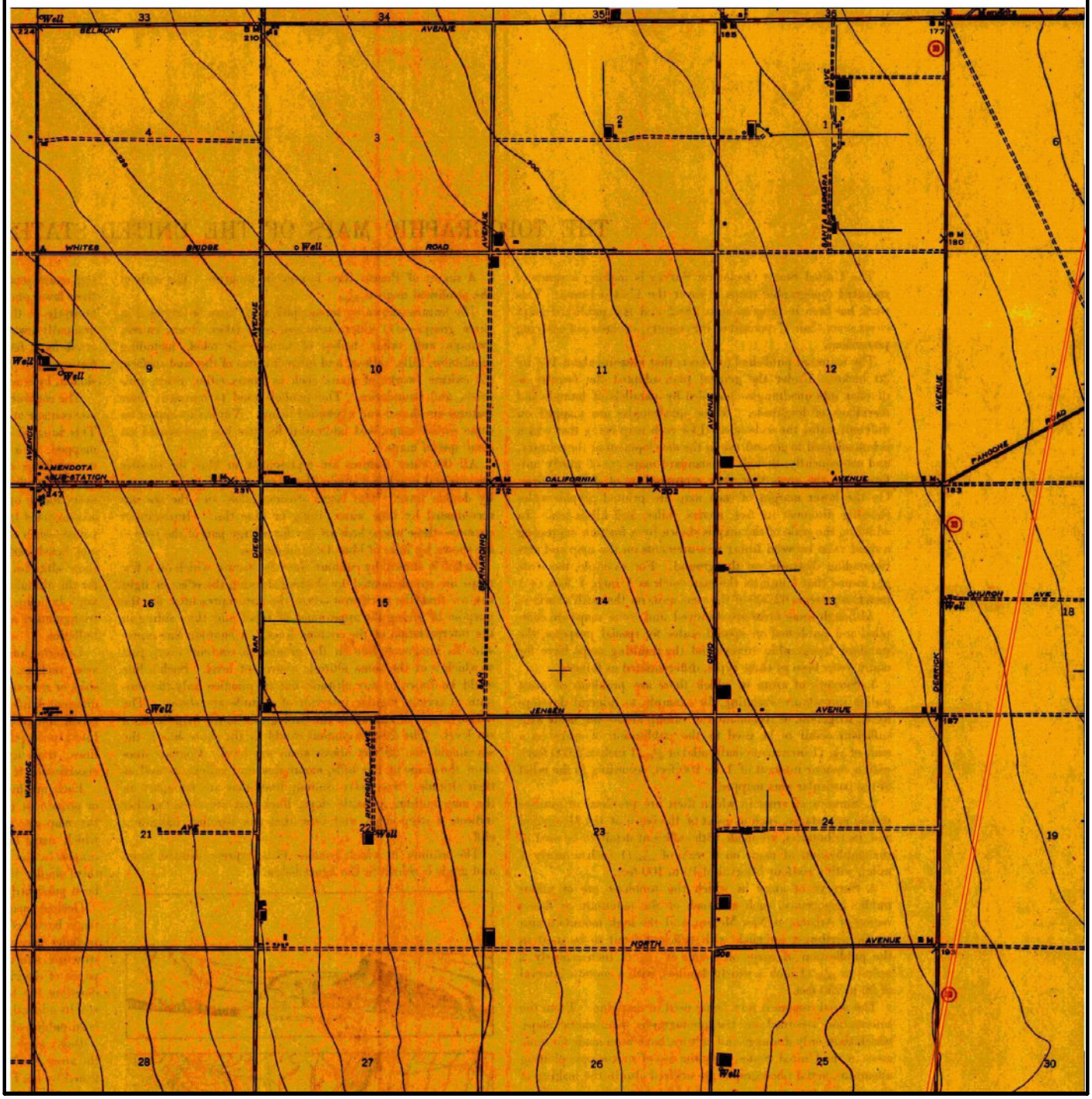


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Tufts Ranch	MAP YEAR:	1947	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	2		



SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit Ranch MAP YEAR: 1956 REVISION YEAR: 1984

SCALE: 1 : 24000 Part 1

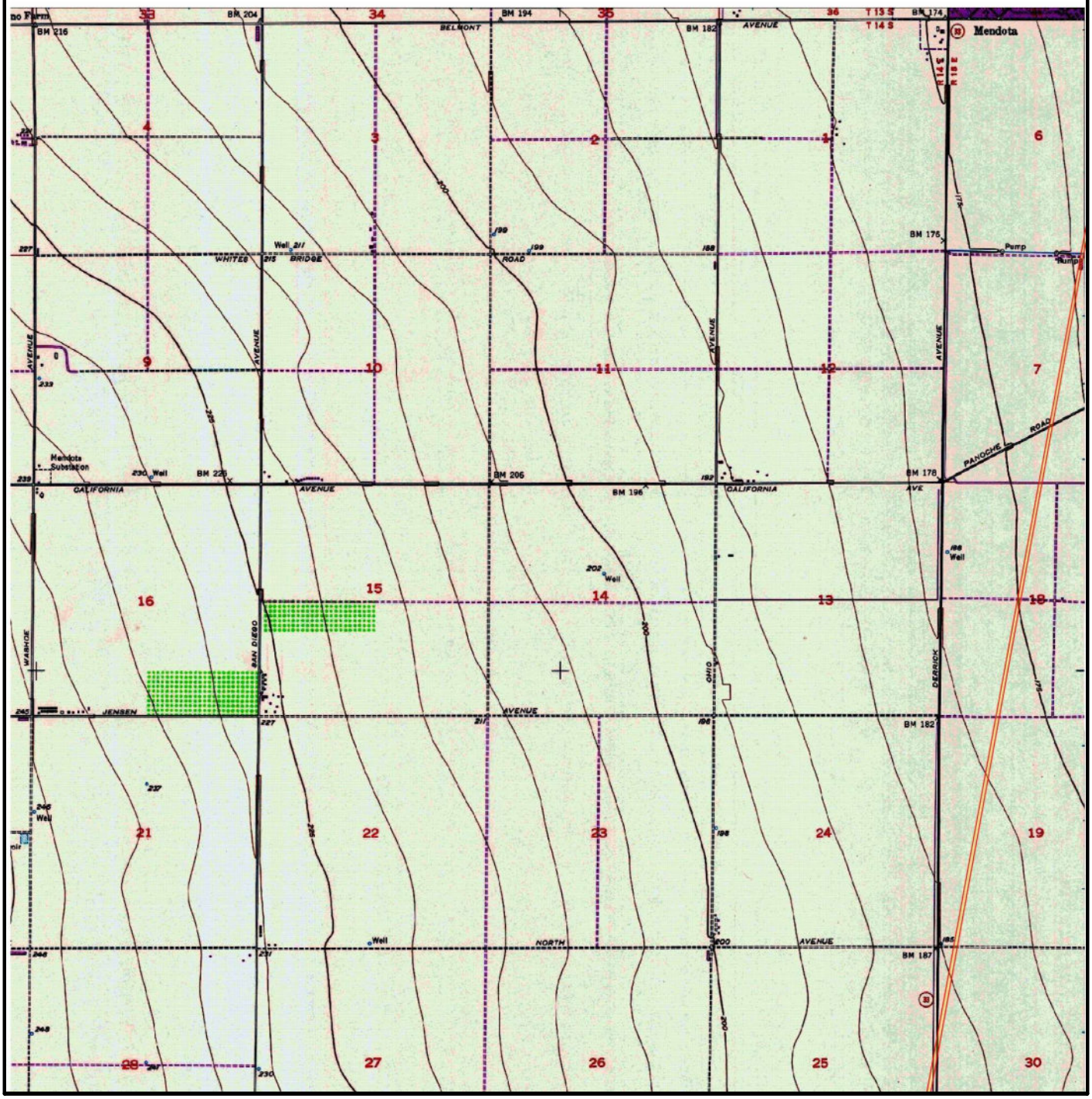
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit Ranch MAP YEAR: 1956 REVISION YEAR: 1984

SCALE: 1 : 24000 Part 2



SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit Ranch MAP YEAR: 1956 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1

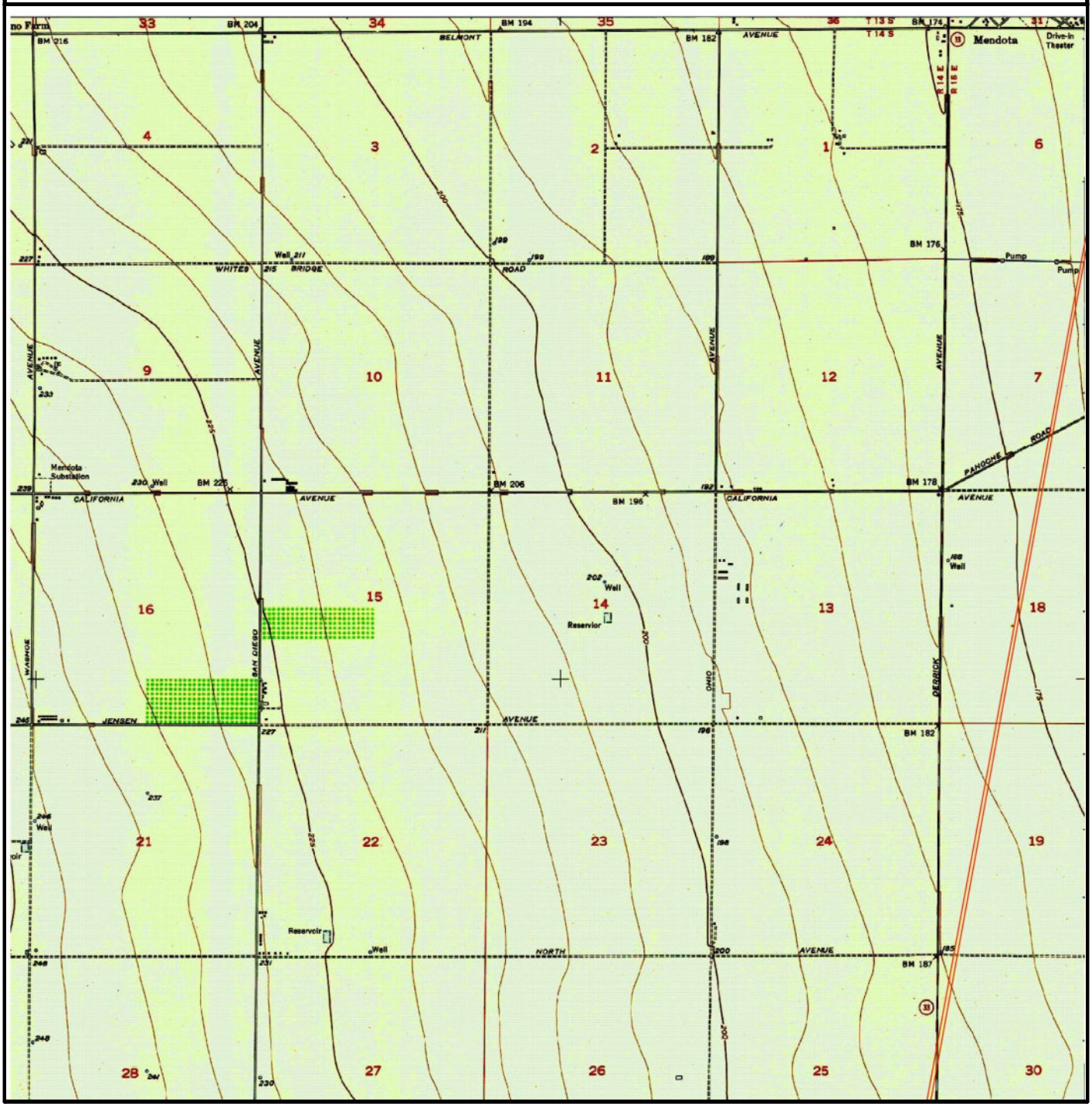
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit Ranch MAP YEAR: 1956 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 2



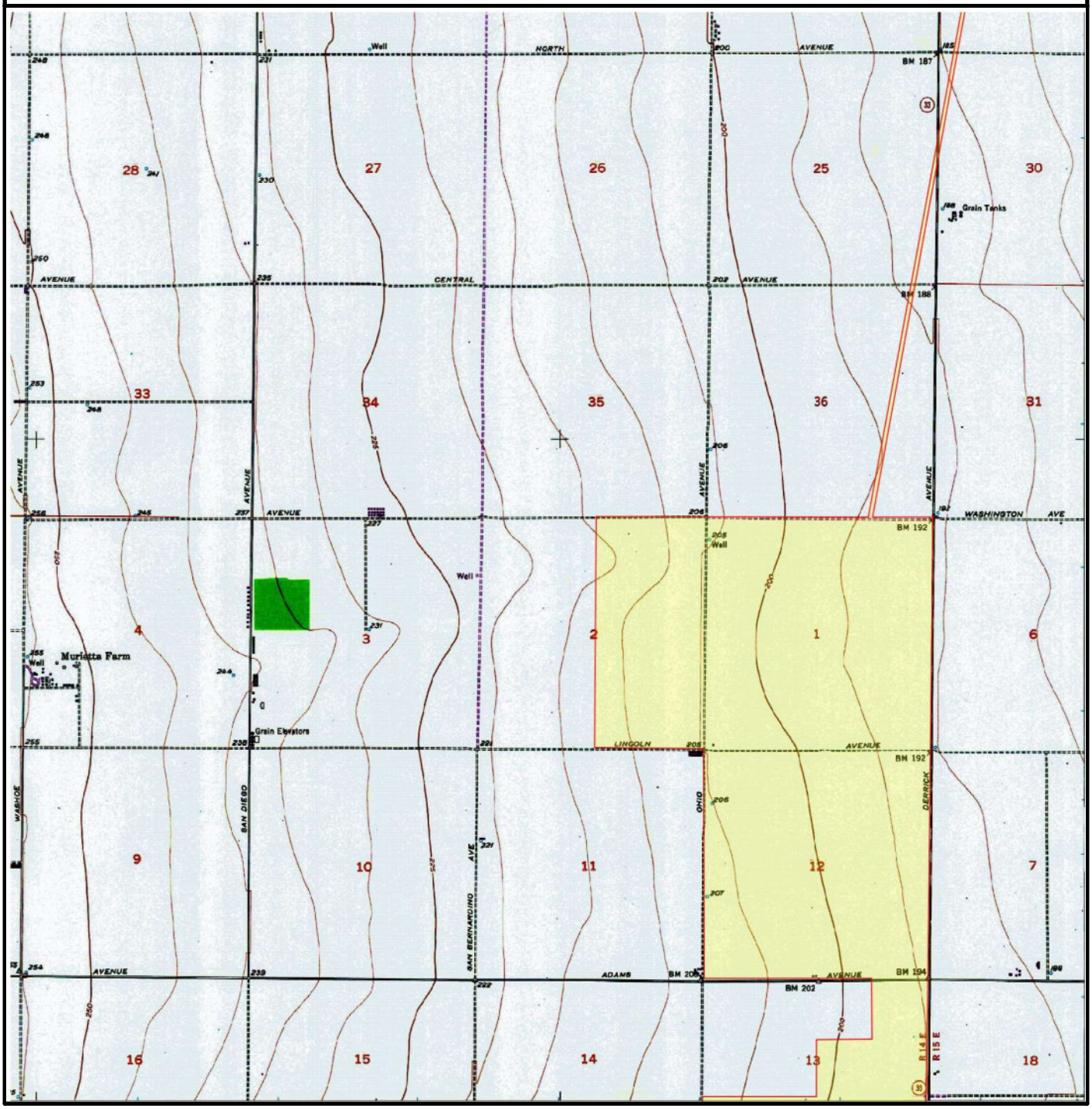
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit Ranch MAP YEAR: 1956 REVISION YEAR: 1971

SCALE: 1 : 24000 Part 1



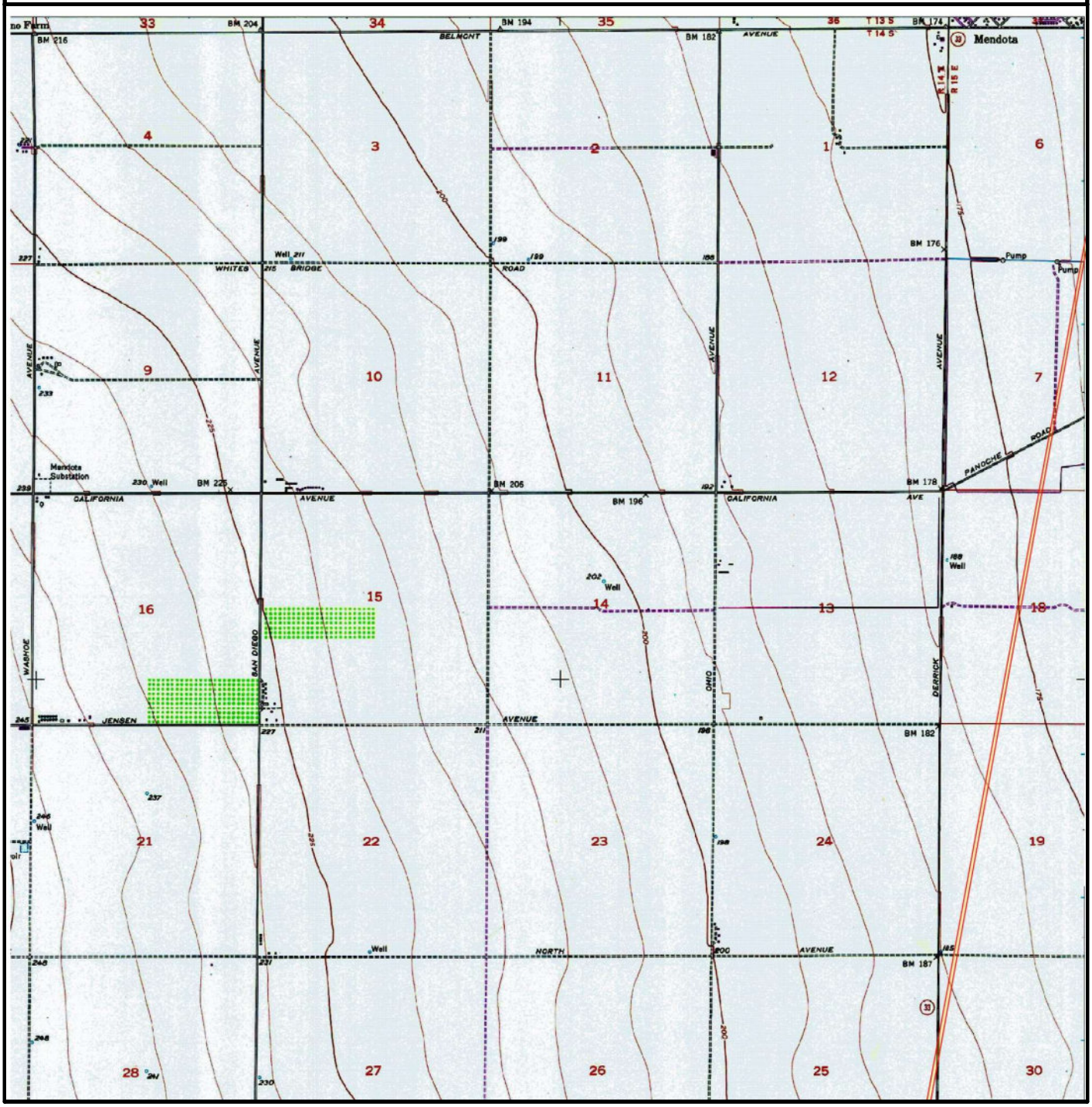
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit Ranch MAP YEAR: 1956 REVISION YEAR: 1971

SCALE: 1 : 24000 Part 2



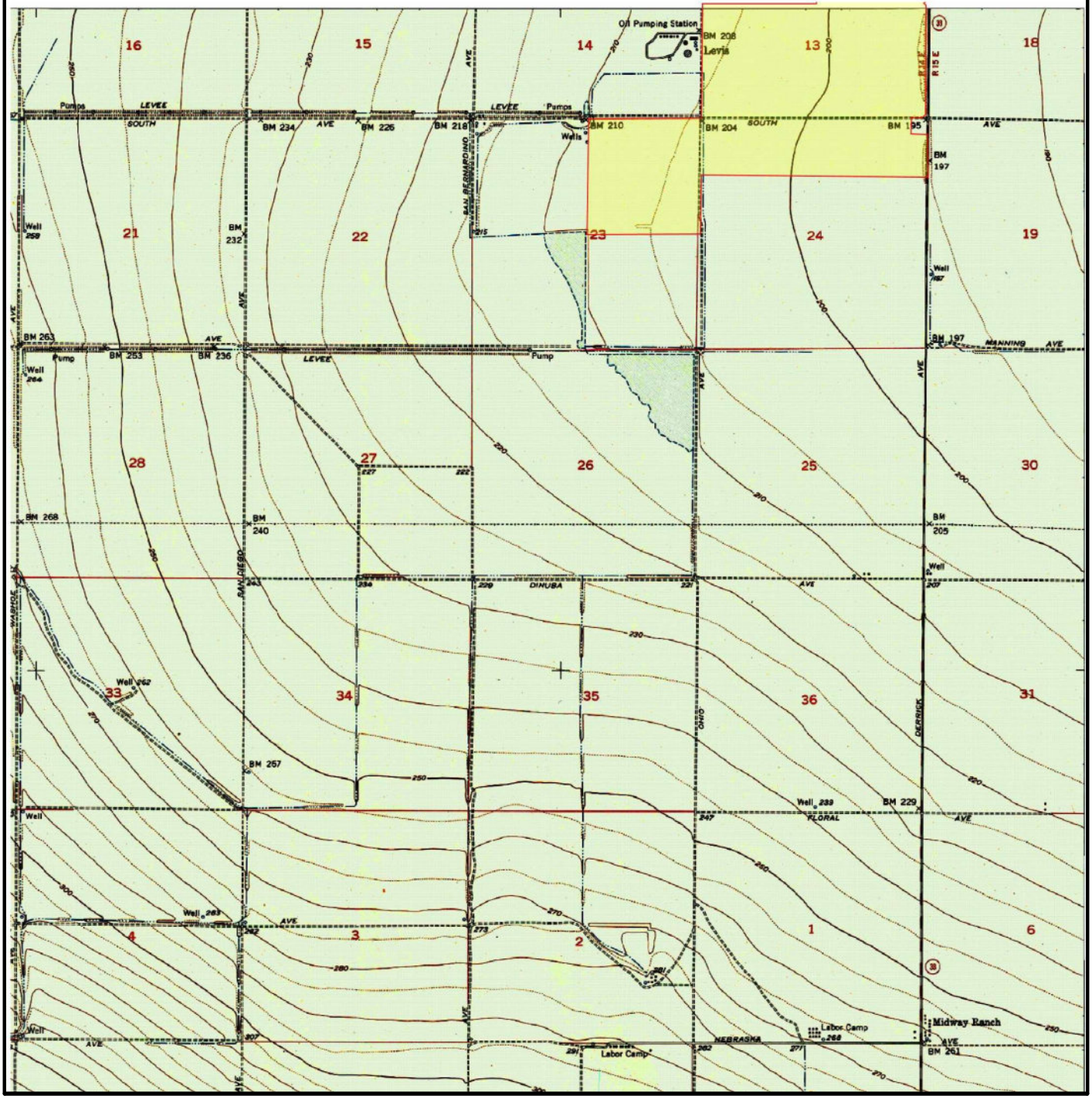
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Levis MAP YEAR: 1956 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1



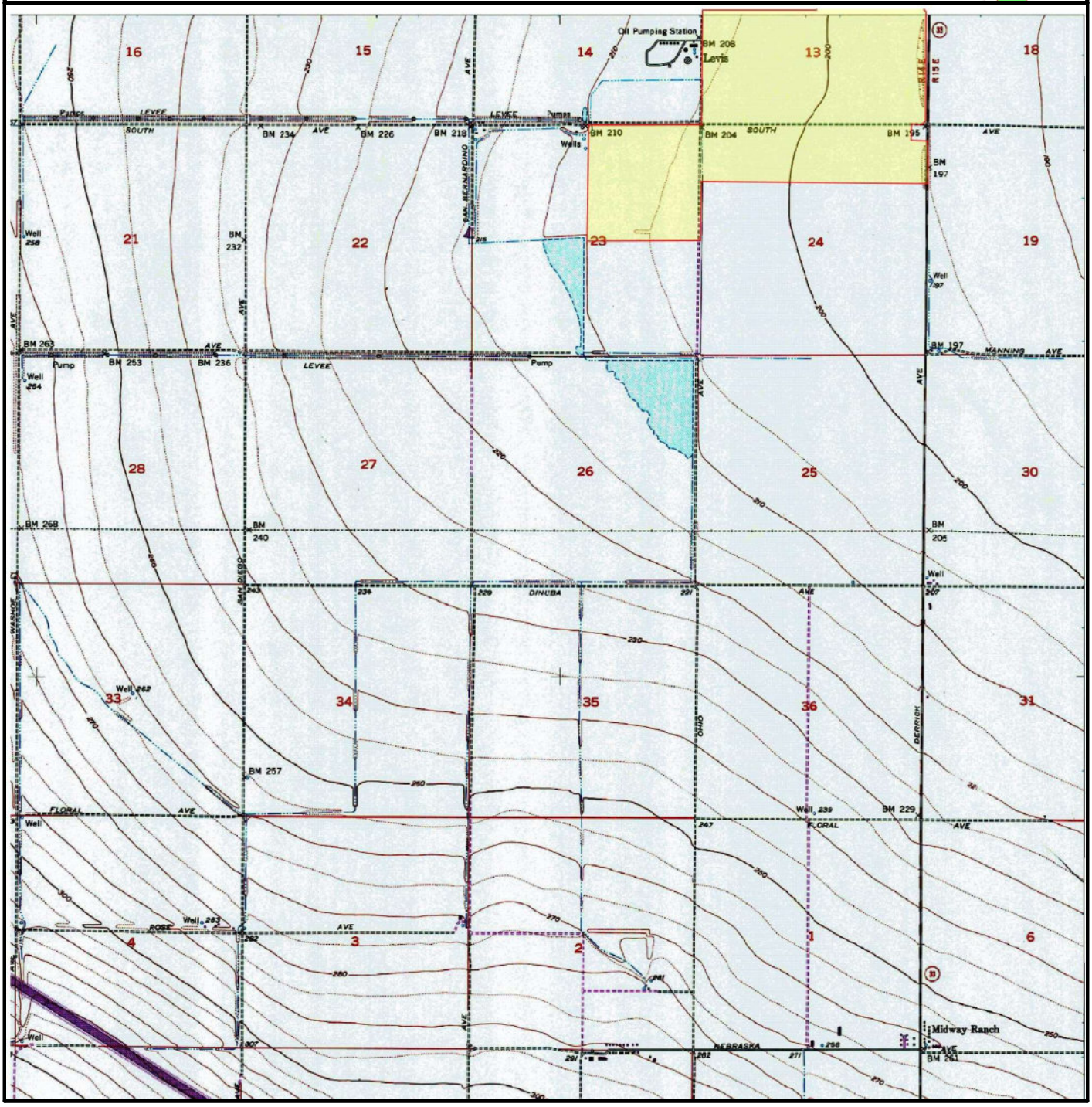
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Levis MAP YEAR: 1956 REVISION YEAR: 1971

SCALE: 1 : 24000 Part 1



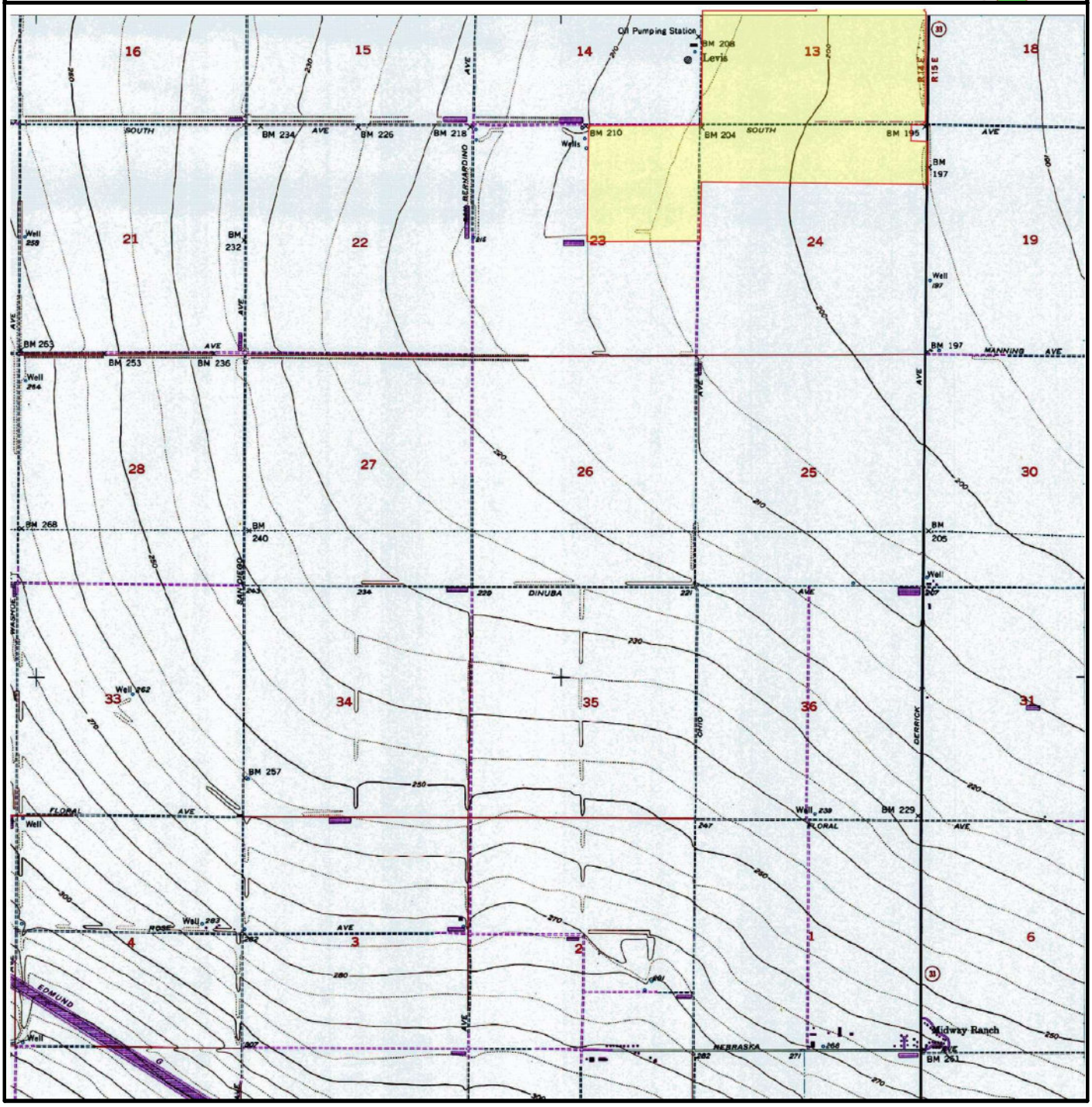
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Levis MAP YEAR: 1956 REVISION YEAR: 1984

SCALE: 1 : 24000 Part 1



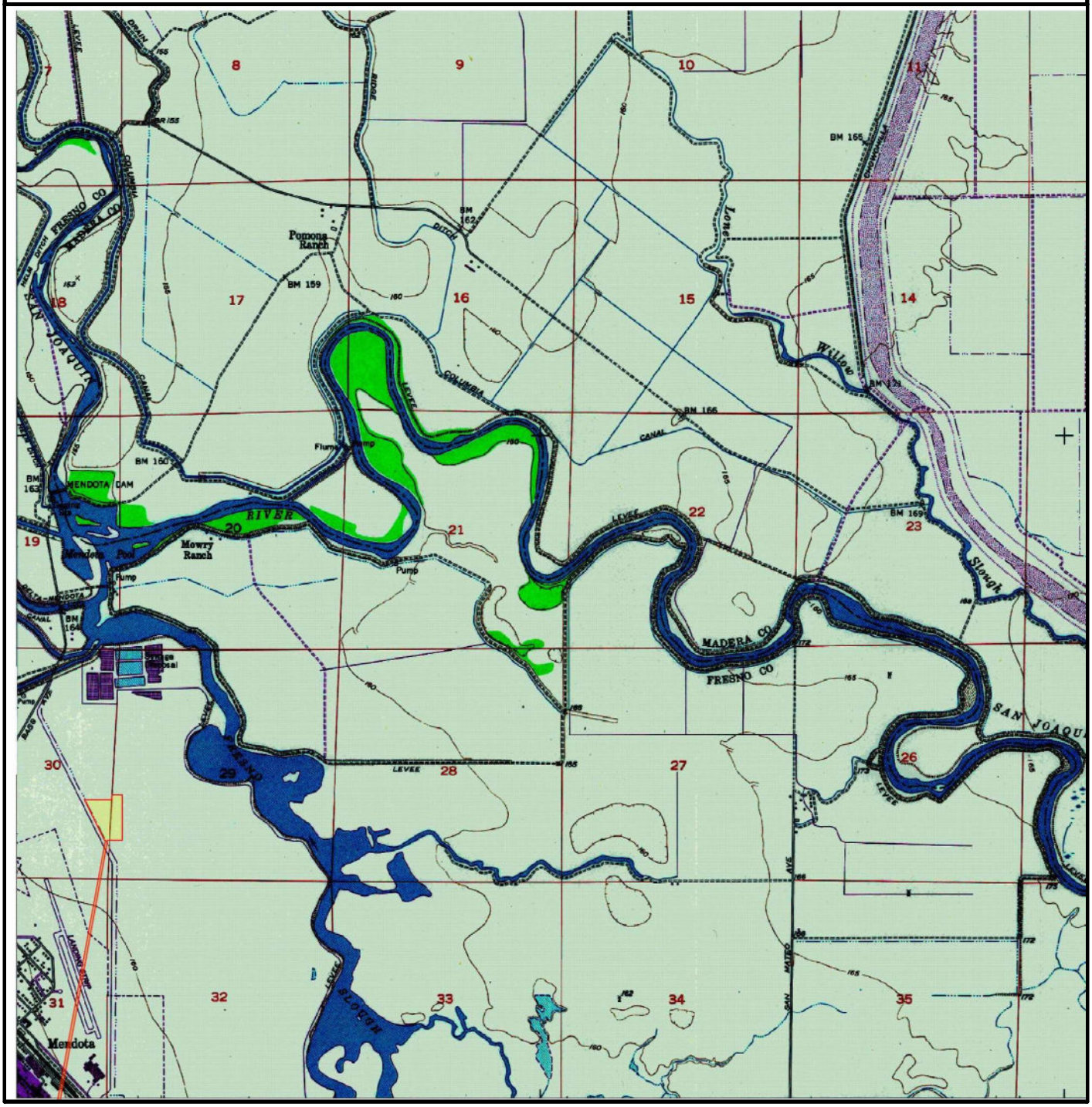
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Mendota Dam MAP YEAR: 1956 REVISION YEAR: 1984

SCALE: 1 : 24000 Part 1



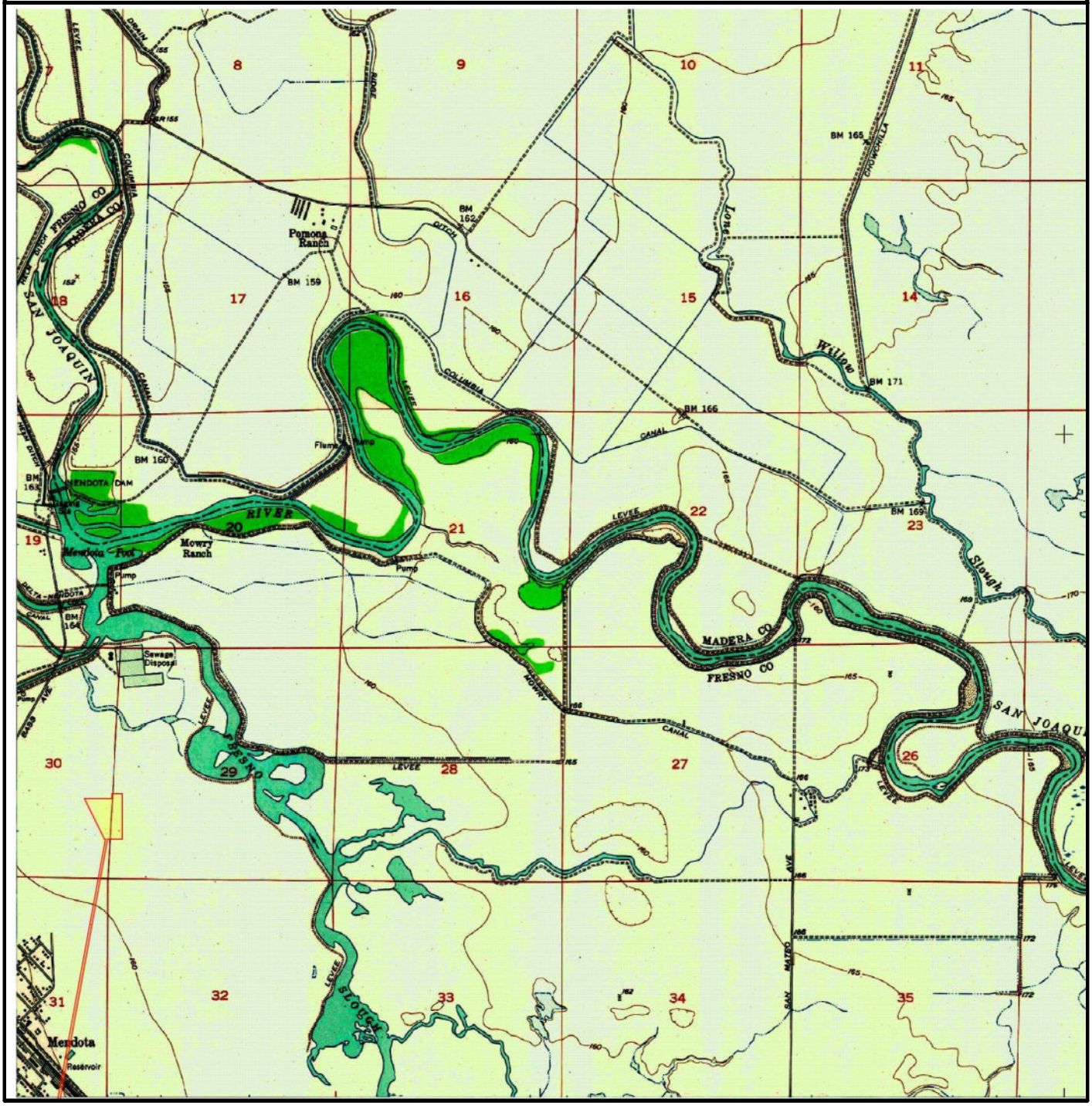
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Mendota Dam
MAP YEAR: 1956
REVISION YEAR: N/R

SCALE: 1 : 24000
Part 1



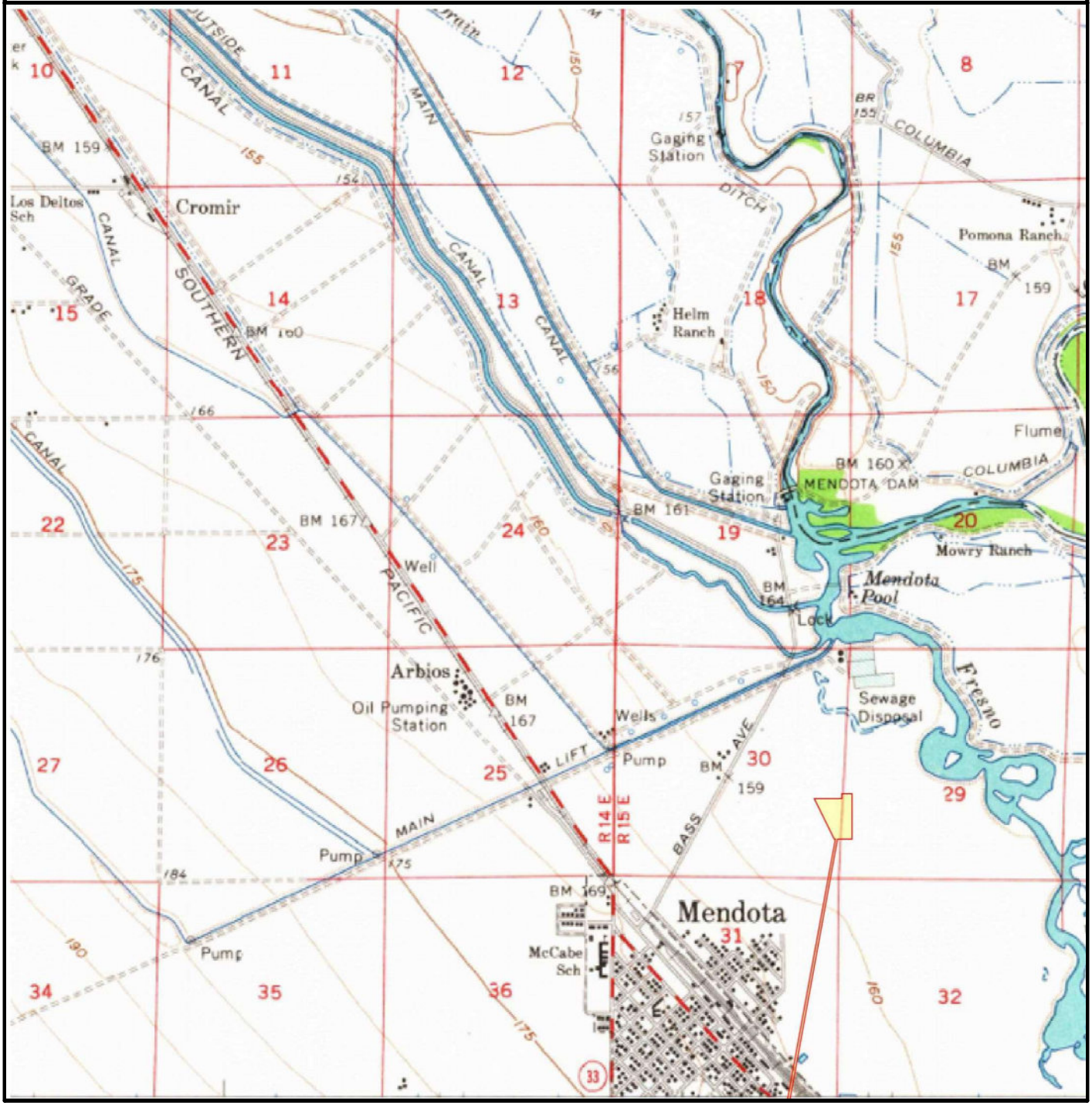
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Firebaugh MAP YEAR: 1962 REVISION YEAR: N/R

SCALE: 1 : 62500 Part 1



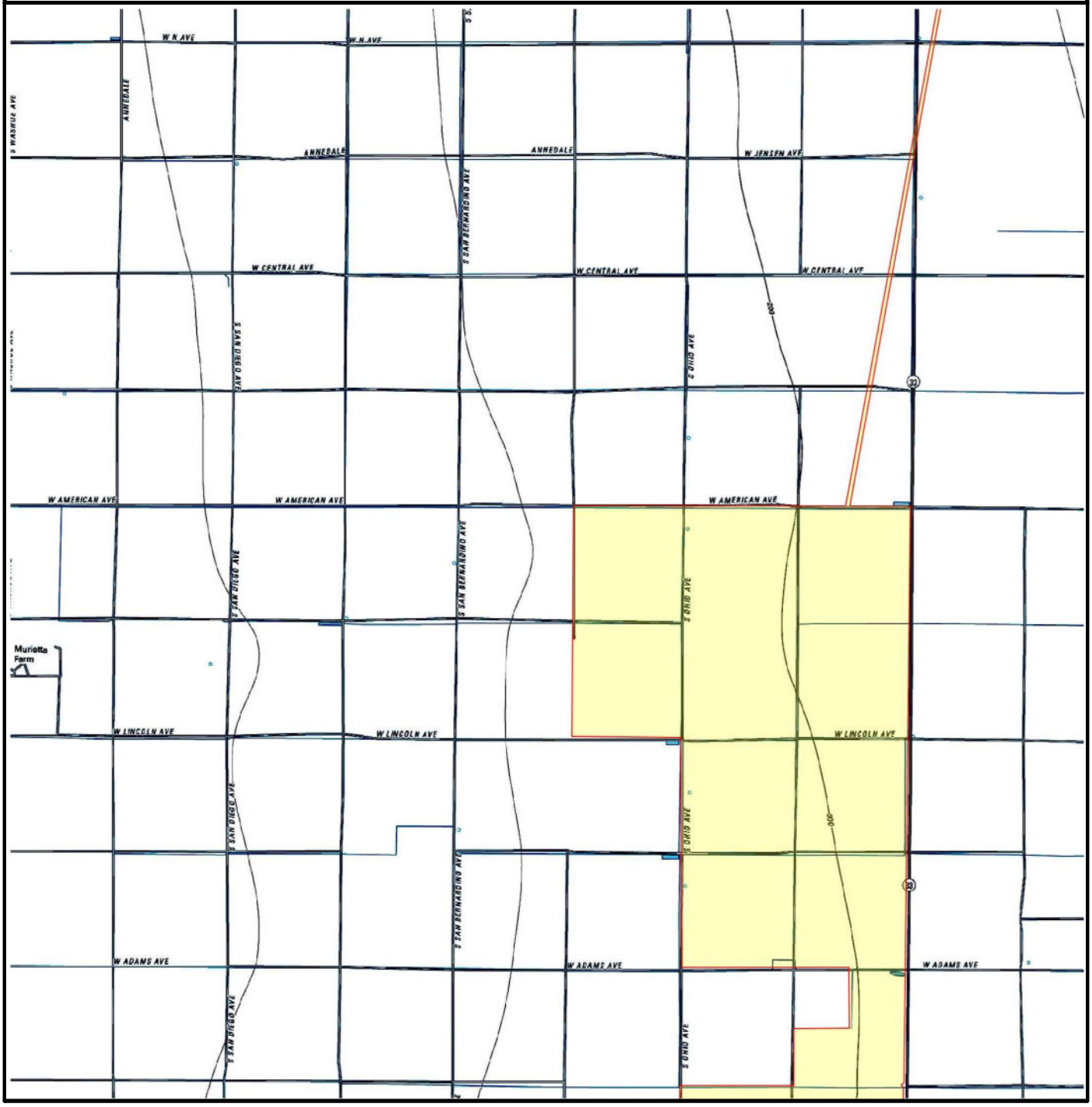
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit_Ranch MAP YEAR: 2012 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1



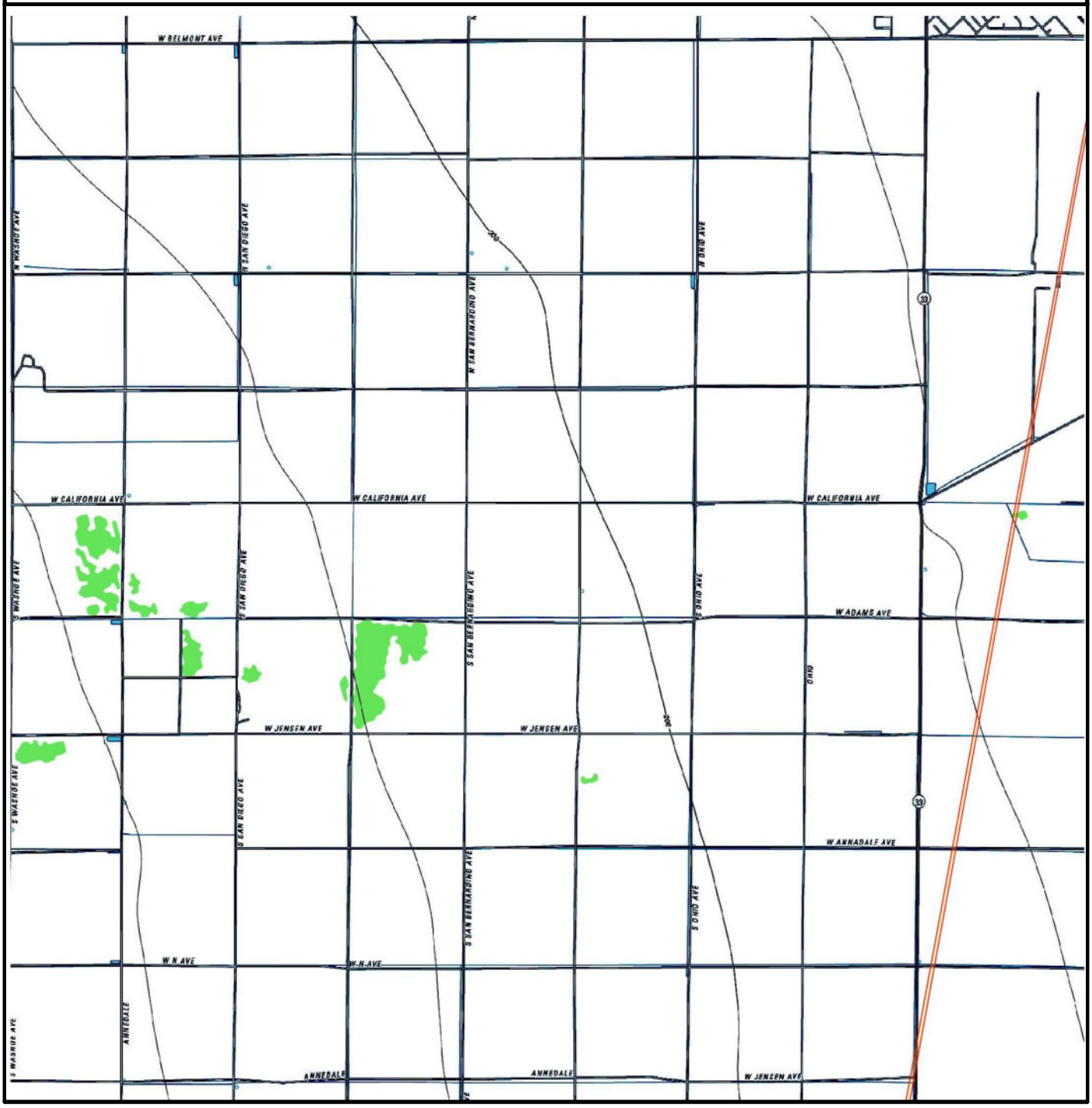
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit_Ranch MAP YEAR: 2012 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 2

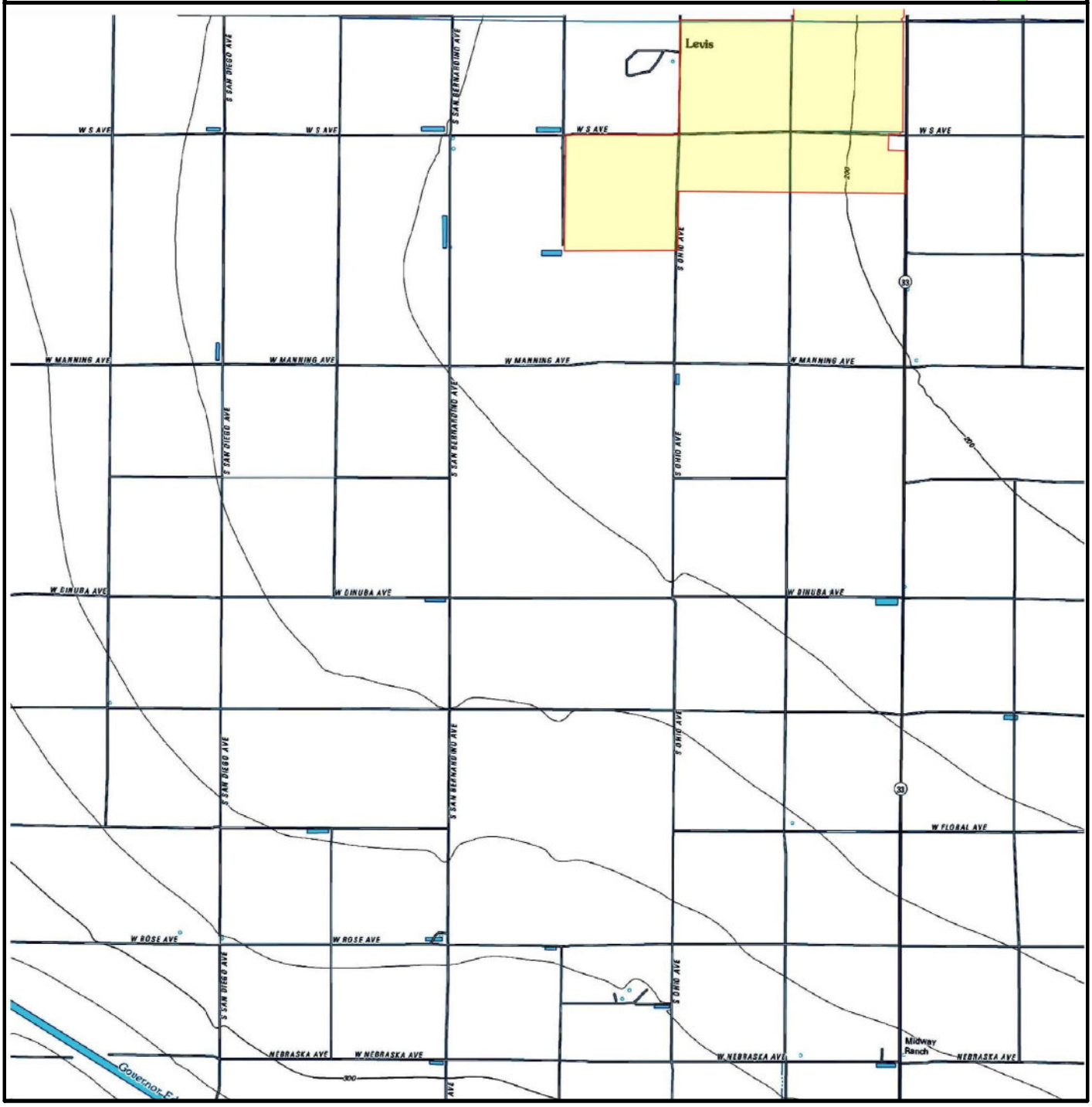


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Levis	MAP YEAR:	2012	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		



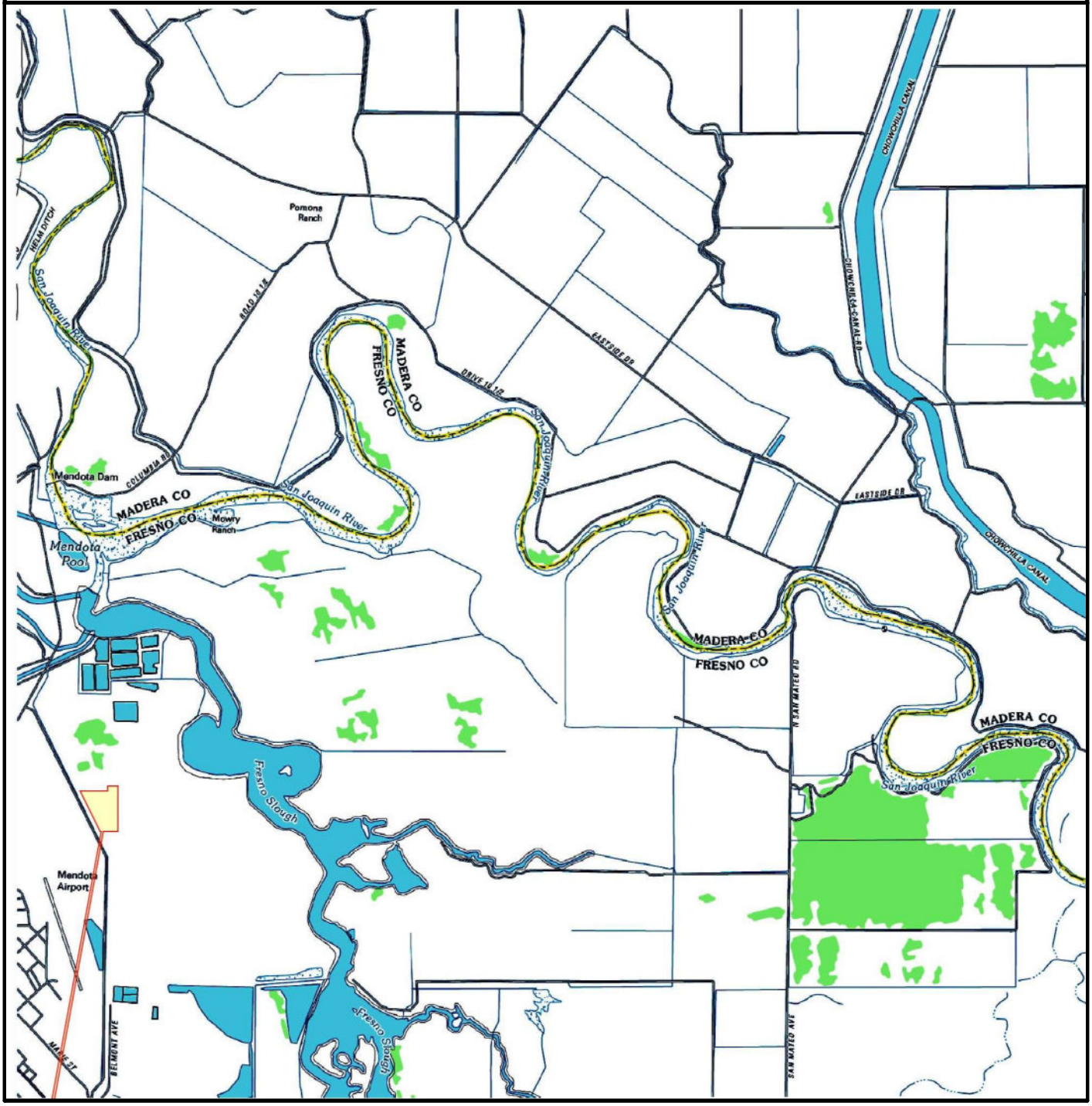
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Mendota_Dam MAP YEAR: 2012 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1



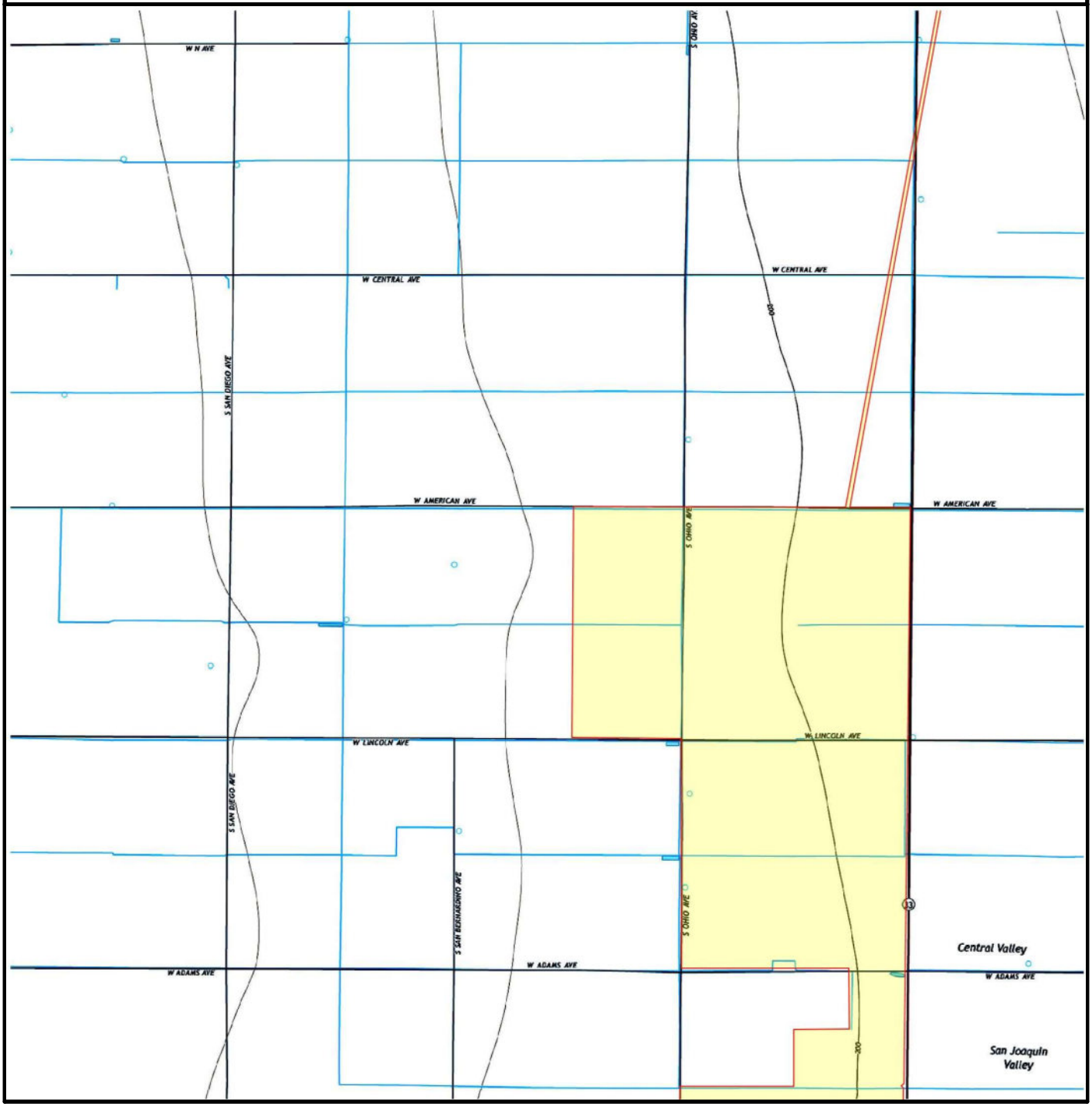
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit_Ranch MAP YEAR: 2015 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1



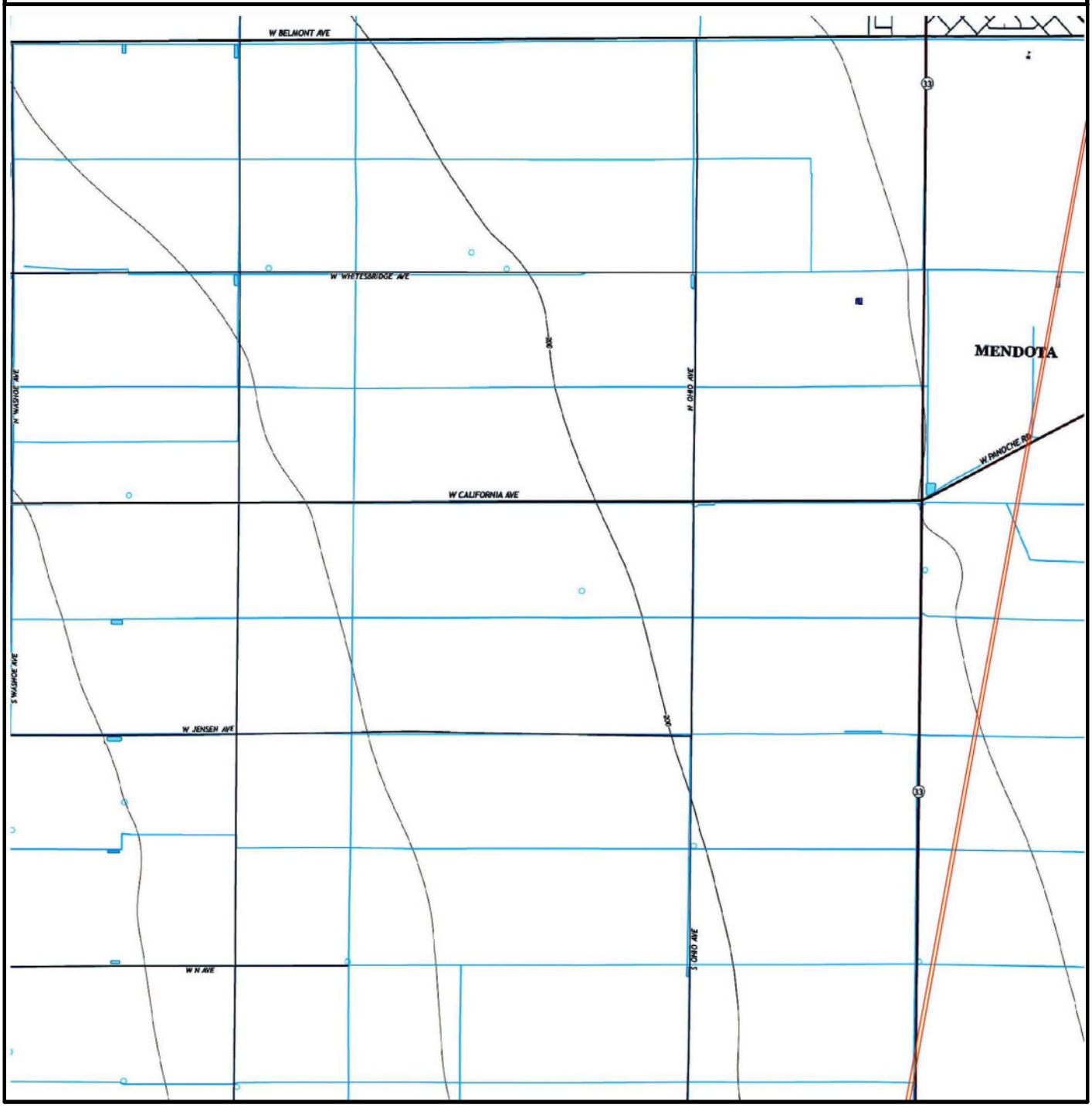
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit_Ranch MAP YEAR: 2015 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 2

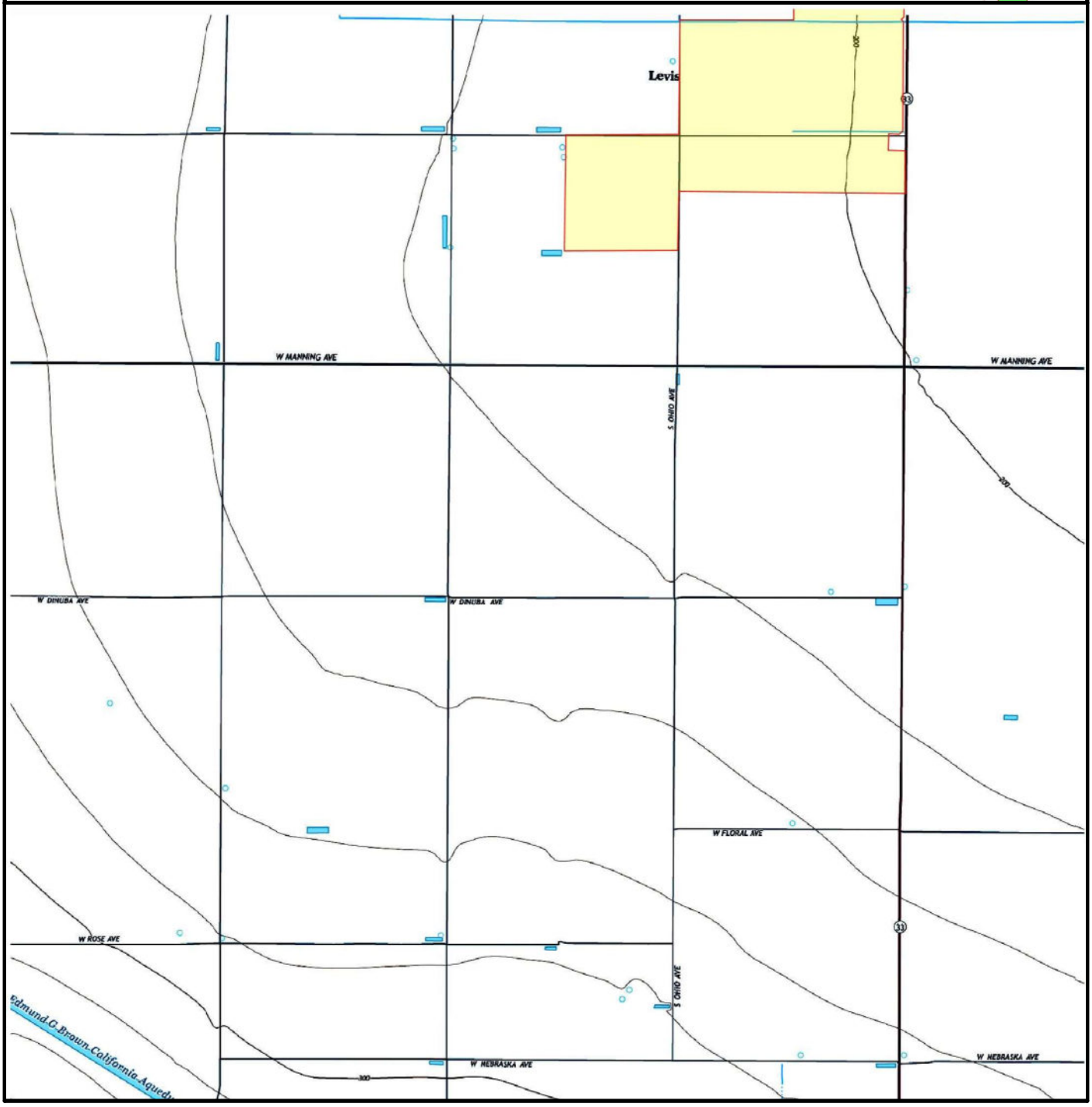


SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Levis	MAP YEAR:	2015	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		



SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME:	Mendota_Dam	MAP YEAR:	2015	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

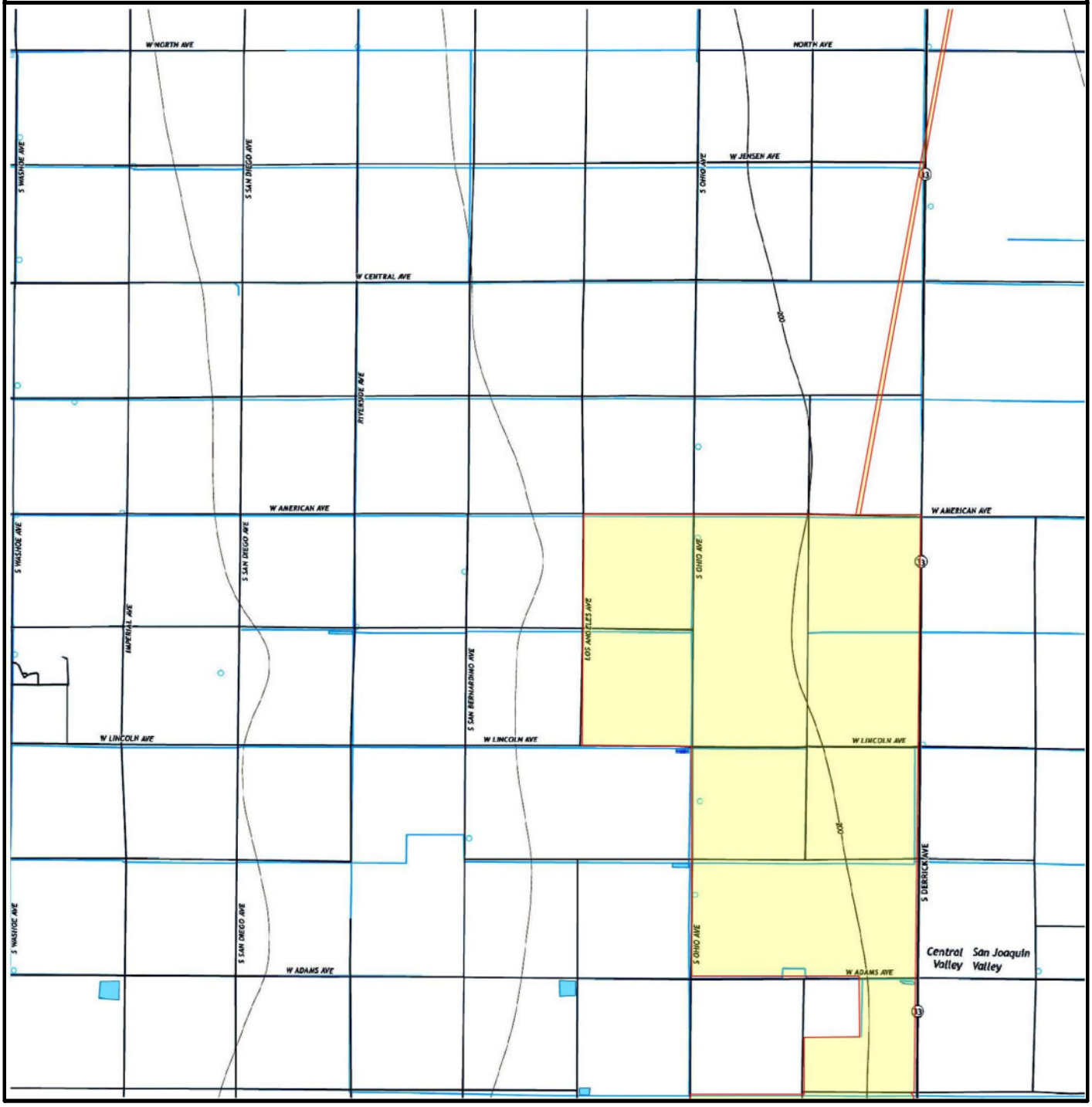
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit_Ranch MAP YEAR: 2021 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1



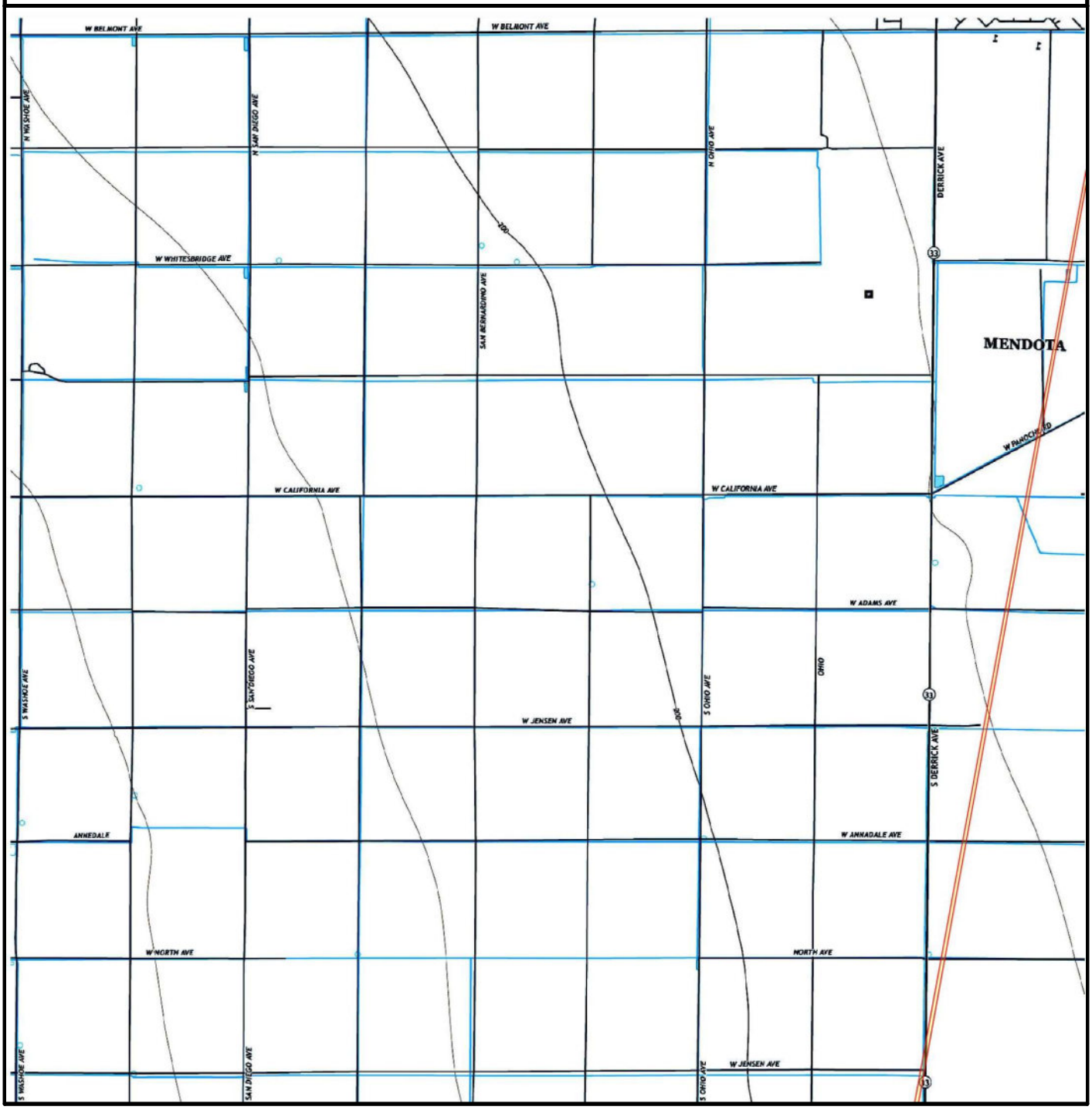
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Coit_Ranch MAP YEAR: 2021 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 2



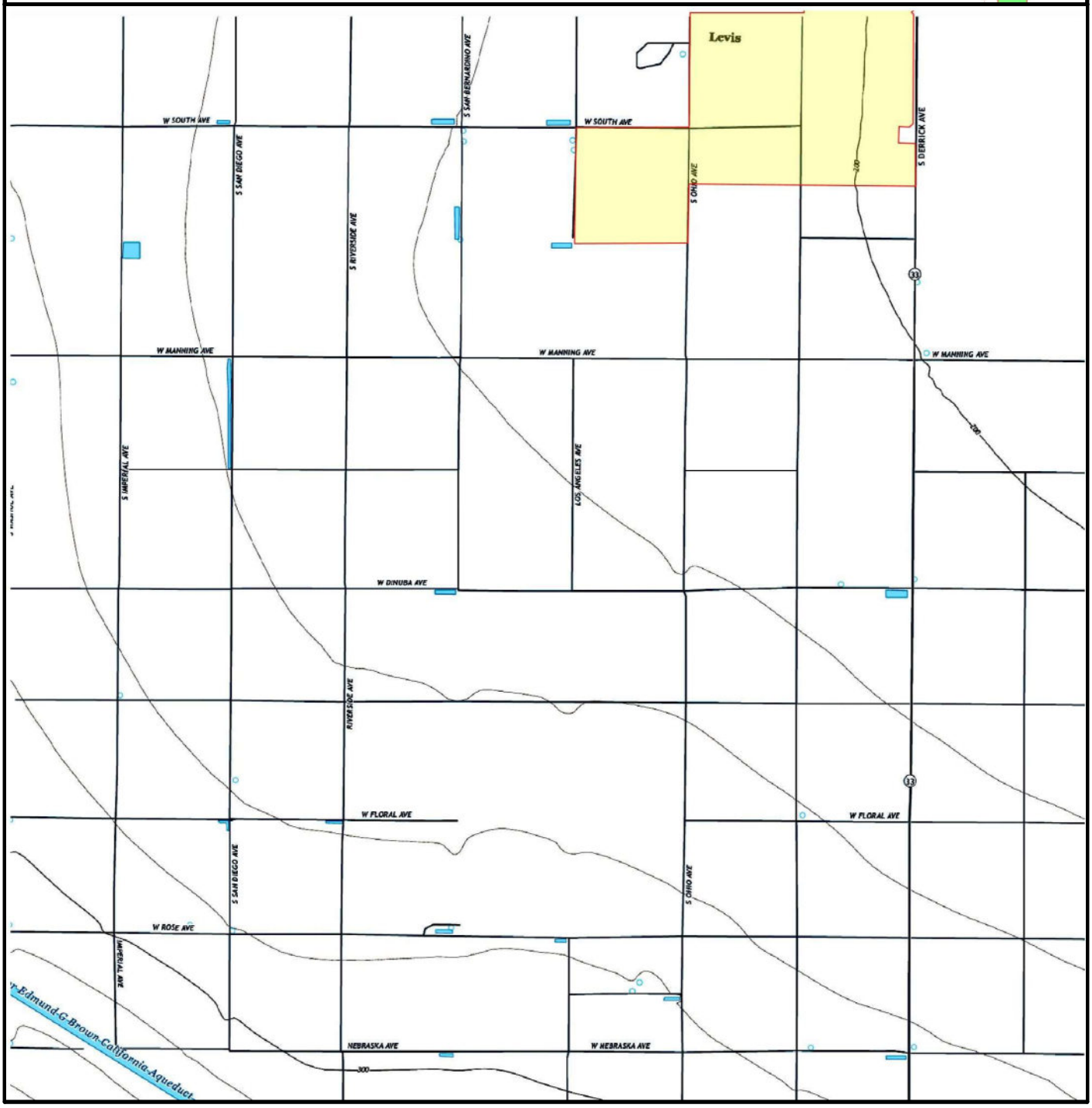
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Levis MAP YEAR: 2021 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1



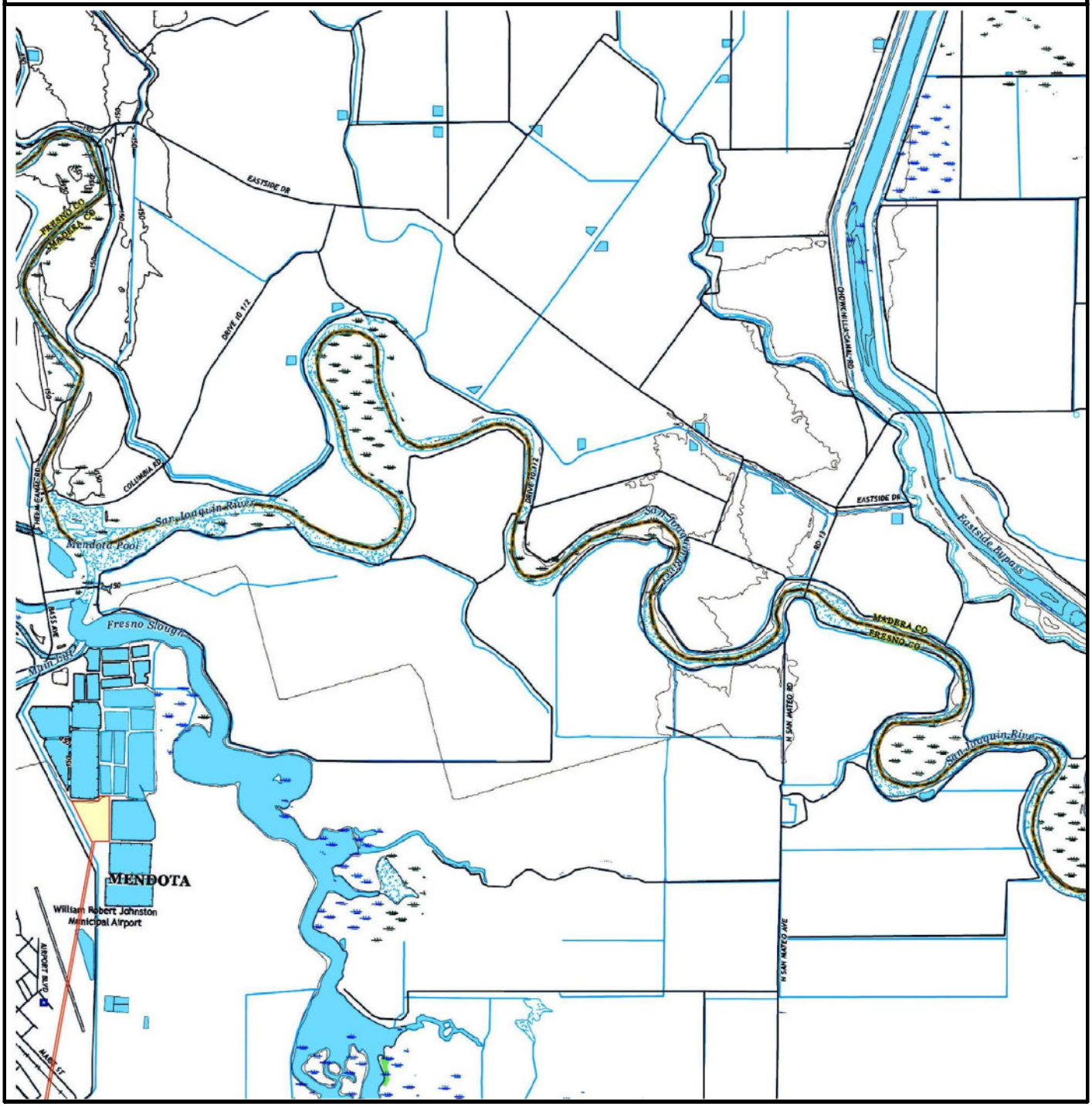
SUBJECT NAME: Route 33
ADDRESS: Route 33, Kerman, CA, 93630
LAT/LONG: 36.689912 / -120.391569

PREPARED FOR: Environmental Science Associates
ORDER #: 70138
REPORT DATE: 04/11/2022

SUBJECT QUAD:

MAP NAME: Mendota_Dam MAP YEAR: 2021 REVISION YEAR: N/R

SCALE: 1 : 24000 Part 1



Appendix I
Land Use and Planning

I1 Consistency with Fresno County General Plan

I2 Consistency with Fresno County's Solar Facility Guidelines

I1 Consistency with Fresno County General Plan

APPENDIX I1
Consistency with Fresno County General Plan

I.1 Approach to Analysis

Pursuant to California Environmental Quality Act (CEQA) Guidelines section 15125(d), this analysis describes applicable general plans and regional plans and policies and the manner in which they apply to the Heartland Solar Project (the Project), and then evaluates the consistency of the Project with these plans and policies. Each environmental resource section in Chapter 3, *Environmental Analysis*, identifies the applicable statutes, regulations, ordinances, plans, policies, and standards that pertain to that resource. The following analysis specifically addresses the Project's consistency with the Fresno County General Plan (Fresno County 2024). The consistency analysis for other applicable plans, policies, and regulations is provided in the pertinent topical sections of Chapter 3, in the context of the subject resource area. **Table I1-1** provides an index of such discussions, listing both CEQA significance criteria and location in this document where the reader can find the impact evaluation.

The Fresno County General Plan contains seven policy elements that guide physical development within the County: Economic Development; Agriculture and Land Use; Transportation and Circulation; Public Facilities and Services; Open Space and Conservation; Health and Safety; and Housing. Consistent with CEQA Guidelines section 15125(d), General Plan policies that are not relevant to the Project are not discussed here. For example, policies guiding County review of specific plans or policies related to land use designations that are not present within the Project boundary are not addressed.

Because the policy language found in a general plan is susceptible to varying interpretations, it is often difficult to determine whether a proposed project is consistent or inconsistent with such policies. Furthermore, because plans often contain numerous policies emphasizing differing legislative goals, a project may be consistent with a general plan, taken as a whole, even though it may appear to be inconsistent with specific policies within the plan. The board or commission that enacted the plan or policy generally determines the meaning of such policies; these interpretations prevail if they are "reasonable," even though other reasonable interpretations may also exist. In light of these considerations, the consistency evaluation in this Draft EIR reflects the County's determination that, as a whole, that the Project is consistent with applicable plans and policies.[1] Finally, the Project is compared to policies in each of the General Plan elements.

[1] The Project's physical environmental impacts are addressed on a resource-by-resource basis in draft EIR Chapter 3, *Environmental Analysis*. Any conflict between the Project and General Plan policies that results in an impact to the physical environment is analyzed in Chapter 3. The Project's consistency with Fresno County General Plan policies that do not impact the physical environment may be considered by decision-makers in deciding whether to approve or deny the Project.

TABLE I1-1
CEQA SIGNIFICANCE CRITERIA REQUIRING EVALUATION OF CONSISTENCY WITH PLANS AND POLICIES

Significance Criteria (from Appendix G of the CEQA Guidelines)	EIR Section
Substantially damage scenic resources, including but not limited to trees, rock outcroppings, and historic buildings within a state or locally designated scenic highway	Section 3.2, *Aesthetics*
Conflict with existing zoning for agricultural use, or a Williamson Act contract	Section 3.3, *Agriculture and Forestry Resources*
Conflict with or obstruct implementation of the applicable air quality plan	Section 3.4, *Air Quality*
Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance	Section 3.5, *Biological Resources*
Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.	Section 3.5, *Biological Resources*
Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs.	Section 3.9, *Greenhouse Gas Emissions*
Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.	Section 3.12, *Land Use and Planning*
Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan	Section 3.13, *Mineral Resources*
Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies	Section 3.14, *Noise and Acoustics*
Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit.	Section 3.18, *Transportation*
Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities.	Section 3.18, *Transportation*

Tables I1-2 through I1-6 summarize the Project's consistency with applicable objectives, goals, and policies of the Fresno County General Plan is discussed below. As shown in the table, after the implementation of the various mitigation measures identified in this Draft EIR, the Project would be consistent with applicable objectives, goals, and policies.

I.2 Consistency with the Fresno County General Plan Agriculture and Land Use Element

The Agriculture and Land Use Element describes the Countywide land use concept and is intended to help the County achieve integrated and coordinated land use, open space, and transportation by defining areas of intended growth and areas that should be preserved.

The Project site is zoned AE-20, Exclusive Agricultural with a minimum lot size of 20 acres (Fresno County 2011). As indicated in section 816 of the Fresno County Zoning Code, permitted uses in AE districts include raising livestock, poultry, and plant crops; single-family residences and accessory and farm buildings; and other agricultural and home occupation uses. Electrical

transmission and distribution substations are allowed in AE districts subject to director review and approval (section 816.2(D)). Additionally, Fresno County processes PV solar facilities through the Unclassified Conditional Use Permit process based on section 853.B(14) of the Zoning Ordinance. Although the Project would occupy land designated as agriculture, it would not conflict with the County's preservation and conservation objectives. The Project's physical environmental impacts on habitat, recreation, scenic values, mineral resource extraction, and natural resource preservation are discussed in Chapter 3 of this Draft EIR. **Table I1-2** evaluates the Project's consistency with the Countywide agriculture and land use policies.

TABLE I1-2
FRESNO COUNTY GENERAL PLAN AGRICULTURE AND LAND USE ELEMENT POLICIES

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy LU-A.1: Agricultural Land Conservation. The County shall maintain agriculturally-designated areas for agriculture use and shall direct urban growth away from valuable agricultural lands to cities, unincorporated communities, and other areas planned for such development where public facilities and infrastructure are available or can be provided consistent with the adopted General or Community Plan,	***Consistent.*** The Project site is zoned AE20, Exclusive Agricultural. As indicated in Section 816.2(D) of the Fresno County Zoning Code, permitted uses in AE districts include electrical transmission and distribution, and so would include the gen-tie line proposed as part of the Project.
Policy LU-A.2: Agriculture-related Uses. The County shall allow by right in areas designated Agriculture activities related to the production of food and fiber and support uses incidental and secondary to the on-site agricultural operation.	***Consistent.*** The Project site is zoned AE20, Exclusive Agricultural. As indicated in Section 816.2(D) of the Fresno County Zoning Code, permitted uses in AE districts include electrical transmission and distribution, and so would include the gen-tie line proposed as part of the Project.
Policy LU-A.3: Special Agricultural Uses. The County may allow by discretionary permit in areas designated Agriculture, special agricultural uses and agriculturally-related activities, including value added processing facilities, and certain non-agricultural uses. Approval of these and similar uses in areas designated Agriculture shall be subject to the following applicable criteria: a. The use shall provide a needed service to the surrounding agricultural area which cannot be provided more efficiently within urban areas or which requires location in a non-urban area because of unusual site requirements or operational characteristics; b. The use should not be sited on productive agricultural lands if less productive land is available in the vicinity; c. The operational or physical characteristics of the use shall not have a detrimental impact on water resources or the use or management of surrounding properties within at least one-quarter (1/4) mile radius; d. A probable workforce should be located nearby or be readily available; e. For proposed agricultural commercial center uses the following additional criteria shall apply: 1. Commercial uses should be clustered in centers instead of single uses. 2. To minimize proliferation of commercial centers and overlapping of trade areas, commercial centers shall be located a minimum of two (2) miles from a city sphere of influence and four (4) miles from any existing or approved agricultural or rural residential commercial center or designated commercial area. 3. New commercial uses should be located within or adjacent to existing centers. 4. Sites should be located on a major road serving the surrounding area.	***Not applicable.*** The Project is not requesting discretionary permit authorization for agricultural uses of the type contemplated in this policy.

Goal/Objective/Policy Text	Project Consistency Evaluation
5. Commercial centers should not encompass more than one-quarter (1/4) mile of road frontage, or one eighth (1/8) mile if both sides of the road are involved, and should not provide potential for developments exceeding ten (10) separate business activities, exclusive of caretakers' residences; f. For proposed value-added agricultural processing facilities, the evaluation under criteria "a" above, shall consider the service requirements of the use and the capability and capacity of cities and unincorporated communities to provide the required services; and g. For proposed churches and schools, the evaluation under criteria LU-A.3a above shall include consideration of the size of the facility. Such facilities should be no larger than needed to serve the surrounding agricultural community. h. When approving a discretionary permit for an existing commercial use, the criteria listed above shall apply except for LU-A.3b, e2, e4, and e5. (RDR)	
Policy LU-A.4: Resource Extraction in Agricultural Areas. The County shall require that the recovery of mineral resources and the exploration and extraction of oil and natural gas in areas designated Agriculture comply with the Mineral Resources Section of the Open Space and Conservation Element.	***Not applicable.*** The Project does not include mineral resources recovery of oil and natural gas extraction.
Policy LU-A.5: Existing Agricultural Commercial Center Zoning. The County shall allow the Agricultural Commercial (AC) center zone district to remain in areas designated Agriculture if the land was so zoned prior to September 20, 1990. Commercial uses legally established prior to that date shall be deemed conforming, but expansion or the addition of new commercial uses shall require a discretionary permit as provided in Policy LU-A.3.	***Not applicable.*** The Project site is zoned AE20, Exclusive Agricultural.
Policy LU-A.6: Minimum Agricultural Parcel Size. The County shall maintain twenty (20) acres as the minimum permitted parcel size in areas designated Agriculture, except as provided in Policies LU-A.9, LUA. 10, and LU-A.11. The County may require parcel sizes larger than twenty (20) acres based on zoning, local agricultural conditions, and to help ensure the viability of agricultural operations.	***Not applicable.*** The Project does not include subdivision of land into smaller parcels.
Policy LU-A.7: Exceptions to Minimum Agricultural Parcel Size. The County shall generally deny requests to create parcels less than the minimum size specified in Policy LU-A.6 based on concerns that these parcels are less viable economic farming units, and that the resultant increase in residential density increases the potential for conflict with normal agricultural practices on adjacent parcels. Evidence that the affected parcel may be an uneconomic farming unit due to its current size, soil conditions, or other factors shall not alone be considered a sufficient basis to grant an exception. The decision-making body shall consider the negative incremental and cumulative effects such land divisions have on the agricultural community.	***Not applicable.*** The Project does not include subdivision of land into smaller parcels.
Policy LU-A.8: Agricultural Parcel Density. The County shall allow by right on each parcel designated Agriculture and zoned for agricultural use one (1) single family residential unit. One (1) additional single family residential unit shall be allowed for each twenty (20) acres in excess of twenty (20) acres where the required minimum parcel size is twenty (20) acres. One (1) additional single family residential unit shall be allowed for each forty (40) acres in excess of forty (40) acres where the required minimum parcel size is forty (40) acres. The County may, by discretionary permit, allow a second unit on parcels otherwise limited by this policy to a single unit.	***Not applicable.*** The Project does not propose any dwelling units.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy LU-A.9: Homesite Minimum Parcel Size Exceptions. The County may allow creation of homesite parcels smaller than the minimum parcel size required by Policy LU-A.6, if the parcel involved in the division is at least twenty (20) acres in size, subject to the following criteria: a. The minimum lot size shall be sixty thousand (60,000) square feet of gross area, except that a lesser area shall be permitted when the owner submits evidence satisfactory to the Health Officer that the soils meet the Water Quality Control Board Guidelines for liquid waste disposal, but in no event shall the lot be less than one (1) gross acre; and b. One of the following conditions exists: 1. A lot less than twenty (20) acres is required for financing construction of a residence to be owned and occupied by the owner of abutting property; or 2. The lot or lots to be created are intended for use by persons involved in the farming operation and related to the owner by adoption, blood, or marriage within the second degree of consanguinity, there is only one (1) lot per related person, and there is no more than one (1) gift lot per twenty (20) acres; or 3. The present owner owned the property prior to the date these policies were implemented and wishes to retain his/her homesite and sell the remaining acreage for agricultural purposes. Each homesite created pursuant to this policy shall reduce by one (1) the number of residential units otherwise authorized on the remainder parcel created from the original parcel. The remainder parcel shall be entitled to no less than one residential unit.	***Not applicable.*** The Project does not propose the creation of homesites.
Policy LU-A.10: Substandard Lots for Agricultural Commercial. The County may allow by discretionary permit creation of substandard lots when necessary for the development of an agricultural commercial center pursuant to Policy LU-A.3 or in conjunction with development within a designated commercial interchange within the Westside Freeway Corridor Overlay. Approval of such parcels shall take into consideration the proposed use of the property, surrounding uses, and the potential for abandonment of the planned commercial use at a future date. Appropriate conditions shall be applied to minimize adverse impacts on surrounding agricultural operations. Parcels for agricultural commercial centers shall in no case be less than one (1) gross acre	***Not applicable.*** The Project does not propose an agricultural commercial center.
Policy LU-A.11: Substandard Lots for Resource Exploration and Extraction. The County may allow by discretionary permit creation of substandard size lots when such action is deemed necessary by the Board of Supervisors for the recovery of mineral resources and the exploration and extraction of oil and gas in accordance with the policies of Section OS-C, Mineral Resources, of the Open Space and Conservation Element. In no case shall such action result in creation of lots less than five (5) gross acres in size.	***Not applicable.*** The Project does not include mineral resources recovery of oil and natural gas extraction.
Policy LU-A.12: Agricultural Protection. In adopting land uses policies, regulations and programs, the County shall seek to protect agricultural activities from encroachment of incompatible land uses.	***Consistent.*** This policy is intended to guide the efficient use of land within the County. The General Plan acknowledges the need to provide the necessary infrastructure, services, and resources to accommodate planned growth. The Project would not be an inefficient use of land because it would not adversely affect the County's ability to direct growth into strategically located centers or existing developed areas; rather, it would be remotely located but would serve the County's anticipated growth. This Draft EIR evaluates the Project's impacts to the environment, infrastructure, and services. The County may consider economic impacts separate from the CEQA process when deciding whether to approve the requested permit applications.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy LU-A.13: Agricultural Buffers. The County shall protect agricultural operations from conflicts with nonagricultural uses by requiring buffers between proposed non-agricultural uses and adjacent agricultural operations. Additionally, the County shall consider buffers between agricultural uses and proposed sensitive receptors when processing discretionary land use applications.	***Consistent.*** The Project would maintain a buffer between the Project and adjacent agricultural operations and would implement a reclamation plan to return the site to a state of readiness for agricultural use after Project decommissioning. Section 3.3, *Agriculture and Forestry Resources* discusses potential impacts to agricultural resources.
Policy LU-A.14: Agricultural Land Conversion Review. The County shall ensure that the review of discretionary permits includes an assessment of the conversion of productive agricultural land and that mitigation be required where appropriate.	***Consistent.*** The Project site is zoned AE20, Exclusive Agricultural. As indicated in section 816.2(D) of the Fresno County Zoning Code, permitted uses in AE districts include electrical transmission and distribution substations, and so would include the gen-tie line proposed as part of the Project.
Policy LU-A.15: Right-to-Farm Notice. The County shall generally condition discretionary permits for residential development within or adjacent to agricultural areas upon the recording of a Right-to-Farm Notice, which is an acknowledgment that residents in the area should be prepared to accept the inconveniences and discomfort associated with normal farming activities and that an established agricultural operation shall not be considered a nuisance due to changes in the surrounding area.	***Consistent.*** Although the Project does not include residential development, the Applicant would be required to record with the County recorder a Right-to-Farm Notice indicating that adjacent agricultural operations shall not become a nuisance due to the changed condition of the Project site.
Policy LU-A.16: Agricultural Land Preservation Programs. The County should consider the use of agricultural land preservation programs that improve the competitive capabilities of farms and ranches, thereby ensuring long-term conservation of viable agricultural operations. Examples of programs to be considered should include: land trusts; conservation easements; dedication incentives; new and continued Williamson Act contracts; Farmland Security Act contracts; the California Farmland Conservancy Program Fund; agricultural education programs; zoning regulations; agricultural mitigation fee program; urban growth boundaries; transfer of development rights; purchase of development rights; and agricultural buffer policies.	***Not applicable.*** The Project does not conflict with the County's ability to establish agricultural preservation programs. The Project site is not under Williamson Act contract.
Policy LU-A.17: Williamson Act Contracts. The County should accept Williamson Act contracts on all designated agricultural land subject to location, acreage, and use limitations established by the County provided that the County receives full subvention payment as partial replacement of local property tax revenue foregone as a result of participating in the Williamson Act program. All development and uses and activities that occur on land under contract shall comply with the requirements of the California Land Conservation Act and adopted County Rules.	***Not applicable.*** The Project does not propose to enter into a Williamson Act contract.
Policy LU-A.18: Land Improvement Programs. The County shall encourage land improvement programs to increase soil productivity in areas containing lesser quality agricultural soils.	***Not applicable.*** The Project would not conflict with the County's ability to encourage land improvement programs.
Policy LU-A.19: Reduced Soil Erosion. The County shall encourage landowners to participate in programs that reduce soil erosion and increase soil productivity. To this end, the County shall promote coordination between the Natural Resources Conservation Service, Resource Conservation Districts, UC Cooperative Extension, and other agencies and organizations.	***Consistent.*** Section 3.8, *Geology, Soils, and Paleontological Resources*, evaluates potential erosion-related impacts. The Project would comply with a Construction General Permit, and implementation of a Stormwater Pollution Prevention Plan (SWPPP) would limit the impact of construction-related soil erosion by enacting best management practices (BMPs) to address sediment control and limit erosion, such as installation of silt fencing and implementation of temporary sediment disposal measures. The Project does not affect the County's ability to promote interagency coordination.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy LU-A.20: Water Resources. The County shall adopt and support policies and programs that seek to protect and enhance surface water and groundwater resources critical to agriculture.	***Not applicable.*** The Project does not affect the County's ability to adopt or support policies and programs that seek to protect and enhance surface water and groundwater resources critical to agriculture.
LU-A.21: Public Education Programs. The County shall support and participate in ongoing public education programs by organizations such as the County Agricultural Commissioner's Office, UC Cooperative Extension, Farm Bureau, and industry organizations to help the public better understand the importance of the agricultural industry. (PI/IGC/JP)	***Not applicable.*** The Project would not impede the County's participation in public agricultural education programs.
Program LU-A.22: Drought Impacts. The County shall adopt and support policies and programs that seek to minimize the impact of reoccurring drought conditions on ground water supply and the agricultural industry.	***Consistent.*** The Project would comply with the Fresno County Water Conservation Ordinance (Ordinance Chapter 14.01, *Water Conservation*, section 14.01.010 et seq.). The Project would comply with water conservation measures outlined in the ordinance, as necessary, which would include drought considerations.
Policies LU-A.23: Farmland Conversion. For discretionary land use projects that are not directly related to or supportive of agricultural uses and which propose the permanent conversion of twenty acres or more of Prime Farmland, Unique Farmland or Farmland of Statewide Importance (as designated by the Farmland Mapping and Monitoring Program) to nonagricultural uses, the County shall consider and adopt feasible measures including, but not limited to: • Acquisition of conservation easements at a 1:1 ratio for lands lost to nonagricultural uses. • Fee title of agricultural mitigation land that may be held by a third party or the County. • In lieu fees paid to the County that may be used to acquire future mitigation property. • Mitigation banks. The County may exempt projects from agricultural mitigation requirements when it has been determined that conversion is occurring pursuant to a local groundwater sustainability plan, or the project is for housing which is predominately for persons of low or moderate income as defined in section 50093 of the Health and Safety Code. Further, the County may exempt discretionary land use projects from agricultural mitigation requirements if it finds that the loss of agricultural land caused by the proposed conversion is outweighed by specific overriding economic, legal, social, technological, or other benefits of the conversion, as contemplated by section 21081(b) of the Public Resources Code.	***Consistent.*** Although much of the Farmland of Statewide Importance adjacent to the Project site is protected under Williamson Act contracts, the land use site evaluation (LESA) found no significant impact on agricultural land use. The Project would not directly convert any Farmland and would include measures to limit impacts to adjacent agricultural land uses. ***Consistent.*** Although the Project does not include residential development, the Applicant would be required to record with the County recorder a Right-to-Farm Notice indicating that adjacent agricultural operations shall not become a nuisance due to the changed condition of the Project site.
Policies LU-A.24: Important Farmland Map. The County shall encourage the State of California Department of Conservation to update its Important Farmland Map in consideration of recent restrictions to groundwater pumping, reduced access to surface water and the potential loss of irrigable land.	***Not Applicable.*** The Project would not conflict with the County's ability to encourage the State of California Department of Conservation to update its Important Farmland Map.
Policies LU-B.1 – LU-B.14	***Not Applicable.*** The Project is not located within the Westside Rangelands Area.
Policies LU-C.1 – LU-C.10	***Not Applicable.*** The Project is not located within the River Influence Areas.
Policies LU-D.1 – LU-D.7	***Not Applicable.*** The Project is not located within the Westside Freeway Corridor.
Policies LU-E.1 – LU-E.28	***Not Applicable.*** The Project does not include Rural Residential development.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policies LU-F.1 – LU-F.42	***Not Applicable.*** The Project does not include Urban Transit, Residential, Commercial, or Industrial development.
Policies LU-G.1 – LU-G.23	***Not Applicable.*** The Project is not located within the incorporated or City fringe areas or an unincorporated community.

I.3 Consistency with Other Elements of the Fresno County General Plan

I.3.1 Transportation and Circulation Element

Fresno County's General Plan includes policies regarding access and safety standards of roadway facilities, bike facilities, and public transit. Although the General Plan seeks to coordinate multiple forms of transportation, including cars, commercial vehicles, buses, transit, bicycles, and pedestrian traffic, the General Plan does not contain specific policies governing pedestrian traffic.

The Project would not conflict with the objectives and policies of the Transportation and Circulation Element. As described in Section 3.18, *Transportation*, no public transportation services or dedicated pedestrian or bicycle facilities are on roads that access the Project site, and neither State Route (SR) 33 nor other roadways that would be traveled by Project traffic are listed within the Transportation and Circulation Element as an "existing or planned bikeway." The proposed development of the Project site would not introduce a barrier to non-motorized travel. Although the Project would not be located near mass transit services, it would not impede the future development of the types of circulation systems envisioned by the General Plan because it would not occupy land that would be needed to create transportation corridors or result in any other long-term changes that would adversely affect transportation in the County.

Project consistency with specific Transportation and Circulation Element policies is presented in **Table I1-3** below.

I.3.2 Public Facilities and Services Element

The Public Facilities and Services Element of the Fresno County General Plan contains goals, policies, and implementation program measures to ensure public facilities and services are adequately available and accessible in a timely fashion to serve new development. The Project's impacts with respect to public services, including police, fire, and education services, are primarily addressed in Sections 3.16, *Public Services*, and 3.10, *Hazards and Hazardous Materials.* Project consistency with specific Public Facilities and Services Element policies is presented in **Table I1-4** below.

TABLE I1-3
FRESNO COUNTY GENERAL PLAN TRANSPORTATION AND CIRCULATION ELEMENT POLICIES

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy TR-A.4: Roadway Access. The County shall require that new or modified access to property abutting a roadway and to intersecting roads conform to access specifications in the Circulation Diagram and Standards section. Exceptions to the access standards may be permitted in the manner and form prescribed in the Fresno County Zoning and Subdivision Ordinances, provided that the designed safety and operational characteristics of the existing and planned roadway facility will not be substantially diminished.	***Consistent.*** Project related traffic would have a less than significant impact related to local roadways abutting the Project site. Design and construction of Project access road intersections would conform with Fresno County standards (per General Plan Policies). Applicable requirements include rights-of-way and setbacks.
Policy TR-A.6: Rights-of-Way Dedications. The County shall require dedication of right-of-way or dedication and construction of planned road facilities as a condition of land development, and require an analysis of impacts of traffic from all land development projects including impacts from truck traffic. Each such project shall construct or fund improvements necessary to mitigate the effects of traffic from the project. The County may allow a project to fund a fair share of improvements that provide significant benefit to others through traffic impact fees.	***Consistent.*** An assessment of potential traffic impacts, including truck traffic, is provided in Section 3.18, *Transportation*.
Policy TR-A.10: Roadway Improvements. The County shall ensure that land development that affects roadway use or operation or requires roadway access to plan, dedicate, and construct required improvements consistent with the criteria in the Circulation Diagram and Standards section of this element.	***Consistent.*** Local access to the Project site would be provided consistent with Circulation Diagram and Standards criteria. Section 3.18, *Transportation*, notes that design and construction of Project access road intersections would be required to conform with Fresno County standards.

TABLE I1-4
FRESNO COUNTY GENERAL PLAN PUBLIC FACILITIES AND SERVICES ELEMENT POLICIES

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy PF-C.3: Surface Water Use. To reduce demand on the County's groundwater resources, the County shall encourage the use of surface water to the maximum extent feasible.	***Consistent.*** As analyzed in Section 3.11, *Hydrology and Water Quality*, the Project would have a less than significant impact to groundwater resources. Groundwater extraction associated with construction, operation, and decommissioning would be regulated to ensure that it does not cause substantial depletion of the groundwater basin.
Policy PF-C.23: Water Conservation Technologies. The County shall require that all new development within the County use water conservation technologies, methods, and practices as established by the County.	***Consistent.*** The Project would comply with the Fresno County Water Conservation Ordinance (Ordinance Chapter 14.01, *Water Conservation*, section 14.01.010 et seq.). The Project would comply with water conservation measures outlined in the ordinance, as necessary.
Policy PF-D.6: On-site Sewage Disposal Systems. The County shall permit individual on-site sewage disposal systems on parcels that have the area, soils, and other characteristics that permit installation of such disposal facilities without threatening surface or groundwater quality or posing any other health hazards and where community sewer service is not available and cannot be provided.	***Consistent.*** The Project would use portable restrooms or a septic system, which would be installed for sanitary facilities in the O&M building. If an in-ground septic system is constructed it would include a 750-gallon septic tank and an approximately 3,000 square foot leech field. Either the septic tank and leech field or portable restrooms would be installed consistent with setback and Fresno County Local Area Management Program (LAMP) design requirements and maintained in accordance with County LAMP and state requirements governing on-site waste management systems.
Policy PF-E.7: Fair-share of Costs. The County shall require new development to pay its fair share of the costs of Fresno County storm drainage and flood control improvements within unincorporated areas.	***Consistent.*** The Project is not located in an area with an existing or planned (County) stormwater drainage system. Any stormwater retention systems proposed as part of the Project would be designed to meet Fresno County and the State Water Resources Control Board requirements. Development fees, as applicable, could be imposed as a (CUP) permit condition.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy PF-E.11: Natural Site Drainage Patterns. The County shall encourage project designs that minimize drainage concentrations and maintain, to the extent feasible, natural site drainage patterns.	***Consistent.*** The Project would not substantially alter the existing drainage pattern of the area. The Project would be designed to minimize substantial alterations to drainage patterns on the Project site. The slight increase in runoff generated from the impervious surfaces would likely infiltrate into the ground over a short distance. Rain falling onto the solar arrays would drain onto the ground underneath, which would remain pervious.
Policy PF-E.13: Natural Storm Water Drainage Systems. The County shall encourage the use of natural storm water drainage systems to preserve and enhance natural drainage features.	***Consistent.*** The Project is not located in an area with an existing or planned (County) stormwater drainage system.
Policy PF-E.14: Retention-Recharge Basins. The County shall encourage the use of retention-recharge basins for the conservation of water and the recharging of the groundwater supply.	***Consistent.*** The Project proposes to construct retention-recharge basins if deemed necessary by the County. See Chapter 2, *Project Description*.
Policy PF-E.21: Best Management Practices. The County shall require the use of feasible and practical best management practices (BMPs) to protect streams from the adverse effects of construction activities, and shall encourage the urban storm drainage systems and agricultural activities to use BMPs.	***Consistent.*** None of the new impervious surfaces would be adjacent to or otherwise directly connected to a stream. Section 3.8, *Geology, Soils, and Paleontological Resources*, evaluates potential erosion-related impacts. The Project would comply with a Construction General Permit, and implementation of a SWPPP would limit the impact of construction-related soil erosion by enacting BMPs to address sediment control and limit erosion, such as installation of silt fencing and implementation of temporary sediment disposal measures. Operation of the Project would not include activities that are likely to cause erosion. The Project proposes to revegetate the Project site as part of the proposed closure, decommissioning, and reclamation plan (see Draft EIR Appendix B2). The Project does not include tree removal or construction in creeks or riparian areas.
Policy PF-F.1: Solid Waste Source Reduction. The County shall continue to promote maximum use of solid waste source reduction, reuse, recycling, composting, and environmentally-safe transformation of wastes.	***Consistent.*** The Project would be required to comply with Fresno County's Construction and Demolition (C&D) Debris Recycling Program which requires a Waste Management Plan for recycling a minimum of 50 percent of all non-hazardous waste. Wooden construction waste would be sold, recycled, or chipped and spread on the Project site for weed control as appropriate. Other compostable materials, such as vegetation, might also be composted off-site. Operation and maintenance activities would produce negligible volumes of solid and liquid wastes that would be disposed of in accordance with all applicable requirements.
Policy PF-F.5: County Integrated Waste Management Plan. The County shall ensure that all new development complies with applicable provisions of the County Integrated Waste Management Plan	***Consistent.*** The Project would generate solid waste during construction, operation and maintenance, and decommissioning activities. All handling and processing of construction, demolition, and inert debris would be in accordance with applicable regulatory requirements. Landfill waste generated by the Project would not exceed its permitted daily tonnage or deplete substantial long-term capacity.
Policy PF-J.3: On-site Underground Utility Lines. The County shall require all new residential development along with new urban commercial and industrial development to underground utility lines onsite.	***Generally Consistent.*** The Project would include both underground and overhead interconnection and distribution lines.
Goal PF-G. To protect life and property by deterring crime and ensuring the prompt an efficient provision of law enforcement service and facility needs to meet the growing demand for police services associated with an increasing population.	***Consistent.*** The Project would not conflict with the County's ability to provide efficient law enforcement services. Police protection primarily may be required for incidents such as the theft of construction equipment and/or vandalism of the Project. To ensure Facility security, offsite security personnel could be dispatched during nighttime hours or could be onsite. In addition, appropriate security measures would be implemented to ensure control of site access and minimize security risks.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy PF-G.2: Law Enforcement Staffing Standards. The County shall strive to maintain a staffing ratio of two (2) sworn officers serving unincorporated residents per 1,000 residents served. (This count of officers includes all ranks of deputy sheriff personnel and excludes all support positions and all sworn officers serving county wide population interests such as bailiffs, and sworn officers serving contract cities and grant specific populations).	***Consistent.*** The Project would not conflict with the County's ability to meet the desired staffing ratio; the Project would not result in new residents that could contribute to increased demand for police services.
Policy PF-G.6: Safe Design Features. The County shall promote the incorporation of safe design features (e.g., lighting, adequate view from streets into parks) into new development by providing Sheriff Department review of development proposals.	***Consistent.*** Nighttime lighting for site security or maintenance requirements would be directed downward and shielded to focus illumination on the desired work areas only, and to prevent light spillage onto adjacent properties.
Goal PF-H. To ensure the prompt and efficient provision of fire and emergency medical facility and service needs, to protect residents of and visitors to Fresno County from injury and loss of life, and to protect property from fire.	***Consistent.*** Temporary construction- or decommissioning-related increases in demand on fire protection services would not affect the ability of emergency responders to respond to incidents within the recommended time periods. Operation and maintenance personnel would not increase the population in a manner that would increase existing demand for fire protection services or require new or altered facilities.
Policy PF-H.1: Provision of Fire/Emergency Medical Service. The County shall work cooperatively with local fire protection districts to ensure the provision of effective fire and emergency medical services to unincorporated areas within the county.	***Consistent.*** The Project would not conflict with the County's ability to provide effective emergency services. The Project would not result in new residents that could contribute to the demand for police services, and would incorporate onsite security measures.
Implementation Program PF-H.B: The County shall work with the California Department of Forestry and Fire Protection, local fire protection agencies, and city fire departments to maximize the use of resources to develop functional and/or operational consolidations and standardization of services and to maximize the efficient use of fire protection resources. (See Policy PF-H.1).	***Consistent.*** The Project would not affect the County's ability to coordinate amongst relevant agencies.
Policy PF-H.2: Adequate Fire Protection Facilities. Prior to the approval of development projects, the County shall determine the need for fire protection services. New development in unincorporated areas of the County shall not be approved unless adequate fire protection facilities are provided.	***Consistent.*** Increases in long-term demand for fire protection services typically are associated with substantial increases in population. Once operational, up to 10 workers could be on the site at any one time which would not contribute to a significant population increase, and would not result in an increase to the demand for fire protection services or require new or altered facilities.
Policy PF-H.5: Minimize Fire Hazard Risk. The County shall require that new development be designed to maximize safety and minimize fire hazard risks to life and property.	***Consistent.*** Section 3.20, *Wildfire*, evaluates potential fire hazards. The Project is not located in a zone of very high fire severity hazard as defined by CAL FIRE.
Policy PF-H.8: Minimum Response Times. The County shall encourage local fire protection agencies in the County to maintain the following as minimum standards for average first alarm response times to emergency calls: a. 5 minutes in urban areas; b. 15 minutes in suburban areas; and c. 20 minutes in rural areas.	***Consistent.*** The Project's potential to increase existing demand for fire protection services would not affect the Fresno County Fire Protection District's ability to respond to incidents within the recommended time periods.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy PF-H.10: California Fire Code. The County shall ensure that all proposed developments are reviewed for compliance with fire safety standards by responsible local fire agencies per the Uniform Fire Code and other State and local ordinances.	***Consistent.*** Section 3.20 includes an evaluation of potential fire hazards. The Project is not located in a zone of very high fire severity hazard as defined by CAL FIRE. The Project would not adversely affect the County's ability to ensure that compliance reviews occur.
Policy PF-H.11: Emergency Medical Service. The County shall encourage local fire protection agencies to provide and maintain advanced levels of emergency medical services (EMS) to the public, consistent with current practice.	***Consistent.*** The Project would not affect the County's ability to encourage consistency with existing service levels.
Goal PF-I. To provide for the educational needs of Fresno County and provide libraries for the educational, recreational, and literary needs of Fresno County residents.	***Consistent.*** No residences are proposed as part of the Project, so it would not generate a demand for new school facilities, nor require the alteration of existing school facilities, nor affect the County's ability to provide for the educational needs of the community.
Policy PF-I.1: Quality Education Facilities. The County shall encourage school districts to provide quality educational facilities to accommodate projected student growth in locations consistent with land use policies of the General Plan.	***Consistent.*** No residences are proposed as part of the Project, so it would not generate a demand for new school facilities, nor require the alteration of existing school facilities, nor affect the County's ability to encourage the school district to provide quality learning facilities.
Policy PF-I.4: Planning School Facility Needs. The County shall work cooperatively with school districts in monitoring housing, population, and school enrollment trends and in planning for future school facility needs and shall assist school districts in locating appropriate sites for new schools.	***Consistent.*** The Project would not induce new unplanned growth and so would not affect the County's work with the school district to address future school facility needs.

I.3.3 Open Space and Conservation Element

This purpose of this element is to guide the conservation, preservation, and/or development of open space and natural resources, including biological, cultural, mineral, and scenic resources. The Project's impacts with respect to species and habitat preservation, mineral resource extraction, and aesthetics are primarily addressed in Sections 3.2, *Aesthetics*, 3.5, *Biological Resources*, 3.6, *Cultural and Tribal Resources*, and 3.13, *Mineral Resources.* The Project site intermittently has been cultivated for agricultural use for at least the past 10 years; no naturally occurring plant communities are present. The physical environmental impacts of the Project are described throughout the Draft EIR. Generally speaking, the Project would not contribute substantially to the degradation of natural resources after the implementation of mitigation measures. It would provide a source of renewable energy for use within California, increasing the productive capacity of the land while avoiding the types of pollution traditionally associated with fossil fuel energy sources.

The Open Space and Conservation Element of the Fresno County General Plan also evaluates the scenic resources of Fresno County and provides policies intended to protect the scenic resources of the County and ensure that development enhances those resources through various measures including identification, development review, acquisition, and other methods. The Project site has not been identified as a scenic resource. The Fresno County General Plan also includes policies intended to protect scenic resources along roadways of the County by identifying, developing,

and maintaining scenic amenities along roads and highways in the County and ensuring that development enhances those resources. According to Policy OS-L.1, Fresno County has designated a system of scenic roadways that includes landscaped drives, scenic drives, and scenic highways. According to this element, the only designated scenic roadway in the vicinity of the Project site is Interstate 5 (10 miles west of the Project), which is designated as a scenic highway.

Project consistency with specific Open Space and Conservation Element policies is presented in **Table I1-5** below.

TABLE I1-5
FRESNO COUNTY GENERAL PLAN OPEN SPACE AND CONSERVATION ELEMENT POLICIES

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy OS-A.20: Minimization of Sedimentation and Erosion. The County shall minimize sedimentation and erosion through control of grading, cutting of trees, removal of vegetation, placement of roads and bridges, and use of off-road vehicles. The County shall discourage grading activities during the rainy season unless adequately mitigated to avoid sedimentation of creeks and damage to riparian habitat.	***Consistent.*** Section 3.8, *Geology, Soils, and Paleontological Resources*, includes an evaluation of potential erosion-related impacts and associated mitigation. The Project would comply with a Construction General Permit, and implementation of a SWPPP would limit the impact of construction-related soil erosion by enacting BMPs to address sediment control and limit erosion, such as installation of silt fencing and implementation of temporary sediment disposal measures. Operation of the Project would not include activities that are likely to cause erosion. The Project proposes to revegetate the Project site as part of the proposed closure, decommissioning, and reclamation plan (see Draft EIR Appendix B2). The Project does not include tree removal or construction in creeks or riparian areas.
Policy OS-A.21: Best Management Practices. The County shall continue to require the use of feasible and practical best management practices (BMPs) to protect streams from the adverse effects of construction activities and urban runoff.	***Consistent.*** New impervious surfaces would not be adjacent to or otherwise directly connected to a distinct drainage channel. Section 3.8, *Geology, Soils, and Paleontological Resources*, evaluates potential erosion-related impacts. The Project would comply with a Construction General Permit, and implementation of a SWPPP would limit the impact of construction-related soil erosion by enacting BMPs to address sediment control and limit erosion, such as installation of silt fencing and implementation of temporary sediment disposal measures. Operation of the Project would not include activities that are likely to cause erosion. The Project proposes to revegetate the Project site as part of the proposed closure, decommissioning, and reclamation plan (see Draft EIR Appendix B2). The Project does not include tree removal or construction in creeks or riparian areas.
Policy OS-C.1: Incompatible Mining Uses. The County shall not permit incompatible land uses within the impact area of existing or potential surface mining areas.	***Not Applicable.*** The Project site is neither an existing surface mining area nor has been identified as a future surface mining area. Neither the SMGB nor Fresno County has officially designated the area as an aggregate resource area or mineral deposit of statewide or regional significance.
Policy OS-C.2: Mineral Resource Zones. The County shall not permit land uses incompatible with mineral resource recovery within areas designated as Mineral Resource Zone 2 (MRZ-2).	***Not Applicable.*** The Project site is not within an area designated MRZ-2.
Policy OS-C.7: Mining Buffers. The County shall require that new non-mining land uses adjacent to existing mining operations be designed to provide a buffer between the new development and the mining operations. The buffer distance shall be based on an evaluation of noise, aesthetics, drainage, operating conditions, biological resources, topography, lighting, traffic, operating hours, and air quality.	***Not Applicable.*** The Project site is not adjacent to existing mining operations.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy OS-C.10: Mineral Resource Lands Protection. The County shall not permit land uses that threaten the future availability of mineral resource or preclude future extraction of those resources.	***Not Applicable.*** Neither the SMGB nor Fresno County has designated the Project site or the area as an aggregate resource area or mineral deposit of statewide or regional significance.
Policy OS-C.12: New Development Compatibility. The County shall ensure that new discretionary land use developments are compatible with existing and potential surface mining areas and operations as identified on the Mineral Resource Zone Maps prepared by the State Division of Mines and Geology and other mineral resource areas identified by the County.	***Not Applicable.*** The Project is not proposed within an existing or potential surface mining area as identified on the Mineral Resource Zone Maps prepared by the State Division of Mines and Geology.
Policy OS-C.13: Oil and Gas Regulation Areas. Fresno County shall be divided into three areas for the regulation of oil and gas development. A) Urban areas including all land within one- fourth mile of the planned urban boundaries shown on adopted community plans. B) Established oil and gas fields as determined and updated by the California Division of Oil and Gas, excluding urban areas except where specifically included in these policies. C) Non-urban areas including all land not within either established oil and gas fields or urban areas.	**Consistent.** California Department of Conservation, Geologic Energy Management Division (CalGEM) records indicate there are no known oil or gas wells within the Project site (see Draft EIR Appendix A, *Scoping Report*).
OS-E.1 Avoid Habitat Loss. The County shall support efforts to avoid the "net" loss of important wildlife habitat where practicable. In cases where habitat loss cannot be avoided, the County shall impose adequate mitigation for the loss of wildlife habitat that is critical to supporting special-status species and/or other valuable or unique wildlife resources. Mitigation shall be at sufficient ratios to replace the function and value of the habitat that was removed or degraded. Mitigation may be achieved through any combination of creation, restoration, conservation easements, and/or mitigation banking. Conservation easements should include provisions for maintenance and management in perpetuity. The County shall recommend coordination with the US Fish and Wildlife Service and the California Department of Fish and Wildlife to ensure that appropriate mitigation measures and the concerns of these agencies are adequately addressed. Important habitat and habitat components include nesting, breeding, and foraging areas, important spawning grounds, migratory routes, migratory stopover areas, oak woodlands, vernal pools, wildlife movement corridors, and other unique wildlife habitats (e.g., alkali scrub) critical to protecting and sustaining wildlife populations.	***Consistent.*** The Project site does contain potentially suitable migratory corridors and breeding or nesting habitat for wildlife species, including San Joaquin kit fox; burrowing owls and other raptors, including Swainson's hawk, red-tailed hawk; and migratory birds. The implementation of mitigation measures recommended in Draft EIR Section 3.5, *Biological Resources*, would prevent potential significant impacts to these species. See also Draft EIR Section 2.6.7.4, *Wildlife-friendly Design Features*, in Chapter 2, *Project Description*.
Policy OS-E.2: Construction Buffers. The County shall require adequate buffer zones between construction activities and significant wildlife resources, including both on-site habitats that are purposely avoided and significant habitats that are adjacent to the project site, in order to avoid the degradation and disruption of critical life cycle activities such as breeding and feeding. The width of the buffer zone should vary depending on the location, species, etc. A final determination shall be made based on informal consultation with the U.S. Fish and Wildlife Service and/or the California Department of Fish and Wildlife.	**Consistent**. With the implementation of Mitigation Measure 3.5-1 (Protection of San Joaquin Kit Fox and Badger During Construction), Mitigation Measure 3.5-2 (Worker Environmental Awareness Training and Best Management Practices for Biological Resources), Mitigation Measure 3.5-3 (Protection of Nesting Birds, Including Swainson's Hawk) the Project would have a less-than-significant impact on significant wildlife resources, including habitats.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy OS-E.3: Wildlife Habitat Protection. The County shall require development in areas known to have particular value for wildlife to be carefully planned and, where possible, located so that the value of the habitat for wildlife is maintained.	***Consistent.*** With the implementation of Mitigation Measure 3.5-1 (Protection of San Joaquin Kit Fox and Badger During Construction), Mitigation Measure 3.5-2 (Worker Environmental Awareness Training and Best Management Practices for Biological Resources), Mitigation Measure 3.5-3 (Protection of Nesting Birds, Including Swainson's Hawk) the Project would have a less-than-significant impact on significant wildlife resources, including habitats.
Policy OS-E.4: Wildlife Habitat Management Practices. The County shall encourage private landowners to adopt sound wildlife habitat management practices, as recommended by the California Department of Fish and Wildlife officials and the US Fish and Wildlife Service.	***Consistent.*** With the implementation of Mitigation Measure 3.5-4 (Wildlife Friendly Fencing) the Project would have a less-than-significant impact on wildlife movement. The Project would not affect the County's ability to encourage private landowners to adopt sound wildlife habitat management practices.
Policy OS-E.6:Habitat Corridors. The County shall ensure the conservation of large, continuous expanses of native vegetation to provide suitable habitat for maintaining abundant and diverse wildlife populations, as long as this preservation does not threaten the economic well-being of the County.	***Consistent.*** The Project site has been cultivated or left fallow for at least the past 10 years and does not contain or contribute to a large, continuous expanses of native vegetation. See Draft EIR Appendix C, *Agriculture and Forestry*.
Policy OS OS-E.7 Pesticide Use Monitoring. The County shall continue to closely monitor pesticide use in areas adjacent to habitats of special-status plants and animals.	***Consistent.*** A Pest Management Plan would be implemented to control the introduction or establishment of pests or weeds during Project activities. Implementation of this plan would prevent the Project site from becoming a nuisance to adjacent agricultural operations or biological resource habitats through the introduction of pests or weeds. Consistent with the Fresno County Solar Facility guidelines, the Project would include a sufficient buffer to minimize impacts of the operation to adjacent properties. The Project also would be subject to any applicable requirements of San Joaquin Valley Air Pollution Control District Rule 4102 (Nuisance) as indicated in scooping input provided by the District (see Appendix A, *Scoping Report*).
Policy OS-E.9: Biological Resource Evaluation. Prior to approval of discretionary development permits, the County shall require, as part of any required environmental review process, a biological resources evaluation of the project site by a qualified biologist. The evaluation shall be based upon field reconnaissance performed at the appropriate time of year to determine the presence or absence of significant resources and/or special-status plants or animals. Such evaluation will consider the potential for significant impact on these resources and will either identify feasible mitigation measures or indicate why mitigation is not feasible.	***Consistent.*** Site-specific, Project-specific biological resources reports have been prepared by qualified biologists. See Draft EIR Appendices E1 (Biological Resources Reconnaissance Report), E2 (Swainson's Hawk Survey Report), and E3 (Biological Resources Report). See also Draft EIR Section 3.5, *Biological Resources*, which has been prepared and reviewed by qualified biological resources experts (see Draft EIR Chapter 5, *Report Preparers*).
Policy OS-E.10: Permanent Protection. The County shall support State and Federal programs to acquire significant fish and wildlife habitat areas for permanent protection and/or passive recreation use.	***Not Applicable.*** The Project would not conflict with the County's ability to support such programs.
Policy OS-E.15: Wildlife Migration Routes. The County should preserve, to the maximum extent practicable, significant wildlife migration routes such as the North Kings Deer Herd migration corridors and fawn production areas.	***Consistent.*** The Project site is located within a significant avian migration route known as the Pacific Flyway, which covers the entire western side of North America. Although individual birds may be affected by collision with proposed electrical service lines or poles, the Project is not expected to affect the regional bird populations that use the Pacific Flyway. See Draft EIR Section 3.5.2, *Direct and Indirect Effects of the Project*, within Section 3.5, *Biological Resources.*

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy OS-E.17: Endangered Species Habitat. The County should preserve, to the maximum possible extent, areas defined as habitats for rare or endangered animal and plant species in a natural state consistent with State and Federal endangered species laws.	***Consistent.*** Although the Project site has been cultivated or left fallow for at least the past 10 years and does not contain habitat in a "natural state," the Project would have a less-than-significant impact on significant wildlife resources, including habitats, with the implementation of Mitigation Measure 3.5-1 (Protection of San Joaquin Kit Fox and Badger During Construction), Mitigation Measure 3.5-2 (Worker Environmental Awareness Training and Best Management Practices for Biological Resources), Mitigation Measure 3.5-3 (Protection of Nesting Birds, Including Swainson's Hawk).
Policy OS-E.18: Habitat Easements and Regulations. The County should preserve areas identified as habitats for rare or endangered plant and animal species primarily through the use of open space easements and appropriate zoning that restrict development in these sensitive areas.	***Consistent.*** The Project site is zoned AE20, Exclusive Agricultural. The Project site has been cultivated or left fallow for at least the past 10 years and does not contain habitat in a "natural state". Habitat preserves are intended for higher quality habitat areas.
Policy OS-E.19: Nesting Birds. For development projects on sites where tree or vegetation/habitat removal is necessary and where the existence of sensitive species and/or bird species protected by California Fish and Wildlife Code Sections 3503 and 3503.5 and Migratory Bird Treaty Act has been determined by a qualified biologist, surveys for nesting birds shall be conducted within 14 days prior to project activities by a qualified biologist retained by the developer for all construction sites where activities occurring during nesting bird season (February 1 through September 15). The surveys shall include the entire disturbance area plus at least a 500-foot buffer around the project site. If active nests are located, all construction work shall be conducted outside a buffer zone from the nest to be determined by the qualified biologist. The buffer shall be a minimum of 250 feet for non-raptor bird species and at least 500 feet for raptor species, unless determined otherwise by the qualified biologist. Buffer distances for bird nests shall be site-specific and an appropriate distance, as determined by a qualified biologist. The buffer distances shall be specified to protect the bird's normal behavior thereby preventing nesting failure or abandonment. The buffer distance recommendation shall be developed after field investigations that evaluate the bird(s) apparent distress in the presence of people or equipment at various distances. Abnormal nesting behaviors which may cause reproductive harm include, but are not limited to, defensive flights/vocalizations directed towards project personnel, standing up from a brooding position, and flying away from the nest. The qualified biologist shall have authority to order the cessation of all nearby project activities if the nesting birds exhibit abnormal behavior which may cause reproductive failure (nest abandonment and loss of eggs and/or young) until an appropriate buffer is established. Larger buffers may be required depending upon the status of the nest and the construction activities occurring in the vicinity of the nest. The buffer area(s) shall be closed to all construction personnel and equipment until the adults and young are no longer reliant on the nest site. A qualified biologist shall confirm that breeding/nesting is completed, and young have fledged the nest prior to removal of the buffer. The biologist shall submit a report of these preconstruction nesting bird surveys to the County to document compliance within 30 days of its completion.	***Consistent.*** The Project would have a less than significant effect on nesting birds with implementation of measures identified in Section 3.5.3.3 of the EIR. Specifically, Mitigation Measure 3.5-2 (Worker Environmental Awareness Training and Best Management Practices for Biological Resources) and Mitigation Measure 3.5-3 (Protection of Nesting Birds, Including Swainson's Hawk) would be implemented to reduce effects. These measures contain requirements such as preconstruction surveys and establishment of (construction) avoidance buffers. With implementation of the mitigation measures, the Project would be consistent with the County's nesting birds policy.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy OS-F.5: Rare, Threatened, and Endangered Species. The County shall establish procedures for identifying and preserving rare, threatened, and endangered plant species that may be adversely affected by public or private development projects. The County shall require, as part of the environmental review process, a biological resources evaluation of the project site by a qualified biologist. The evaluation shall be based on field reconnaissance performed at the appropriate time of year to determine the presence or absence of significant plant resources and/or special-status plant species. Such evaluation shall consider the potential for significant impact on these resources and shall either identify feasible mitigation measures or indicate why mitigation is not feasible.	***Consistent.*** The Project does not affect the County's establishment of procedures for identifying and preserving rare, threatened, and endangered plant species. A biological resources evaluation of the Project site was prepared by a qualified biologist (see Appendix E, *Biological Resources*). See also Draft EIR Section 3.5, *Biological Resources*, which documents the impacts analysis.
Policy OS-F.8: Vegetation for Wildlife. The County should encourage landowners to maintain natural vegetation or plant suitable vegetation along fence lines, drainage and irrigation ditches and on unused or marginal land for the benefit of wildlife.	***Consistent.*** Although the Project site has been cultivated or left fallow for at least the past 10 years and does not contain native vegetation, revegetation would occur as part of the proposed closure, decommissioning, and reclamation plan (see Draft EIR Appendix B2).
Policy OS-G.11: Sensitive Receptors. The County shall continue, through its land use planning processes, to avoid inappropriate location of residential uses and sensitive receptors in relation to uses that include but are not limited to industrial and manufacturing uses and any other use which have the potential for creating a hazardous or nuisance effect.	***Consistent.*** The Project does not propose a new residential use that would require the County to apply its land use planning process to regulate the location of residential uses. The Project does, however, propose new industrial use to be considered in future residential planning decisions. Project compliance with noise and other standards of the General Plan and County Code as well as compliance with the Solar Facility Guidelines (see Draft EIR Appendix B2) would ensure that hazards and nuisance conditions do not result.
Policy OS-G.14: Fugitive Dust Control Measures. The County shall include fugitive dust control measures as a requirement for subdivision maps, site plans, and grading permits. This will assist in implementing the SJVUAPCD's particulate matter of less than ten (10) microns (PM_{10}) regulation (Regulation VIII). Enforcement actions can be coordinated with the Air District's Compliance Division.	***Consistent.*** The Project owner would be subject to the independently enforceable requirements of San Joaquin Valley Air Pollution Control District rules and regulations, including Regulation VIII (Fugitive Dust Rules).
Policy OS-G.15: Access Road Standards. The County shall require all access roads, driveways, and parking areas serving new commercial and industrial development to be constructed with materials that minimize particulate emissions and are appropriate to the scale and intensity of use.	***Consistent.*** The construction of all access roads, driveways, and parking areas serving the Project would be constructed in compliance with County requirements.
Policy OS-G.16: Roadway Dust Control. The County shall continue to work to reduce PM_{10} and $PM_{2.5}$ emissions from County-maintained roads by considering shoulder treatments for dust control as part of road reconstruction projects.	***Consistent.*** The Project's implementation of required dust control measures would reduce PM_{10} and $PM_{2.5}$ emissions from Project use of County-maintained roads.
Policy OS-H.2: Park Standards. The County shall strive to maintain a standard of five (5) to eight (8) acres of County-owned improved parkland per one thousand (1,000) residents in the unincorporated areas.	***Consistent.*** The Project would not be located on designated parkland, or introduce new residents and, thereby, affect the ratio of parkland per resident.
Goal OS-J: To identify, protect, and enhance Fresno County's important historical, archeological, paleontological, geological, and cultural sites and their contributing environment, and promote and encourage preservation, restoration, and rehabilitation of Fresno County's historically significant resources in order to promote historical awareness, community identity, and to recognize the County's valued assets that have contributed to past County events, trends, styles of architecture, and economy.	***Consistent.*** The Project would not conflict with the County's ability to protect cultural or paleontological resources. See Draft EIR Section 3.6, *Cultural Resources*, and Section 3.8, *Geology, Soils, and Paleontological Resources*.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy OS-J.1: Preservation of Historic Resources. The County shall encourage preservation of any sites and/or buildings identified as having historical significance pursuant to the list maintained by the Fresno County Historic Landmarks and Records Advisory Commission.	***Consistent.*** The Project would not have a significant adverse impact on the preservation of historic sites or buildings. There are no historic structures on the Project site. See Draft EIR Section 3.6, *Cultural Resources*.
Policy OS-J.2: Historic Resources Consideration. The County shall consider historic resources during preparation or evaluation of plans and discretionary development projects.	***Consistent***. Draft EIR Section 3.6 documents the County's consideration of historic resources as part of the CEQA process for this Project.
Policy OS-J.4: Cultural Resources Protection and Mitigation. The County shall require that discretionary development projects, as part of any required CEQA review, identify and protect important historical, archeological, tribal, paleontological, and cultural sites and resources. For projects requiring ground disturbance and located within a high or moderate cultural sensitivity areas, a cultural resources technical report may be warranted, including accurate archival research and site surveys conducted by qualified cultural resources practitioners. The need to prepare such studies shall be determined based on the tribal consultation process and initial outreach to local or state information centers.	***Consistent.*** Section 4.6, *Cultural and Tribal Cultural Resources*, evaluates potential Project impacts to cultural, archaeological, and historic resources. Section 3.8, *Geology, Soils, and Paleontological Resources*, analyzes potential impacts to paleontological resources. In the event that unknown archaeological resources are discovered during Project construction, the Project owner would implement Mitigation Measures which would requires the retention of a qualified archaeologist and cultural resources awareness training, and which governs procedures in the event of inadvertent discovery of archaeological materials.
Policy OS-J.14: Sites Protection and Mitigation. The County shall require that discretionary development projects, as part of any required CEQA review, identify and protect important historical, archeological, paleontological, and cultural sites and their contributing environment from damage, destruction, and abuse to the maximum extent feasible. Project-level mitigation shall include accurate site surveys, consideration of project alternatives to preserve archeological and historic resources, and provision for resource recovery and preservation when displacement is unavoidable.	***Consistent.*** Section 3.6 documents the County's consideration of, and potential impacts to, cultural, archaeological, and historic resources. Section 3.8 documents the County's consideration of, and potential impacts to, paleontological resources. Confidential reports to be protected from public disclosure due to the sensitivity of the information they contain have been prepared for this Project in furtherance of the analysis of potential impacts to cultural and paleontological resources. Although significant impacts to known resources are not anticipated, the EIR proposes mitigation measures to protect unidentified resources in the event they are discovered during Project activities.
Goal OS-K: To conserve, protect, and maintain the scenic quality of Fresno County and discourage development that degrades areas of scenic quality.	***Consistent.*** Project facilities would contribute new energy infrastructure to a viewscape that includes existing energy infrastructure located adjacent to and in the vicinity of the Project site. See Draft EIR Section 3.2, *Aesthetics*.
Policy OS-K.1: Scenic Resource Preservation. The County shall encourage the preservation of outstanding scenic views, panoramas, and vistas wherever possible. Methods to achieve this may include encouraging private property owners to enter into open space easements for designated scenic areas.	***Consistent.*** As analyzed in Draft SEIR Section 3.2.4.3, *Direct and Indirect Effects of the Project*, in Section 3.2, *Aesthetics*, There are no designated scenic vistas within the viewshed of the entire Project site. The Project would not cause a substantial adverse effect on a scenic vista.
Policy OS-K.4: Incorporating Scenic Features. The County should require development adjacent to scenic areas, vistas, and roadways to incorporate natural features of the site and be developed to minimize impacts to the scenic qualities of the site.	***Consistent.*** As analyzed in Draft SEIR Section 3.2.4.3, *Direct and Indirect Effects of the Project*, in Section 3.2, *Aesthetics*, the Project would not cause a substantial adverse effect on a scenic vista and would not substantially damage scenic resources because none are present within the viewshed of the Project site.
Goal OS-L: To conserve, protect, and maintain the scenic quality of land and landscape adjacent to scenic roads in Fresno County.	***Consistent.*** The Project is not located within a state scenic highway corridor. The nearest state scenic highway is approximately 50 miles east of the Project site.
Policy OS-L.1: Scenic Roadway System. The County designates a system of scenic roadways that includes landscaped drives, scenic drives, and scenic highways. Definitions and designated roadways are showing in the Scenic Roadways list below. Figure OS-1 shows the locations of the designated roadways.	***Consistent.*** The Project does not affect the County's ability to designate scenic roadways.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy OS-L.3: Scenic Roadway Management. The County shall manage the use of land adjacent to scenic drives and scenic highways based on the following principles: b. Proposed high voltage overhead transmission lines, transmission line towers, and cell towers shall be routed and placed to minimize detrimental effects on scenic amenities visible from the right-of-way.	***Consistent.*** There are no designated state scenic highways or roadways eligible for scenic designation within the Project viewshed.

I.3.4 Health and Safety Element

The Health and Safety Element outlines Fresno County's planning strategies regarding emergency management and response, fire hazards, flood hazards, seismic and geological hazards, airport hazards, hazardous materials, and noise. The Project's impacts with respect to safety are primarily addressed in Section 3.8, *Geology, Soils, and Paleontological Resources*, Section 3.10, *Hazards and Hazardous Materials,* Section 3.14*, Noise and Acoustics,* and Section 3.20, Wildfire. The design of the Project, as well as mitigation measures recommended in this Draft EIR, consider the potential seismic, soil instability, flood, fire, waste, and other hazards that are present in the Project area or that could result as a consequence of Project implementation. Although the Project would not avoid all hazards, even with Project consistency with specific Health and Safety Element policies is presented in **Table I1-6** below.

TABLE I1-6
FRESNO COUNTY GENERAL PLAN HEALTH AND SAFETY ELEMENT POLICIES

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy HS-B.1: Fire Hazards Review. The County shall review project proposals to identify potential fire hazards and to evaluate the effectiveness of preventive measures to reduce the risk to life and property.	***Consistent.*** Draft EIR Section 3.20 documents the County's review of the Project's potential wildfire impacts and any mitigation measures to reduce the risk to life and property.
Policy HS-B.7: Fire and Emergency Vehicle Access. The County shall require new discretionary development projects to have adequate access for fire and emergency vehicles and equipment. All major subdivisions shall have a minimum of two (2) points of ingress and egress. The County shall implement feasible recommendations in AB2911 Office of the State Fire Marshall Subdivision Survey Reports, which survey subdivisions without a secondary means of egress routes for evacuation and other fire safety factors.	***Consistent.*** The Project site would have adequate emergency access.
Policy HS-B.10: Fire Agency Review of Development Proposals. The County shall refer development proposals in the unincorporated county to the appropriate local fire agencies for review of compliance with fire safety standards. If dual responsibility exists, both agencies shall review and comment relative to their area of responsibility. If standards are different or conflicting, the more stringent standards shall apply.	***Consistent.*** The Project does not affect the County's ability to refer development proposals to appropriate fire agencies for review.
Policy HS-D.3: Soils and Geologic-Seismic Analysis. The County shall require that a soils engineering and geologic-seismic analysis be prepared by a California-registered engineer or engineering geologist prior to permitting development, including public infrastructure projects, in areas prone to geologic or seismic hazards (i.e., fault rupture, groundshaking, lateral spreading, lurchcracking, fault creep, liquefaction, subsidence, settlement, landslides, mudslides, unstable slopes, or avalanche).	***Consistent.*** As described and analyzed in Draft EIR Section 3.8, *Geology, Soils, and Paleontological Resources*, geologic hazards at the site are not significant. There is no risk that the Project would cause fault rupture or lead to significant impacts related to seismic ground shaking, liquefaction, erosion, or subsidence.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy HS-D.4: Soils and Geologic-Seismic Structure Design. The County shall require all proposed structures, additions to structures, utilities, or public facilities situated within areas subject to geologic-seismic hazards as identified in the soils engineering and geologic-seismic analysis to be sited, designed, and constructed in accordance with applicable provisions of the Uniform Building Code (Title 24 of the California Code of Regulations) and other relevant professional standards to minimize or prevent damage or loss and to minimize the risk to public safety.	***Consistent.*** The Project would be constructed in compliance with the geotechnical and seismic design criteria required for construction in accordance with the California Building Code (CBC).
Policy HS-D.5: Alquist-Priolo Earthquake Fault Act. Pursuant to the Alquist-Priolo Earthquake Fault Zoning Act (Public Resources Code, Chapter 7.5), the County shall not permit any structure for human occupancy to be placed within designated Earthquake Fault Zones unless the specific provisions of the Act and Title 14 of the California Code of Regulations have been satisfied.	***Consistent.*** The Project does not propose any structure for human occupancy. Nonetheless, the Project would be constructed in compliance with applicable geotechnical and seismic design criteria in accordance with the CBC.
Policy HS-D.7: Soils Report. The County shall require a soils report by a California-registered engineer or engineering geologist for any proposed development, including public infrastructure projects, that requires a County permit and is located in an area containing soils with high "expansive" or "shrink-swell" properties. Development in such areas shall be prohibited unless suitable design and construction measures are incorporated to reduce the potential risks associated with these conditions.	***Consistent.*** As analyzed in Draft EIR Section 3.8.3.2, *Direct and Indirect Effects of the Project*, in Section 3.8 *Geology, Soils, and Paleontological Resources*, the Project would not be located on expansive soils, i.e., soils that possess a "shrink-swell" characteristic.
Policy HS-D.8: Minimize Soil Erosion. The County shall seek to minimize soil erosion by maintaining compatible land uses, suitable building designs, and appropriate construction techniques. Contour grading, where feasible, and revegetation shall be required to mitigate the appearance of engineered slopes and to control erosion.	***Consistent.*** The Project would comply with a Construction General Permit, and implementation of a SWPPP would limit the impact of construction-related soil erosion by enacting BMPs to address sediment control and limit erosion, such as installation of silt fencing and implementation of temporary sediment disposal measures. Operation of the Project would not include activities that are likely to cause erosion. Revegetation of the Project site would occur as part of the proposed closure, decommissioning, and reclamation plan (see Draft EIR Appendix B2).
Goal HS-F: To minimize the risk of loss of life, injury, serious illness, and damage to property resulting from the use, transport, treatment, and disposal of hazardous materials and hazardous wastes.	***Consistent.*** Project-related use, storage, transport, and disposal of hazardous materials would be carried out in accordance with federal, state, and local regulations.
Policy HS-F.1: Hazardous Materials Facilities. The County shall require that facilities that handle hazardous materials or hazardous wastes be designed, constructed, and operated in accordance with applicable hazardous materials and waste management laws and regulations.	***Consistent.*** The Project would use, store, transport, and dispose of hazardous materials in accordance with all applicable federal, state, and local requirements.
Policy HS-F.3: Hazardous Materials Incident Response Plan. The County, through its Hazardous Materials Incident Response Plan, shall coordinate and cooperate with emergency response agencies to ensure adequate Countywide response to hazardous materials incidents.	***Consistent.*** The Project would not affect the County's ability to coordinate or cooperate amongst agencies to ensure adequate Countywide response to hazardous materials incidents. Although the 2019 Fresno County Fire Protection District Policy 320, *Hazardous Materials Response*,[2] is a draft that has not been adopted, the Project would not interfere with its implementation.

[2] Fresno County Fire Protection District, 2019. [Draft] Policy 320, Hazardous Materials Response. March 6, 2019. https://www.fresnocountyfire.org/files/628cd78b6/320-Hazardous_Materials_Response.pdf. Accessed June 8, 2023.

Goal/Objective/Policy Text	Project Consistency Evaluation
Policy HS-H.1: Minimize Noise Impacts. The County shall require that all proposed development incorporate design elements necessary to minimize adverse noise impacts on surrounding land uses.	***Consistent.*** Draft EIR Section 3.14, *Noise and Acoustics*, documents the County's analysis of potential noise impacts and concludes that, with mitigation incorporated, the Project would have a less-than-significant impact.
Policy HS-H.4: Noise Mitigation Design and Acoustical Analysis. So that noise mitigation may be considered in the design of new projects, the County shall require an acoustical analysis as part of the environmental review process where: a) Noise sensitive land uses are proposed in areas exposed to existing or projected noise levels that are "generally unacceptable" or higher according to the Chart HS-1: "Land Use Compatibility for Community Noise Environments;" b) Proposed projects are likely to produce noise levels exceeding the levels shown in the County's Noise Control Ordinance at existing or planned noise-sensitive uses.	***Consistent.*** A site-specific, Project-specific acoustical analysis has been prepared as part of the CEQA process for this Project. See Draft EIR Section 3.14, *Noise and Acoustics*, and Appendix J, *Noise*.
Policy HS-H.6: Construction-related Noise. The County shall regulate construction-related noise to reduce impacts on adjacent uses in accordance with the County's Noise Control Ordinance.	***Consistent.*** Short-term construction and decommissioning Project activities would be exempt from the County's noise policies and standards because activities would occur between the hours of 6:00 a.m. and 9:00 p.m. on weekdays, or 7:00 a.m. and 9:00 p.m. on Saturdays and Sundays.
Policy HS-H.8: Noise Levels Compatibility. The County shall evaluate the compatibility of proposed projects with existing and future noise levels through a comparison to Chart HS-1, "Land Use Compatibility for Community Noise Environments."	***Consistent.*** As mitigated, the Project would not exceed County noise standards and would not have a significant impact on noise levels.

I.3.5 Housing Element

The Housing Element provides the County's goals, policies, and programs for the development, improvement, and maintenance of housing within the unincorporated areas of the County. As described in Section 3.15, *Population and Housing*, the Project would neither induce growth nor displace people or housing. No new housing is proposed or would be required as a result of the Project. This element is therefore not applicable to the Project.

I.4 References

Fresno County, 2013. Fresno County Regional Bicycle & Recreational Trails Master Plan. September 24, 2013.

Fresno County, 2011. Fresno County Zoning Map.

Fresno County, 2024. County of Fresno Comprehensive General Plan Review and Revision. Accessed January 10, 2025.

I2 Consistency with Fresno County's Solar Facility Guidelines

Heartland Hydrogen Project
Supplemental Information in Response to the
Fresno County Solar Facility Guidelines[1]

The following information is provided as part of the application review process for the Heartland Solar Project:

1. Information shall be submitted regarding the historical agricultural operational/usage of the parcel, including specific crop type and crop yield, for the last ten years (if no agricultural operation in the last ten years, specify when land was last in agricultural use); and

According to information provided by Westlands Water District, the Project property is non- irrigable and thus only capable of being dry farmed. For the past ten years, the Project site has either lain fallow or been dry-farmed for grain crops. The dry-farmed crops include barley, wheat and grain hay. The crop history for 2009 to 2018 is included as Table 1. Westlands did not provide crop yield data however dry-farmed crop yields are typically lower than comparable crops grown with irrigation.

2. Information shall be submitted that identifies the source of water for the subject parcel (surface water from irrigation district, individual well(s), conjunctive system). If the source of water is via district delivery, the applicant shall submit information documenting the allocations received from the irrigation district and the actual disposition of the water (i.e. utilized on-site or moved to other locations) for the last ten years. If an individual well system is used, provide production capacity of each well, water quality data and data regarding the existing water table depth; and

Water needs for the long-term operation of the Solar Facility are expected to be fourteen acre-feet or less per year. It is expected that water for operation of the project will be provided by Westlands Water District under terms of their Municipal and Industrial ("M&I") service agreement. Under the terms of Westlands' M&I agreement[2], the Project would be eligible for up 5 acre-feet, per year, for every 160 acres of land associated with the Project, so the M&I contract would be more than sufficient to meet the Project's anticipated water supply needs. Water purchased by the Solar Facility would be used at the facility site.

Pursuant to Senate Bill 610, a Water Supply Assessment will be prepared as part of the environmental review for the Project.

[1] Version approved by Fresno County Board of Supervisors on December 12, 2017. Accessed at: https://www.co.fresno.ca.us/departments/public-works-planning/divisions-of-public-works-and-planning/development-services-division/planning-and-land-use/photovoltaic-facilities-p-1621

[2] Section 19.4(B); Regulations regarding the application for and use of Municipal and Industrial water within Westlands Water District (https://wwd.ca.gov/wp-content/uploads/2014/12/rules19.pdf)

3. Identify the current status of the parcel (Williamson Act Contract, Conservation Easement, retired land, etc.), the purpose of any easement and limitations of the parcel. The applicant shall submit a Title Report or Lot Book Guarantee for verification; and

When the property was conveyed to the Westlands Water District, any Williamson Act contracts that may have existed at the time were terminated as a matter of law. In 2012, the Board of Supervisors issued a letter to Westlands concurring that the former contracts were deemed "null and void" as of the time these lands were acquired by Westlands.[3] Preliminary title reports for the Project property will be submitted separately as part of the UCUP application.

4. Identify (with supporting data) the current soil type and mapping units of the parcel pursuant to the standards of the California State Department of Conservation and the Natural Resources Conservation Service; and

Based on data provided by the U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS)[4] the predominant soils on the Project site are Tranquility clay (saline-sodic, wet, mapping unit 286) and Calflax clay loam (saline-sodic, wet, mapping unit 482), which together account for more than 80% of the Project area. Other soils include Ciervo clay (saline sodic, wet, mapping unit 461), Posochanet clay loam (saline-sodic, wet, mapping unit 475) and Cerini sandy loam (mapping unit 478) slopes. The soil types will be described and evaluated in greater detail as part of the Land Evaluation System Analysis (LESA) conducted as part of the environmental impact review.

5. List all proposed measures and improvements intended to create a buffer between the proposed solar facility and adjacent agricultural operations (detailed information must be shown on Site Plan) and provide factual/technical data supporting the effectiveness of said proposed buffering measures; and

The Project site is nearly entirely bounded by agricultural uses or public roads. Where the Project site borders agricultural uses, the solar photovoltaic generating components (PV arrays, inverters, etc.) will be set back at least 50 feet from the Project property line.

6. Provide a Reclamation Plan detailing the lease life, timeline for removal of the improvements and specific measures to return the site to the agricultural capability prior to installation of solar improvements; and

A Preliminary Closure, Decommissioning and Reclamation Plan has been separately submitted.

7. Provide information documenting efforts to locate the proposed solar facility on non-

[3] *See* Letter from D. Poochigian to T. Glover (Jan 21, 2012) (County confirmation of Williamson Act contract rescission), available at: http://www2.co.fresno.ca.us/0110a/Questys_Agenda/MG192241/AS192290/AS192292/AI192301/DO192923/DO_192923.PDF.

[4] https://websoilsurvey.sc.egov.usda.gov Accessed April, 2020

agricultural lands and non-contracted parcels and detailed information explaining why the subject site was selected.

The proposed Project is not located on lands subject to a Williamson Act contract. As noted previously, the proposed Project is being sited on land subject to prohibitions on irrigation imposed by the current owner, Westlands Water District, due to lack of drainage services and salt accumulation in the soil. The prohibitions on irrigation were established to benefit higher-quality, more productive agricultural lands by reducing both the number of acres competing for irrigation water and the volume of agricultural drainage discharged to the poorly draining soils in the Project area. Given the inability of the property to reliably and productively produce crops, Westlands has targeted property like the Project site for renewable energy development[5]. The lack of value for either agriculture or wildlife habitat was acknowledged in a recent report developed by multiple stakeholders from the agricultural community, solar industry, environmental organizations, and state government. The resulting report identified the Project site as predominantly "Priority Least Conflict Area" for agricultural farmland and environmental conservation stakeholders—the lowest possible priority for conservation of agricultural and environmental resources under the applicable classification program [6] The site was selected due to these characteristics as well as the proximity to the Tranquility Switching Station.

8. Develop and submit a project site Pest Management Plan to identify methods and frequency to manage weeds, insects, disease and vertebrate pests that may impact adjacent sites.

A Pest Management Plan has been separately submitted.

9. The applicant must acknowledge the County's Right to Farm Ordinance and shall be required to record a Right to Farm Notice prior to issuance of any permits. This shall be included as a recommended Condition of Approval of the land use entitlement.

Noted. This will be included as a condition of approval.

10. Note: The life of the approved land use permit will expire upon expiration of the initial life of the solar lease. If the solar lease is to be extended, approval of new land use permit will need to be obtained.

Noted.

11. *If the project is approved, the applicant shall make all reasonable efforts to establish a point of sale in Fresno County for equipment and construction related items necessary for the project.*

Noted. This will be included as a condition of approval

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[5] https://wwd.ca.gov/resource-management/land-management/

[6] Center for Law, Energy & the Environment, *A Path Forward: Identifying Least-Conflict Solar PV Development in California's San Joaquin Valley* (May 2016), available at https://www.law.berkeley.edu/wp-content/uploads/2016/05/A-PATH-FORWARD-May-2016.pdf

12. *If the project is approved, the applicant shall make all reasonable efforts to conduct local recruitment efforts and/or coordinate with employment agencies in an attempt to hire from the local workforce.*

Noted. This will be included as a condition of approval

13. *In addition to disclosing the number of trips in the required project Operational Statement, the applicant shall disclose the weight of the shipments anticipated to the site. If the project is approved, pursuant to the CEQA analysis and based upon the existing road conditions and the weight/frequency of shipments to the site, the applicant shall mitigate impacts to County roads.*

The Project will involve two distinct phases: a temporary construction phase lasting up to 18-39 months and an operational phase of at least 30 years. During the operational phase, the Project would receive relatively few shipments, consisting mostly of parts and equipment necessary for maintenance activities.

The majority of shipments, including the heavier loads, would occur during the construction phase. The anticipated number of shipments during Project construction will be included in the Air Quality and Greenhouse Gas Analysis Technical Report, which will be prepared as part of the environmental impact review. At this time, it is estimated there will be approximately 450 construction deliveries (panel modules, posts, cables, etc.) during construction, with a typical truck weight of 50,000 pounds. The heaviest shipments—delivery of the substation transformers—will weigh as much as 190,000 pounds each.

Additionally, the Applicant will coordinate with the County and the California Department of Transportation to review the expected construction-related trips and proposed delivery routes. This consultation will occur prior to preparation of the Traffic Technical Report, which will also be included in the environmental impact review.

14. *If the project is approved, the applicant shall make all reasonable efforts to purchase products and equipment from local (Fresno County) manufacturing facilities and/or vendors.*

Noted. This will be included as a condition of approval

Table 1: 10-Year Crop History[7]

Parcel APN	WWD Field ID	Crop Year									
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
02806032ST	12913	W	W	W	F	F	GH	GH	GH	F	F
02806033ST	9814	F	F	F	F	B	GH	GH	GH	F	F
02806041ST	6636	GH	F	W	F	B	GH	GH	GH	F	F
02806041ST	6700	GH	F	W	F	B	GH	GH	GH	F	F
02814023T	11972	F	B	F	F	F	F	GH	GH	GH	F
02814032ST	6630	F	W	W	F	B	F	GH	GH	GH	F
02814032ST	6632	F	F	W	F	F	F	GH	GH	GH	F
02814036ST	6707	F	W	W	F	B	F	GH	GH	GH	F
02814037ST	6710	F	F	W	F	B	F	GH	GH	GH	F
02814038ST	9261	GH	W	W	F	B	F	GH	GH	GH	F
02814038ST	10634	GH	W	W	F	B	F	GH	GH	GH	F
02814038ST	10635	GH	W	W	F	B	F	GH	GH	GH	F
02814038ST	10636	GH	W	W	F	B	F	GH	GH	GH	F
02816016ST	6712	GH	W	W	F	B	GH	B	GH	GH	F
02816017ST	6708	GH	W	W	F	B	GH	GH	GH	F	F
02816019ST	6709	GH	W	W	F	B	GH	GH	GH	GH	F
02816020ST	6639	GH	W	W	F	B	GH	GH	GH	GH	F
02816022ST	6711	GH	W	W	F	B	GH	GH	GH	GH	F
02817017T	12928	F	F	W	F	W	GH	GH	GH	F	F
02817018T	12929	F	F	W	F	W	GH	GH	GH	F	F
02817041ST	10192	F	F	F	F	B	GH	GH	GH	F	F
02817042ST	10191	F	F	W	F	W	GH	GH	GH	F	F
02817043ST	10192	F	F	F	F	B	GH	GH	GH	F	F
02817044ST	10191	F	F	W	F	W	GH	GH	GH	F	F
02817045ST	10192	F	F	F	F	B	GH	GH	GH	F	F
02817046ST	10191	F	F	W	F	W	GH	GH	GH	F	F
02817047ST	10192	F	F	F	F	B	GH	GH	GH	F	F
02817048ST	10191	F	F	W	F	W	GH	GH	GH	F	F
02817060ST	10191	F	F	W	F	W	GH	GH	GH	F	F
02817061ST	10191	F	F	W	F	W	GH	GH	GH	F	F

Legend:
F = Fallow
B = Barley
W = Wheat
GH = Grain Hay

[7] Data provided by Westlands Water District

Appendix J

Heartland Solar Project Operational Noise Prediction Technical Memorandum

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MEMORANDUM

To:	Deandra Cass (Clearway Energy)
From:	Mark Storm, INCE Bd. Cert. (Dudek)
Subject:	Heartland Solar Project **Operational Noise Prediction Technical Memorandum**
Date:	August 29, 2025
cc:	Peter Todd (Clearway Energy)
Attachment(s):	Figure 1 – Isometric View of Modeled Project PV Solar PCS, BESS, and Substation Noise-Producing Sources and Sound-Occluding Obstacles Figure 2 – Sample Project Operation Prediction Scenarios A. Glossary of Acoustical Terms B. CadnaA Sound Propagation Model Input Worksheets C. Hourly L_{eq} Calculation Worksheets D. Plots of Unattended 24-hour Baseline Outdoor Ambient Sound Levels E. Photographs of Unattended 24-hour Sound Monitor Deployments F. "Forms" Field Notes and Photographs of Attended Baseline Sound Level Measurements

Clearway Energy (Clearway), the owner and applicant for the Heartland Solar Project (Project) located in western Fresno County (County), engaged Dudek to update an earlier operational noise prediction study of the Project that it had prepared for a previous owner. The revised Project design layout retains its earlier arrays of photo-voltaic (PV) solar panels spanning the Project property on both north and south sides of West Adams Avenue, but now includes a battery energy storage system (BESS) facility adjoining the south side of this roadway segment.

This Operational Noise Prediction Technical Memorandum (memo) describes the regulatory setting for the Project with respect to potential environmental noise impacts due to post-construction operation of its facilities, and the methodology and results from development of a three-dimensional sound propagation model (using commercially available Datakustik CadnaA software) of aggregate noise emission from these anticipated operating Project facilities associated with the PV solar electricity generation inverters, collector substation transformers, and the onboard cooling systems of the BESS battery container units and their associated but physically separate medium voltage transformers (MVT). These predictions include Project-attributed operation noise exposure levels at the two nearest offsite residential receptors (R1 and R2), which are then compared with relevant noise impact assessment criteria based on the local applicable standards.

Attachments to this memo include: A) a glossary of relevant noise descriptors to help provide the reader context with respect to the analyses and findings presented herein; B) predictive modeling inputs and source definition worksheets; C) a calculation worksheet presenting predicted Project operation noise results (as successive hourly energy-equivalent [L_{eq1hr}] values) for an anticipated "hottest day" environmental condition; D) plots of 24-hour

outdoor ambient sound levels collected by unattended sound level monitors in the vicinities of offsite receptors R1 and R2; and E) field notes and photographs from investigator-attended sound level measurement samples at R1 and R2.

Regulatory Setting

As appearing in Exhibit A, Chapter 8.40 – Noise Control of the County code features exterior noise level standards that would apply to Project-attributed operation noise exposure levels within 50 feet of offsite noise-sensitive receptors (NSR) that include affected residences, schools, hospitals, churches or public libraries.

Exhibit A

FRESNO COUNTY EXTERIOR NOISE LEVEL STANDARDS

Cumulative min/hr (Lx)	Daytime 7 a.m. to 10 p.m.	Nighttime 10 p.m. to 7 a.m.
30 (L_{50})	50	45
15 (L_{25})	55	50
5 ($L_{8.3}$)	60	55
1 ($L_{1.7}$)	65	60
0 (L_{max})	70	65

NOTE:
In the event the measured ambient noise level exceeds the applicable noise level standard in any category above, the applicable standard shall be adjusted so as to equal the ambient noise level.

SOURCE: Fresno County 1978.

Because the major noise-producing sources associated with Project tend to be equipment that operates continuously and in a steady-state manner, the predicted aggregate sound levels (understood to be energy-equivalent levels [L_{eq}]) at a studied NSR would be compared directly with the quantified standards appearing in Exhibit A and thus consistent with Section 8.40.040.D from the County code. For such continuous sources of noise, one would generally expect an hourly L_{eq} value to be comparable to the hourly median sound level (i.e., the L_{50} statistical value, which refers to the dB exceeded for a cumulative fifty percent [50%] of a measured hour).

Project Operations Prediction

Methodology

Predictive analysis of Project operation noise first requires the evaluation of aggregate noise emission representing scenarios when onsite BESS charging or discharging may occur and under outdoor ambient climate conditions requiring their cooling systems are functioning at a specific and constant delivered capacity, with values incrementally ranging from zero (0) to ninety percent (90%). During such periods, this assessment presumes the PCS and MPT are also operating normally and emitting noise under typical loads.

Once these energy-equivalent levels (L_{eq}) for the Project are predicted for a set of these different BESS cooling capacity cases under assumed constant operation, the values are then used as inputs to a Microsoft Excel spreadsheet that calculates expected noise emission for each successive hour across a "hottest day", within which BESS cooling capacities are forecast and vary throughout the daytime and nighttime in a 24-hour timeframe.

CadnaA Sound Propagation Model

Dudek received from Clearway site plan information (via .dwg file), an independent test report that provided reference sound pressure levels (SPL) and sound power levels (PWL) for each of the two proposed collector substation transformers (a.k.a., main power transformers [MPT]), and reference PWL data from the proposed supplier of battery containers for a range of cooling capacity settings (a.k.a., fan speeds). With these inputs, Dudek modeled the propagation of aggregate operating sound emission from a combination of Project PV solar power conversion systems (PCS), substation transformer, and BESS noise sources with commercially available Datakustik CadnaA software, which incorporates relevant International Organization of Standardization (ISO) 9613-2 algorithms and reference data that are generally considered to be industry standard for outdoor noise modeling. Key modeling assumptions and parameters are detailed in the following paragraphs.

PV Solar PCS

Each "block" of PV solar panel arrays in the Project areas north and south of W. Adams Avenue is served by a PCS comprising an inverter/transformer as the major steady-state noise emission source. (Other electrical equipment onsite, such as switches, would produce noise only occasionally and thus not contribute substantially to overall PV system noise emission.) Each PCS is modeled in CadnaA as a small point-type source set at five feet (5') above local grade elevation and emits sound at a magnitude comparable to levels from manufacturer test data from a leading supplier that Dudek has previously utilized on similar renewable energy projects. The approximate positions of these rendered PCS units across the Project site appear in Figure 1.

Collector Substation Transformers

As shown in Figure 1, the Project anticipates the installation of two MPT east of the BESS facility near the south side of W. Adams Avenue. Each is idealized as a point-type source, with octave band center frequency (OBCF) PWL values appearing in Attachment B.

BESS Facility

The BESS facility comprises 224 individual battery container units, served by 56 MVTs (at a 4-to-1 ratio). Side-by-side pairs of battery containers are modeled as "blocks" in the CadnaA model space, with outward-facing horizontal and vertical areas of sound emission that align with reference sound data from the intended manufacturer. The MVTs are modeled as individual blocks (i.e., having dimensions comparable to common equipment of its type) with top-mounted area sources representing their operating sound emission. Attachment B presents OCBF details.

Modeling Assumptions

- All noise sources are assumed to operate in a steady-state or otherwise continuous manner, so that the predicted energy-equivalent level (L_{eq}) may be compared directly with the County's L_{50} standard for daytime or nighttime periods. In other words, because a constant source of sound emission produces the same

measurable noise level each of every successive time interval, the energy-averaged dB value of the "stack" of intervals should be the same as the median or 50th-percentile of that stack of interval dB values.

- Acoustical ground absorption of the Project site (modeled as flat, which generally approximates the site terrain characteristics) is set at zero, which on a zero (smooth, non-porous, reflective) to one (porous, absorptive) scale conservatively approximates the aggregate expanse of smooth and reflective PV panel surfaces and paved access roads. Beyond the Project site area, the surrounding terrain (also rendered as flat topography) has been assigned an estimated average ground absorption coefficient of 0.5, to characterize the combination of hard-packed and loosely-tilled or grass-covered soils and includes the presence of a few paved roadway segments.

- Meteorological conditions presume "calm" wind conditions (i.e., less than 0.5 meters per second in any direction) and average air temperature and relative humidity of 68 degrees Fahrenheit and 70%, respectively.

- The model "configuration" settings include reflection order set to "1", which can be interpreted to mean that a sound emission path from a source will continue to be analyzed after impingement upon and reflection from the first intervening structure or barrier.

"Hottest Day" Successive Hourly Estimates

Dudek received from Clearway two different forecasts (from the intended supplier) of aggregate battery container cooling system operation over the course of an anticipated "hottest day" 24-hour period. Attachment C presents approximations of these anticipated cooling capacities, and their durations in each successive hour, as inputs for calculations of the hourly L_{eq} noise exposure values at each of the two studied offsite receptor positions (R1 and R2).

CadnaA Prediction Results

Figure 2 displays CadnaA-predicted noise propagation contours associated with onsite Project operation of major noise-producing sources as studied herein that include two of the battery container cooling capacity scenarios: operation at 40% and 90%, respectively. Under the 40% battery container cooling capacity case, the noise exposure magnitude at R1 is predicted to be 37.8 dBA, and 37.5 dBA at R2. If such operation at this capacity was constant for a full hour, these dBA magnitudes would be the hourly L_{eq} values as well. For the 90% cooling capacity case, the predicted exposure at R1 would be 42.2 dBA, and 47.1 dBA at R2. As Figure 2 illustrates, the predicted noise exposure at location R2 becomes higher than R1 for the 90% cooling capacity scenario because of its proximity to the BESS facility. Under the 40% cooling capacity scenario, the aggregate BESS noise emission is substantially quieter, and enables the PCS nearest to R1 to be the dominant acoustical contributor and thus cause its exposure level to be greater than that predicted for R2.

"Hottest Day" Hourly Evaluation

Reflecting application of the more conservative (i.e., generating higher sound exposure levels) of the two battery container cooling operation forecasts for a "hottest day" scenario, Attachment C presents the calculated hourly L_{eq} values at offsite positions R1 and R2. These are logarithmic sums of the shown CadnaA-based predictions of sound magnitudes for the anticipated battery cooling capacities and their durations for each successive hour of the

studied 24-hour period. At R1, the hourly levels range from 37 dBA to 41 dBA, with the latter occurring in the 9 a.m. to 1 p.m. period. At R2, the hourly levels range from 36 dBA to 46 dBA, with the latter similarly happening during this 4-hour period and concurrent with expected battery charging or discharging process.

Environmental Impact Assessment

County Fixed Threshold Compliance

Compared to the daytime 50 dBA L_{50} fixed threshold for Fresno County as appearing in Exhibit A, which this assessment interprets as being comparable to an hourly L_{eq} limit, the highest predicted hourly L_{eq} values from Attachment C for R1 and R2 locations are compliant. Exposure levels during nighttime operation (10 p.m. to 7 a.m.) are also compliant with the more stringent 45 dBA threshold.

Project-attributed Increase over Ambient

Establishing Baseline

Measurements of baseline (a.k.a., pre-Project) SPL were conducted in the vicinities of R1 and R2 over the course of an overnight field survey from August 19-20, 2025 to quantify and characterize the existing outdoor ambient sound environment at these two studied offsite receiver positions. Plots of the collected data, expressed as hourly A-weighted metrics and statistical values, appear in Attachment D and were measured with American National Standards Institute (ANSI) Type 2 sound level meters (SLM) deployed at each receiver location as shown in Attachment E.

Additionally, short-duration SPL measurements were performed by an attending Dudek field investigator using a Rion-branded Model NL-62 sound level meter (SLM) equipped with a 0.5-inch, pre-polarized condenser microphone with pre-amplifier. The SLM meets the current ANSI standard for a Type 1 SLM. The accuracy of the SLM was verified using a field calibrator before and after the measurements, and the measurements were conducted with the microphone positioned approximately 5 feet above the ground. Data, field notes, and photographs of these survey positions appear in Attachment F.

According to the plots appearing in Attachment D, the quietest nighttime hour at LT1 (R1) is 12:00 a.m. with an L_{50} value just under 35 dBA, and an hourly L_{eq} of 55 dBA. At LT2 (R2), the quietest nighttime hour starts at 10:00 p.m. and has an L_{50} value of 43 dBA, with a corresponding hourly L_{eq} of 52 dBA.

Evaluating Increase over Baseline Ambient

As shown in Attachment C, the predicted hourly L_{eq} range for Project operations during nighttime hours (10 p.m. to 7 a.m.) is 37 to 38 dBA for R1, and ranges between 36 dBA and 38 dBA for R2. Tables 1 and 2 show the results of logarithmically adding the upper values of these predicted hourly L_{eq} ranges to the measured quietest samples of baseline outdoor ambient sound level—for both L_{50} and L_{eq} values—as summarized in the preceding paragraphs.

Table 1. Future Outdoor Ambient Noise (L_{50}) including Project Operations

Receptor Location Tag	Receptor Type	Measured Quietest Baseline Outdoor Ambient Hour (dBA, L_{50}) at the Receptor		Predicted Highest Project Operations (dBA, hourly L_{eq})		Logarithmic Sum of Baseline and Project Operations (dBA, hourly L_{50})		Increase over Ambient (dB):	
		Day	Night	Day	Night	Day	Night	Day	Night
R1	Residence	35	35	41	38	42	40	7	5
R2	Residence	43	42	46	38	48	43	6	5

Notes: dBA = A-weighted decibel; L_{eq} = energy-equivalent sound level; L_{50} = sound level exceeded a cumulative fifty percent (50%) of the time.

Table 2. Future Outdoor Ambient Noise (L_{eq}) including Project Operations

Receptor Location Tag	Receptor Type	Measured Quietest Baseline Outdoor Ambient Hour (dBA, L_{eq}) at the Receptor		Predicted Highest Project Operations (dBA, hourly L_{eq})		Logarithmic Sum of Baseline and Project Operations (dBA, hourly L_{eq})		Increase over Ambient (dB):	
		Day	Night	Day	Night	Day	Night	Day	Night
R1	Residence	57	55	41	38	57	55	<1	<1
R2	Residence	55	47	46	38	55	48	<1	1

Notes: dBA = A-weighted decibel; L_{eq} = energy-equivalent sound level.

With respect to a potential change in the outdoor sound environment as described with L_{50} values, the predicted daytime hour increases attributed to Project operation noise at R1 and R2 are no greater than 7 dB in Table 1 and thus below the allowable ten-decibel increase. At night, the predicted increases are no greater than 5 dB and thus compatible with that limit on allowable decibel increase.

When evaluated with respect to L_{eq} values, the predicted increases shown in Table 2 for R1 and R2 are no greater than one decibel.

For the above reasons, Project operation even under anticipated "hottest day" conditions is expected to create increases over existing outdoor ambient levels that are compatible with the County's 10 dB expected increase cap during daytime hours, and a 5 dB increase cap during nighttime hours.

Evaluating Compatibility with Residential Outdoor CNEL

The Fresno County General Plan CNEL-based community noise exposure level considers the contributions of daytime and nighttime noise levels. The maximum allowable noise exposure level for residential land uses is 60 CNEL. As shown in Attachment C, the CNEL values calculated from predicted Project operations hourly L_{eq} over the course of a 24-hour period are 44.7 dBA for R1 and 45.2 dBA for R2. Both of these CNEL are well below 60 dBA exterior exposure standard for the County; and, these predicted CNEL values associated with Project operations are less than the CNEL values derived from the available hourly L_{50} data shown in the plots of Attachment D. For example, at R1, the CNEL calculated from hourly L_{50} values is 48 dBA and thus higher than that of the anticipated Project operations contribution.

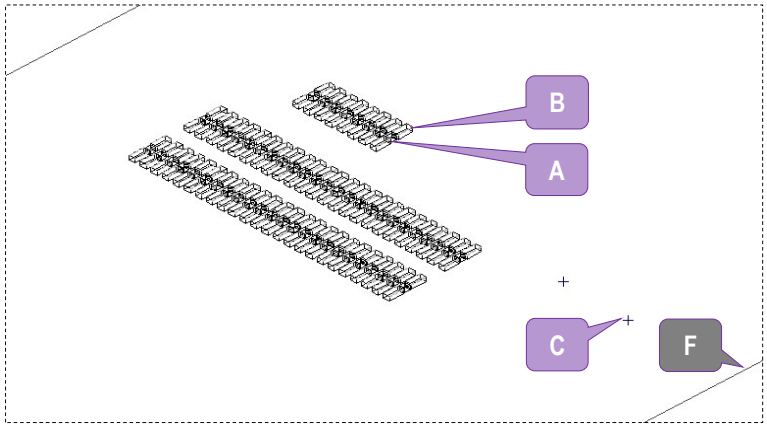
Additional Notes (R3)

An earlier environmental assessment of the Project, prepared by ESA in 2022, considered an additional "R3" offsite residential receptor position located over 8,000 feet south of the Project site southern boundary at the intersection of West Dinuba Avenue and Rte. 33 (S. Derrick Ave.). Due to its much larger distance from the Project than R1 and R2, and per acoustical principles of sound attenuation with distance, R3 is also expected to receive Project operation noise exposures that are compliant with County fixed thresholds and the increase-over-ambient cap expectation.

Should you have any questions, comments, or suggestions on how this memo could better suit your needs, please do not hesitate to contact me at mstorm@dudek.com.

Sincerely,

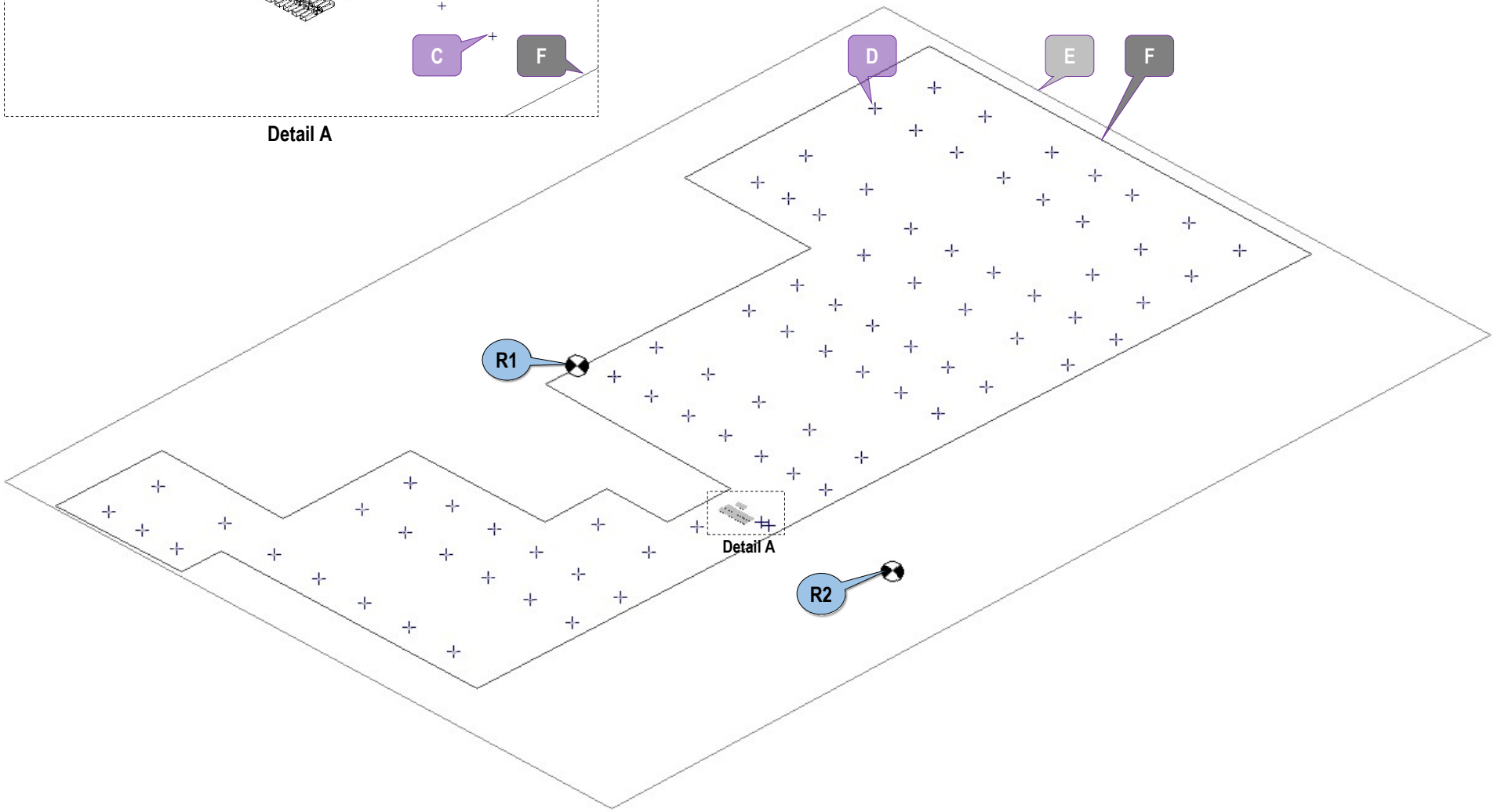
Mark Storm, INCE Bd. Cert.
Acoustic Services Manager



Detail A

Legend

A. Medium voltage transformer (typical 56, each serving four [4] battery containers)
B. "Block" (typical 112) each comprising two [2] parallel battery containers
C. Main power transformer (MPT, typical for 2)
D. Photo-voltaic (PV) solar power conversion system (PCS, typical for 82)
E. Noise contour calculation boundary (not a physical Project feature)
F. Site area within which ground absorption = 0; beyond, ground absorption = 0.5



SOURCE: Dudek 2025

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FIGURE 1

Isometric View of Modeled Project PV Solar PCS, BESS, and Substation Noise-Producing Sources and Sound-Occluding Obstacles

Clearway Energy - Heartland Solar Project (Dudek No. 18039)

SOURCES: Google Earth 2024; Clearway Energy 2025; Dudek 2025

DUDEK

0 1006 2011 Feet

FIGURE 2

Sample Project Operation Prediction Scenarios (*left*: BESS container cooling systems at 40% capacity; *right*: BESS container cooling at 90% capacity)

Attachment A – Glossary of Common Acoustical Terms

Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
A-Weighted Sound Level (dBA)	The sound pressure level (SPL) in decibels as measured on a sound level meter (SLM) using the A-weighted filter network, which de-emphasizes the very low and very high frequency components of the measured sound in a manner similar to the frequency response of the average healthy human ear.
Background Sound Level	The amalgam of sounds from indistinct and/or distant sources (e.g., roadway traffic, residential HVAC systems, etc.) that are not nearby or are otherwise the focus of study.
Decibel (dB)	The unit for expressing SPL and is equal to 10 times the logarithm (to the base 10) of the ratio of the measured sound pressure squared to a reference pressure, which is 20 micropascals.
Equivalent Sound Level ($L_{eq[xh]}$)	The value corresponding to a steady-state sound level containing the same total energy as a time-varying signal over a given sample period. The L_{eq} may feature notation in its subscript indicating the time period (e.g., eight hours as "8h" to populate "[Xh]") of energy averaging.
Octave Band Center Frequency (OBCF)	Commonly discussed octave frequency bands are: 31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz and 16 kHz. Each of these "center frequencies" represents an octave band defined by a lower band limit equal to 0.707 times the center frequency, and an upper band limit equal to 1.414 times the center frequency.
Statistical Sound Level (L_{XX})	A sound level exceed for a cumulative XX percentage of time within a defined measurement period. The L50 ("L-fifty") value is thus often called the "median" sound level; and the L90 ("L-ninety") value is a dB level exceed 90% of the measurement period and hence typically used to evaluate specific continuous or steady-state sound sources, or describe the background sound level (see above definition).

Attachment B – CadnaA Sound Propagation Model Input Worksheets

Operational Noise Prediction Technical Memorandum

Sound Levels (local)

Name	ID	Type	1/3 Octave Spectrum (dB)																										Source	
			Weight.	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	A	lin
substation (250MVA)	SUBS	Lw	A		62			81			93			95			101			98			94			89			80	104.4	113.1	based on EEI EPPENG calc
Siemens KPT 3MFR (277MVA)	SKPT	Lw	A	38	41	42	43	51	67	66	76	79	79	84	87	90	88	91	88	90	90	87	84	82	79	76	72	70	68	63	98.8	103	Clearway Energy report - page 3
4 hr 5 fan MP2XL4G 40 pcnt	MP2XL4G	Lw	A	40.4	45.7	50.5	54.9	58.9	62.6	66	63.3	62.7	71.4	77.2	70.2	71.1	71	74.7	72.2	75	74.9	73.7	72.5	72.6	70.7	69.8	66.6	61.1	56.2	51	84.9	95.1	Tesla Sep 2022, <100Hz est. mcs062024
4 hr 5 fan MP2XL 90 pcnt	MP2XL90	Lw	A	44.3	49.6	54.4	58.8	62.8	66.5	69.9	65.6	66.4	70.6	76	83.1	94.5	79.3	85	89	89.5	90.5	89.5	89.4	89.3	85.7	86.2	86.1	82.1	77	70.7	100.1	103.5	Tesla Sep 2022, <100Hz est. mcs062024
Medium Inverter	BINV	Lw	A		30			49			61			63			69			66			62			57			48		72.4	81.1	per Ormat info to meet 65 dBA at 1m
PCSM inverter - right side	PCSMR	Lw	A		67			86			75			68			67			63			58			50			49		86.5	113.2	based on PE test data
PCSM inverter - left side	PCSML	Lw	A		71			83			78			78			80			76			78			67			69		87.4	112.9	based on PE test data
PCSM inverter - front side	PCSMF	Lw	A		75			90			81			81			78			80			78			71			74		91.9	118.4	based on PE test data
PCSM inverter - back side	PCSMB	Lw	A		76			94			80			78			79			77			78			70			74		94.7	121.1	based on PE test data
PCSM inverter - point source log sum of 4 sides	PCSMPS	Lw	A		79.5			96.1			85.1			84.1			83.9			82.8			82.8			74.4			77.7		97.4	124.0	based on PE test data

Point Sources

Name	Sal.	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuatio	Operating Time			KO	Freq.	Direct.	Height		Coordinates		
				Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night						X	Y	Z
				(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft²)		(min)	(min)	(min)	(dB)	(Hz)			(ft)	(ft)	(ft)
Substation Transformer 1				98.8	98.8	98.8	Lw	SKPT		0	0	0								0		(none)	5	r 13.12	6155923	2116026	13.12
Substation Transformer 2				98.8	98.8	98.8	Lw	SKPT		0	0	0								0		(none)	5	r	6154055	2116029	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6148305	2109398	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6147598	2109396	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6146881	2109397	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6146909	2110402	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6148306	2110400	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149449	2110293	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150390	2110300	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151332	2110298	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152273	2110293	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153210	2110297	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153879	2112099	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153000	2112103	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152125	2112099	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151241	2112099	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150375	2112103	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149491	2112096	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149486	2113107	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150375	2113100	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151254	2113107	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152125	2113100	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153000	2113104	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153886	2113104	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153329	2114269	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152251	2114262	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153322	2115267	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153965	2117322	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153298	2117319	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152631	2117318	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151866	2117322	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151094	2117321	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150324	2117319	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149544	2117315	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149419	2118322	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150497	2118328	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151566	2118328	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152636	2118320	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153705	2118322	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153650	2120000	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152858	2120003	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152061	2120000	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151272	2120000	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150473	2120003	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149694	2119997	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149688	2121003	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150481	2121003	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151272	2121003	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152069	2121000	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152855	2120997	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153652	2121000	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153014	2122273	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6154078	2122278	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151935	2122274	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150863	2122276	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149799	2122284	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6148557	2122587	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6147912	2122587	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6147282	2122590	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6147274	2123595	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6148544	2123587	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149793	2123273	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150649	2123276	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151507	2123284	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152368	2123279	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153224	2123279	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6154082	2123276	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153644	2124287	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152577	2124290	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153644	2125289	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6153651	2126294	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152580	2126297	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6152582	2125289	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151446	2126241	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6151450	2125226	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150606	2125237	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6150683	2126231	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149773	2125230	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6149773	2126238	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6148790	2125237	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6148384	2126245	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6147929	2125244	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6147068	2125240	5
Solar Inverter				85.1	85.1	85.1	Lw	PCSMPS		0	0	0			12.3					0		(none)	5	r	6147306	2126252	5

Area Sources

Name	Sal.	M.	ID	Result. PWL			Result. PWL"			Lw / Li		Correction			Sound Reduction		Attenuatio	Operating Time			KO	Freq.	Direct.	Moving Pt. Src		
				Day	Evening	Night	Day	Evening	Night	Type	Value	Day	Evening	Night	R	Area		Day	Special	Night				Number		
				(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)		(ft²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
BESS soun				94.1	94.1	94.1	92.7	92.7	92.7	Lw	MP2XL90	0	0	0			6				0	(none)				9 r

| | | |

BESS vert	96.6	96.6	96.6	92.2	92.2	92.2	Lw	MPZX1S0	0	0	0	3.5	3	(none)	9	r	1

Attachment C – Hourly Leq Calculation Worksheets

Heartland Solar (Fresno County) *"Hottest Day" Histogram (based on data received from Clearway on 02/28/25)*

-3.98 = dB split for battery fans only (based on 10*LOG(2/5)

Battery Container "battery" Fans (representing operation of 2 of the 5 total fans on a 5-fan BC)

% of time (provided by manufacturer, 2022 modeling)

Hour Start Time -->	**12am**	**1am**	**2am**	**3am**	**4am**	**5am**	**6am**	**7am**	**8am**	**9am**	**10am**	**11am**	**12pm**	**1pm**	**2pm**	**3pm**	**4pm**	**5pm**	**6pm**	**7pm**	**8pm**	**9pm**	**10pm**	**11pm**
Cooling Capacity:																								
BC battery fan ops (90%)			6			11	3					20	80				6	3		12	12			
BC battery fan ops (60%)												40						57	80	37	22	18		
BC battery fan ops (40%)	100	70	68			21	67					12	20	100	100	81	60	12	20	38	48	82	72	68
BC battery fan ops (30%)												3												
BC battery fan ops (20%)			26	100								15					26	28		5			2	2
BC battery fan ops (0%)		30			100	68	30	100	100	100	100	10				19	8			8	18		26	30

-2.22 = dB split for battery fans only (based on 10*LOG(3/5)

Battery Container "power electronics" Fans (representing operation of 3 of the 5 total fans on a 5-fan BC)

% of time (provided by manufacturer, 2022 modeling)

BC PE fan ops (90%)										95	100	100	60						60	88	6	1	1	
BC PE fan ops (60%)	2	2		2	2		2			1								100	40	12	2	2	2	1
BC PE fan ops (40%)	2	2		2	2		2			1				2							2	2	2	1
BC PE fan ops (30%)	2	2	2	2	2	2	2	2	10	1			20	4	10	15					26	10	10	8
BC PE fan ops (20%)	54	54	60	52	56	52	56	54	58	1			20	60	52	60	65				30	51	52	54
BC PE fan ops (0%)	40	40	38	42	38	46	38	44	32	1			20	20	42	30	20				34	34	33	36

R1 *temporal adjusted A-wtd SPL based on CadnaA model results*

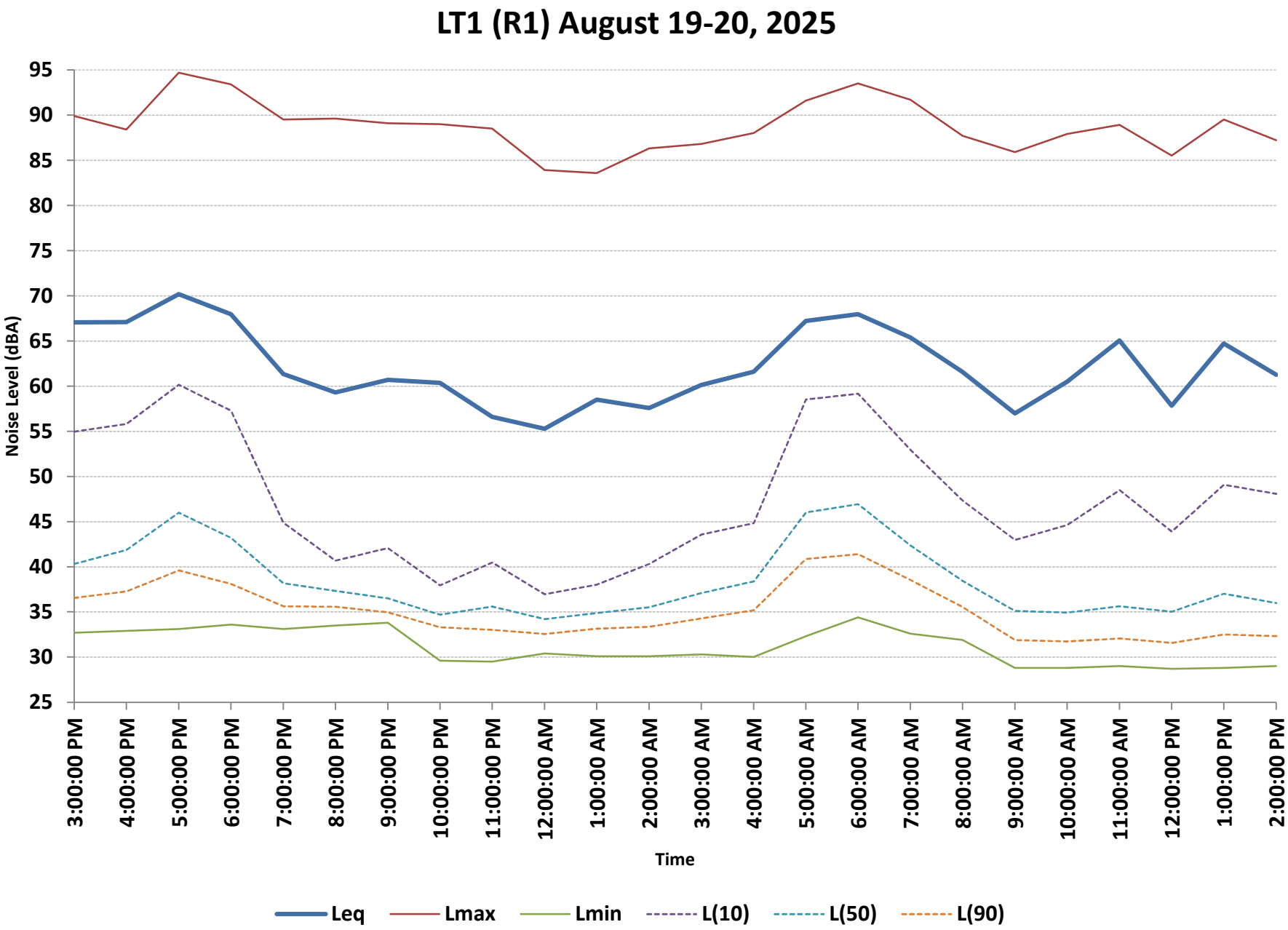
Solar PCS and MPTs	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*
BC battery fan ops (90%)	*0*	*0*	*24*	*0*	*0*	*27*	*21*	*0*	*0*	*0*	*0*	*30*	*36*	*0*	*0*	*0*	*0*	*24*	*21*	*0*	*27*	*27*	*0*	*0*	*0*
BC battery fan ops (60%)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*27*	*0*	*0*	*0*	*0*	*0*	*0*	*28*	*30*	*26*	*24*	*23*	*0*	*0*
BC battery fan ops (40%)	*23*	*22*	*22*	*0*	*0*	*16*	*21*	*0*	*0*	*0*	*0*	*14*	*16*	*23*	*23*	*22*	*21*	*14*	*16*	*19*	*20*	*22*	*22*	*22*
BC battery fan ops (30%)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*5*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
BC battery fan ops (20%)	*0*	*0*	*10*	*16*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*8*	*0*	*0*	*0*	*0*	*10*	*11*	*0*	*3.2*	*0*	*0*	*-1*	*-1*
BC PE fan ops (90%)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*38*	*38*	*38*	*36*	*0*	*0*	*0*	*0*	*0*	*36*	*38*	*26*	*18*	*18*	*0*
BC PE fan ops (60%)	*15*	*15*	*0*	*15*	*15*	*0*	*15*	*0*	*0*	*12*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*32*	*28*	*23*	*15*	*15*	*15*	*12*
BC PE fan ops (40%)	*8*	*8*	*0*	*8*	*8*	*0*	*8*	*0*	*0*	*5*	*0*	*0*	*0*	*0*	*8*	*0*	*0*	*0*	*0*	*0*	*8*	*8*	*8*	*5*
BC PE fan ops (30%)	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*12*	*2*	*0*	*0*	*0*	*15*	*8*	*12*	*14*	*0*	*0*	*0*	*16*	*12*	*12*	*11*
BC PE fan ops (20%)	*15*	*15*	*16*	*15*	*15*	*15*	*15*	*15*	*16*	*-2*	*0*	*0*	*11*	*16*	*15*	*16*	*16*	*0*	*0*	*0*	*13*	*15*	*15*	*15*
L_{eq1h}	**38**	**38**	**38**	**37**	**37**	**38**	**38**	**37**	**37**	**41**	**41**	**41**	**41**	**38**	**38**	**38**	**38**	**39**	**40**	**41**	**38**	**38**	**38**	**38**
L_{eq1h} (adjusted for CNEL calc)	48	48	48	47	47	48	48	37	37	41	41	41	41	38	38	38	38	39	40	46	43	43	48	48

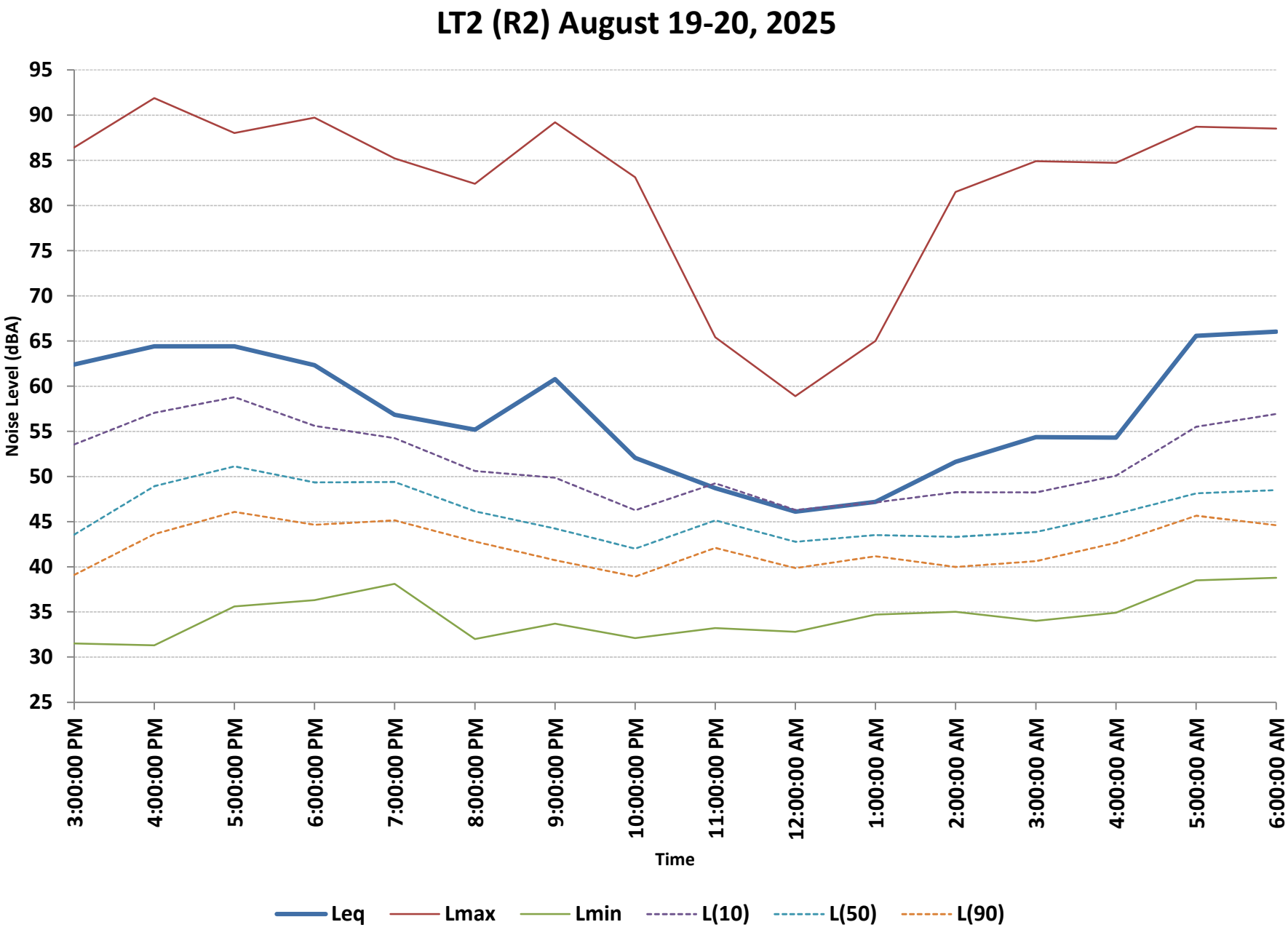
CNEL
44.7

R2 *temporal adjusted A-wtd SPL based on CadnaA model results*

Solar PCS and MPTs	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*	*36*
BC battery fan ops (90%)	*0*	*0*	*31*	*0*	*0*	*33*	*28*	*0*	*0*	*0*	*0*	*36*	*42*	*0*	*0*	*0*	*31*	*28*	*0*	*34*	*34*	*0*	*0*	*0*
BC battery fan ops (60%)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*33*	*0*	*0*	*0*	*0*	*0*	*34*	*36*	*33*	*30*	*29*	*0*	*0*
BC battery fan ops (40%)	*29*	*27*	*27*	*0*	*0*	*22*	*27*	*0*	*0*	*0*	*0*	*20*	*22*	*29*	*29*	*28*	*27*	*20*	*22*	*25*	*26*	*28*	*27*	*27*
BC battery fan ops (30%)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*10*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
BC battery fan ops (20%)	*0*	*0*	*16*	*22*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*13*	*0*	*0*	*0*	*0*	*16*	*16*	*0*	*8.7*	*0*	*0*	*4.7*	*4.7*
BC PE fan ops (90%)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*44*	*45*	*45*	*42*	*0*	*0*	*0*	*0*	*0*	*42*	*44*	*32*	*25*	*25*	*0*
BC PE fan ops (60%)	*22*	*22*	*0*	*22*	*22*	*0*	*22*	*0*	*0*	*19*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*39*	*35*	*29*	*22*	*22*	*22*	*19*
BC PE fan ops (40%)	*13*	*13*	*0*	*13*	*13*	*0*	*13*	*0*	*0*	*10*	*0*	*0*	*0*	*0*	*13*	*0*	*0*	*0*	*0*	*0*	*13*	*13*	*13*	*10*
BC PE fan ops (30%)	*10*	*10*	*10*	*10*	*10*	*10*	*10*	*10*	*17*	*7.5*	*0*	*0*	*0*	*20*	*14*	*17*	*19*	*0*	*0*	*0*	*22*	*17*	*17*	*17*
BC PE fan ops (20%)	*21*	*21*	*21*	*21*	*21*	*21*	*21*	*21*	*21*	*3.5*	*0*	*0*	*16*	*21*	*21*	*21*	*22*	*0*	*0*	*0*	*18*	*21*	*21*	*21*
L_{eq1h}	**37**	**37**	**37**	**36**	**36**	**38**	**37**	**36**	**36**	**45**	**45**	**46**	**46**	**37**	**37**	**37**	**37**	**42**	**44**	**45**	**40**	**38**	**37**	**37**
L_{eq1h} (adjusted for CNEL calc)	47	47	47	46	46	48	47	36	36	45	45	46	46	37	37	37	37	42	44	50	45	43	47	47

CNEL
45.2


LT1 (R1) August 19-20, 2025
Noise Level (dBA)
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
3:00:00 PM
4:00:00 PM
5:00:00 PM
6:00:00 PM
7:00:00 PM
8:00:00 PM
9:00:00 PM
10:00:00 PM
11:00:00 PM
12:00:00 AM
1:00:00 AM
2:00:00 AM
3:00:00 AM
4:00:00 AM
5:00:00 AM
6:00:00 AM
7:00:00 AM
8:00:00 AM
9:00:00 AM
10:00:00 AM
11:00:00 AM
12:00:00 PM
1:00:00 PM
2:00:00 PM
Time
Leq
Lmax
Lmin
L(10)
L(50)
L(90)


LT2 (R2) August 19-20, 2025
Noise Level (dBA)
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
3:00:00 PM
4:00:00 PM
5:00:00 PM
6:00:00 PM
7:00:00 PM
8:00:00 PM
9:00:00 PM
10:00:00 PM
11:00:00 PM
12:00:00 AM
1:00:00 AM
2:00:00 AM
3:00:00 AM
4:00:00 AM
5:00:00 AM
6:00:00 AM
Time
Leq
Lmax
Lmin
L(10)
L(50)
L(90)

Looking northwest

08/19/25 – Sound Level Meter (SLM) at Position **LT1 ("R1")**
(deployed SLM encircled in yellow dashes)

Looking south

08/19/25 – Sound Level Meter (SLM) at Position **LT2 (“R2”)**
(deployed SLM encircled in yellow dashes)

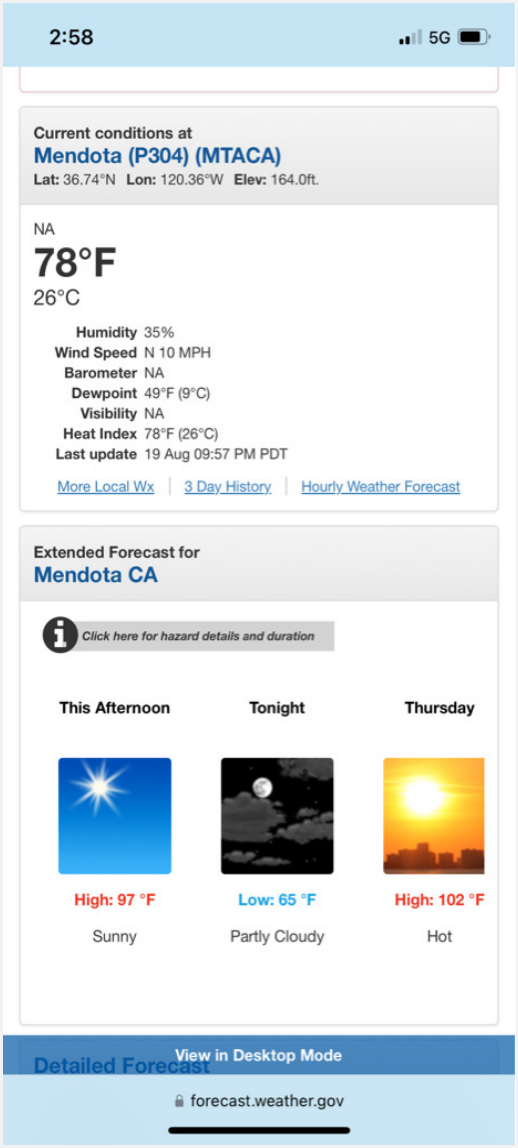
FORMS FIELD DATA REPORT

Field Noise Measurement Data

Record: 2089	
Project Name	*Heartland*
Project #	*18039*
Date	*2025-08-20*
Comments	*Occasional gusty winds*

Meteorological Conditions

Upload NOAA Forecast



Temp (F)	*78*
Humidity % (R.H.)	*35*
Wind	*Light*
Wind Speed (MPH)	*10*
Wind Direction	*North*
Sky	*Clear*

Instrument and Calibrator Information	
Instrument Name List	*(SAC) NL-62*
Instrument Name	*(SAC) NL-62*
Instrument Name Lookup Key	*(SAC) NL-62*
Manufacturer	*Rion*
Model	*NL-62*
Serial Number	*350815*
Calibration Date	*7/16/2018*
Calibrator Name	*(SAC) Rion NC-74*
Calibrator Name	*(SAC) Rion NC-74*
Calibrator Name Lookup Key	*(SAC) Rion NC-74*
Calibrator Manufacturer	*Rion*
Calibrator Model	*NC-74*
Calibrator Serial #	*34167529*
Pre-Test (dBA SPL)	*93.9*
Post-Test (dBA SPL)	*94*

Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*

Monitoring	
Record #	*1*
Site ID	*ST1*
Site Location Lat/Long	*36.632489, -120.406274*
Begin (Time)	*14:56:00*
End (Time)	*15:11:00*
Leq	*42.3*
Lmax	*57.4*
Lmin	*29.2*
Other Lx?	*L90, L50, L10*
L90	*29.7*
L50	*35.3*
L10	*43.9*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos	
Terrain	*Mixed*

Site Photos	
Photo	
Comments / Description	*Facing S*

Site Photos	
Photo	

Comments / Description	*Facing E*

Site Photos

Photo	
Comments / Description	*Facing N*

Site Photos

Photo	

Comments / Description	*Facing W*

Monitoring	
Record #	*2*
Site ID	*ST2*
Site Location Lat/Long	*36.632466, -120.380875*
Begin (Time)	*15:17:00*
End (Time)	*15:32:00*
Leq	*41.5*
Lmax	*48.5*
Lmin	*34.3*
Other Lx?	*L90, L50, L10*
L90	*34.3*
L50	*40.0*
L10	*45.2*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Upload Google Maps Data	
Terrain	*Mixed*

Site Photos

Photo	
Comments / Description	*Facing N*

Site Photos

Photo	
Comments / Description	*Facing W*

Site Photos

Photo	
Comments / Description	*Facing E*

Site Photos	
Photo	
Comments / Description	*Facing S*

Appendix K
Traffic Impact Study

Heartland Hydrogen Solar Project
Transportation Impact Analysis

Transportation Impact Study
May 25, 2023

Prepared by:
VRPA Technologies, Inc.
4630 W. Jennifer, Suite 105
Fresno, CA 93722

Heartland Hydrogen Solar Project
Transportation Impact Study

Study Team

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1.0 Introduction

1.1 Description of the Region/Project

This Transportation Impact Study (TIS) has been prepared for the purpose of analyzing traffic conditions related to the Heartland Hydrogen Solar Project (Project) proposed to develop in Fresno County.

Plans call for the project to construct, operate, maintain, and decommission facilities to generate hydrogen fuel from renewable sources (using photovoltaic [PV] solar energy and treated wastewater) on approximately 2,371 acres of private land in western Fresno County. The Project is located approximately 6.5 miles south of the City of Mendota, and immediately west of State Route 33 (SR 33, also called S. Derrick Avenue). Two locations, together totaling approximately 2,371 acres, are proposed for Project development: City of Mendota-owned property within the City of Mendota Wastewater Treatment Plant (MWWTP) and other property currently owned by the Westlands Water District (WWD) in unincorporated western Fresno County.

Construction activity related to the MWWTP is expected to generate less than 50 total trips per day at any point in the construction process. Therefore, the transportation impacts of this portion of the project are considered to be insignificant and the remainder of the study focuses on analysis of the construction of the solar and hydrogen portions of the project.

Figure 1-1 shows the site's regional context. Figure 1-2 shows the Project location within Fresno County. The project site plan is shown in Appendix A. This TIS is prepared to anticipate the impacts associated with the trips generated during construction of the project.

Following is more detail from the Project Description.

The Project would be capable of producing approximately 30,000 kilograms per day (kg/d)1 of renewable hydrogen for zero emission transportation fuel to be used by fuel-cell electric vehicles operating throughout California. The Project would rely on renewable energy produced by PV solar modules to convert sunlight into electricity, which would be used to split the recycled water into hydrogen and oxygen (electrolysis).

1.1.1 *Project Access*

Primary Project access will be provided at two points along West Adams Avenue. One access point will be west of SR 33 and will provide access to construction activities that take place north and south of Adams Avenue. Some access will also be provided along South Ohio Road. In order to provide a conservative analysis, all project trips were assumed to take access along West Adams Avenue with the intersection at SR 33 acting as the connection point to the remainder of the roadway network.

1.1.2 *Study Area*

The following intersections included in this TIS were determined in consultation with Fresno County staff and include:

Intersections

- ✓ W. Adams Avenue and Derrick Avenue (SR 33)
- ✓ Manning Avenue and Derrick Avenue (SR 33)
- ✓ W. Adams Avenue and Project Access

1.1.3 *Study Scenarios*

The study time periods for the traffic analysis included the weekday AM and PM peak hours determined between 7:00 and 9:00 AM and between 4:00 and 6:00 PM. Level of service analysis for the AM and PM peak hours was analyzed for the following scenarios:

- ✓ Existing Conditions
- ✓ Near-Term Conditions Plus Project Construction Traffic

It should be noted that cumulative developments being built in the vicinity of the project might impact if the peak construction activity occurs at the same period. So, the cumulative impacts from those developments during their peak construction phase are further analyzed and results are included in Appendix E.

1.2 Methodology

When preparing a TIS, guidelines set by affected agencies are followed. In analyzing street and intersection capacities the Level of Service (LOS) methodologies from Highway Capacity Manual (HCM) 6th Edition were applied. The Fresno County LOS standards were applied by transportation agencies to quantitatively assess a street and highway system's performance by rating intersections on a scale of LOS "A" through "F". In addition, safety concerns are analyzed to determine the need for appropriate mitigation resulting from increased traffic near sensitive uses. The trips generated by the project during the operation would be minimal, so this analysis focuses on the trips generated during construction of the project.

1.2.1 *Intersection Analysis*

Intersection LOS analysis was conducted using the Synchro 10 software program. Synchro 10 supports the Highway Capacity Manual (HCM) 6th Edition methodologies and is an acceptable program by Fresno County staff for assessment of traffic effects of projects. Levels of Service

were determined for signalized and unsignalized intersections, as shown in Figure 2-1. It should be noted that the two of the intersections we are studying are currently unsignalized and one of them only exist after the project will be developed.

Tables 1-1 and 1-2 define LOS "A" to "F" by indicating the ranges in the amounts of average delay for a vehicle at signalized and unsignalized intersections for each level of service ranging from LOS "A" to "F".

When an unsignalized intersection does not meet acceptable LOS standards, the investigation of the need for a traffic signal shall be evaluated. The California Manual on Uniform traffic Control Devices for Streets and Highways (California MUTCD) introduces standards for determining the need for traffic signals. The California MUTCD indicates that the satisfaction of one or more traffic signal warrant doesn't in itself require the installation of traffic signal. In addition to warrant analysis, an engineering study of current or expected traffic conditions should be conducted to determine whether the installation of a traffic signal us justified. The California MUTCD Peak Hour Warrant (Warrant 3) was used to determine if a traffic signal is warranted at unsignalized to fall below current LOS standards.

1.3 Policies to Maintain Level of Service

An important goal is to maintain acceptable level of service along the highways, street, and road network. To accomplish this, the Fresno County adopted minimum levels of service in an attempt to control congestion that may result as new development occurs. The project area is served by Fresno County and its General Plan states the minimum LOS is "D".

1.4 Vehicle Miles Traveled (VMT) Analysis

Senate Bill 743 (SB 743) went into effect throughout California on July 1, 2020. This legislation changed the performance measure for CEQA transportation studies from level of service to vehicle miles traveled (VMT). An assessment of potential VMT impacts associated with the Project is provided in Chapter 3 to address CEQA requirements.

Table 1-1
Signalized Intersections Level of Service Definitions (Highway Capacity Manual)

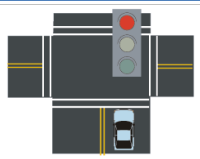
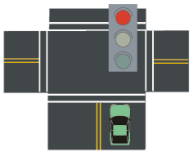
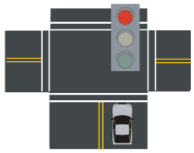
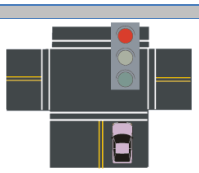
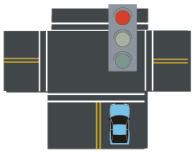
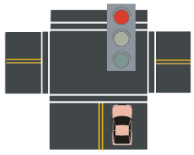
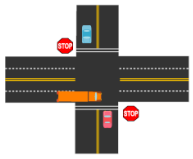
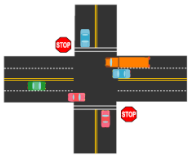
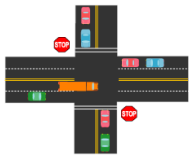
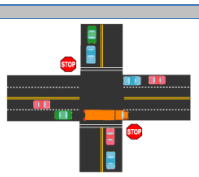
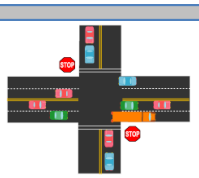
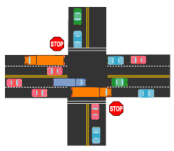
LEVEL OF SERVICE	DEFINITION		AVERAGE TOTAL DELAY (sec/veh)
A	Describes operations with very low delay. This level of service occurs when there is no conflicting traffic for a minor street.		≤ 10.0
B	Describes operations with moderately low delay. This level generally occurs with a small amount of conflicting traffic causing higher levels of average delay.		> 10.0 - 20.0
C	Describes operations with average delays. These higher delays may result from a moderate amount of minor street traffic. Queues begin to get longer.		> 20.0 - 35.0
D	Describes a crowded operation, with below average delays. At level D, the influence of congestion becomes more noticeable. Longer delays may result from shorter gaps on the mainline and an increase of minor street traffic. The queues of vehicles are increasing.		> 35.0 - 55.0
E	Describes operations at or near capacity. This level is considered by many agencies to be the limit of acceptable delay. These high delay values generally indicate poor gaps for the minor street to cross and large queues.		> 55.0 - 80.0
F	Describes operations that are at the failure point. This level, considered to be unacceptable to most drivers, often occurs with over- saturation, that is, when arrival flow rates exceed the capacity of the intersection. Insufficient gaps of suitable size exist to allow minor traffic to cross the intersection safely.		> 80.0

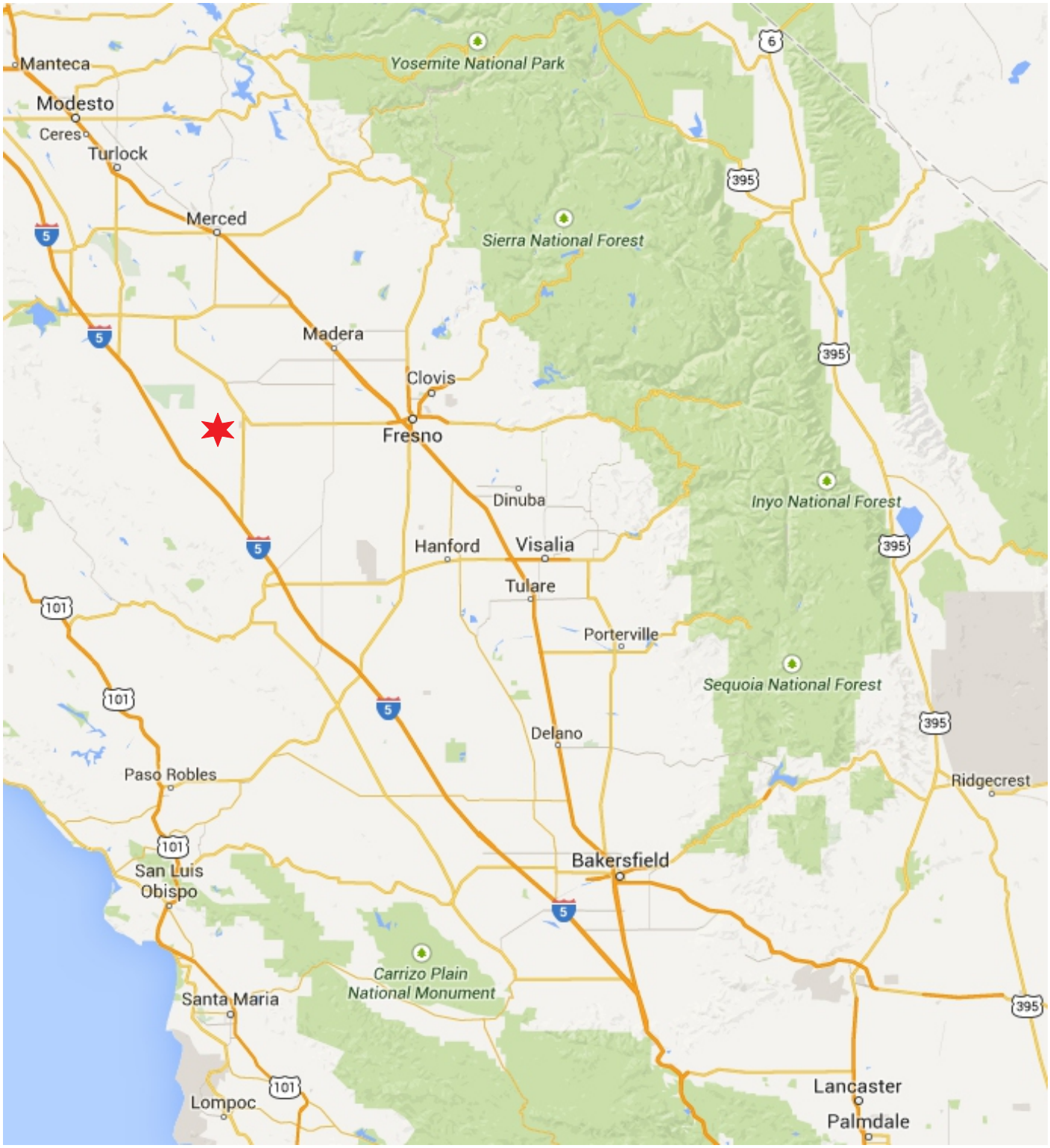
Table 1-2
Unsignalized Intersections Level of Service Definitions (Highway Capacity Manual)

LEVEL OF SERVICE	DEFINITION	AVERAGE TOTAL DELAY (sec/veh)
A	No delay for stop-controlled approaches. 	0 - 10.0
B	Describes operations with minor delay. 	> 10.0 - 15.0
C	Describes operations with moderate delays. 	> 15.0 - 25.0
D	Describes operations with some delays. 	> 25.0 - 35.0
E	Describes operations with high delays and long queues. 	> 35.0 - 50.0
F	Describes operations with extreme congestion, with very high delays and long queues unacceptable to most drivers. 	> 50.0

Heartland Hydrogen Solar Project

Regional Location

Figure 1-M



LEGEND

★ Project Location

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project

Project Location

Figure 1-2

LEGEND

Project Access

Project Location

North

VRPA TECHNOLOGIES, INC.

2.0 Existing Conditions

2.1 Existing Traffic Counts and Roadway Geometrics

The first step toward assessing Project traffic impacts was to assess existing traffic conditions. Existing AM and PM peak hour turning movements were collected at each Project intersection by National Data and Surveying Services. Traffic counts were conducted for the peak hour periods of 7:00-9:00 AM and 4:00-6:00 PM for all key intersections. Counts of the intersections were taken on Thursday, March 30, 2023.

Traffic count data worksheets are provided in Appendix B.

2.2 Affected Streets and Highways

Street and highway intersections and segments near and adjacent to the Project site were analyzed to determine levels of service utilizing HCM-based methodologies described previously. The study intersections included in this TIS are listed below.

Intersections

- ✓ W. Adams Avenue and Derrick Avenue (SR 33)
- ✓ Manning Avenue and Derrick Avenue (SR 33)
- ✓ W. Adams Avenue and Project Access

The existing lane geometry at study area intersections is shown in Figure 2-1. Figures 2-2 and 2-3 shows existing traffic volumes for the AM and PM peak hours in the study area.

2.3 Level of Service

2.3.1 *Intersection Capacity Analysis*

All intersection LOS analyses were estimated using Synchro Software. Various roadway geometrics, traffic volumes, and properties (peak hour factors, storage pocket length, etc.) were input into the Synchro Software program to accurately determine the travel delay and LOS for each Study scenario. The intersection LOS and delays reported represent the HCM outputs. Synchro assumptions, listed below, show the various Synchro inputs and methodologies used in the analysis.

- ✓ **Lane Geometry**
  - Storage lengths for turn lanes for existing intersections were obtained from aerial photos and rounded to the nearest 25 feet
  - VRPA conducted a field study of the specified intersections and segments to verify lane

geometry and intersection control.

✓ **Traffic Conditions**

- Peak hour factors (PHF) for each intersection approach were obtained from traffic counts in the study area and were utilized for Existing Conditions and Near-term (Opening Year) Plus Project Construction Traffic conditions.
- Heavy vehicle percentages were applied as follows and are based on HCM default (3%)
- Roadway link speed limits were observed in the field and input into the Synchro network to determine roadway link speeds
- The traffic volumes for Heavy Trucks were converted to passenger car equivalent estimated at rate of 3.0 for each truck.

Results of the analysis show that all of the study intersections currently operate below LOS B. Fresno County's minimum level of service criteria is LOS 'D' during the peak hour. Table 2-1 shows the intersection LOS for the existing conditions. Synchro 10 (HCM 6th Edition) Worksheets are provided in Appendix D.

Table 2-1
Heartland Hydrogen Solar Project
Existing Intersection Operations

INTERSECTION	CONTROL	TARGET LOS	PEAK HOUR	EXISTING	
				DELAY	LOS
SR 33 and Adams Avenue	Two- Way Stop	D	AM	10.2	B
			PM	10.4	B
SR 33 and Manning Avenue	Two-Way Stop	D	AM	10.4	B
			PM	12.1	B
Adams Avenue and Project Access	One-Way Stop	D	AM	Does not Exist	
			PM		

DELAY is measured in seconds

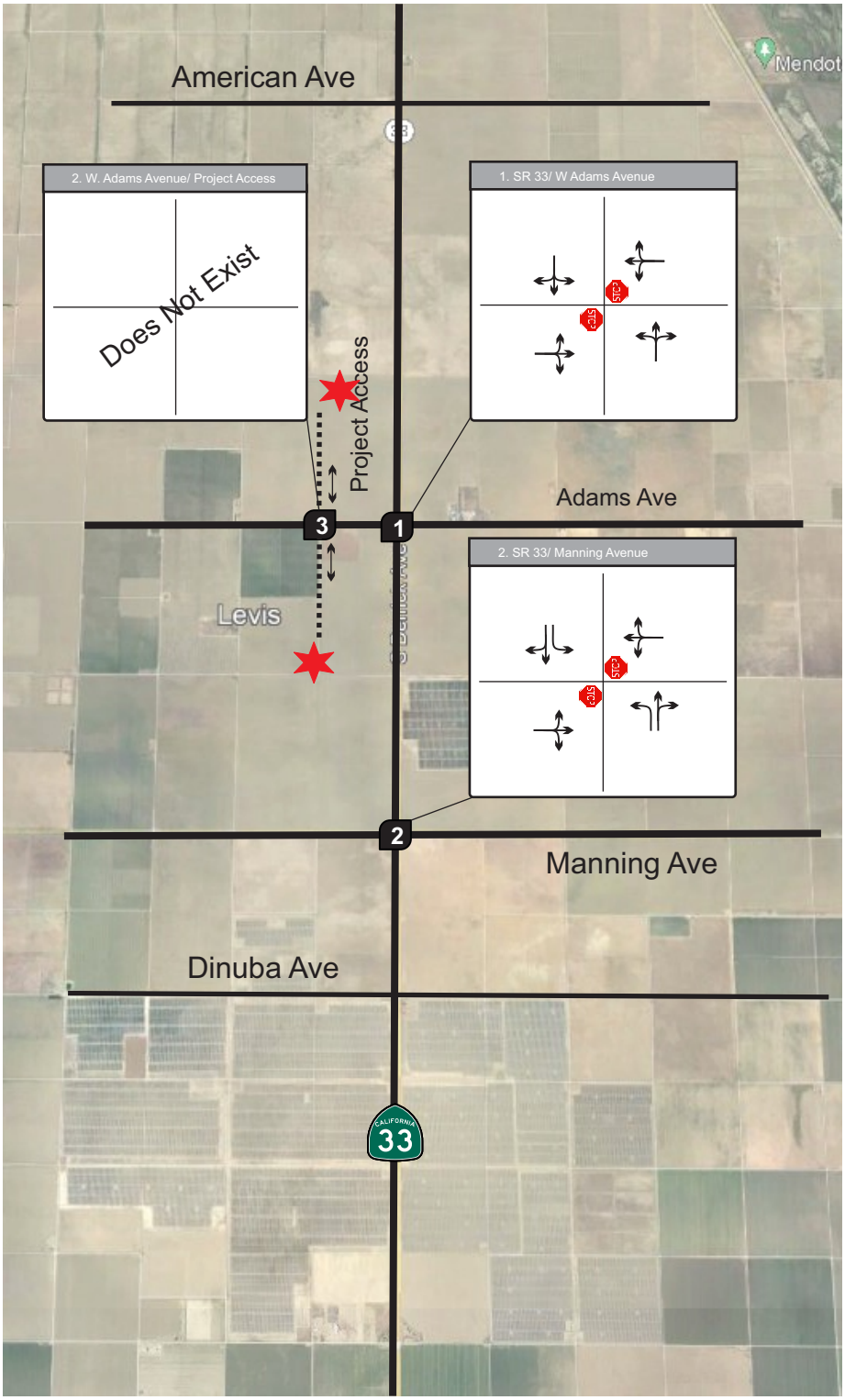
LOS = Level of Service / **BOLD** denotes LOS standard has been exceeded

* No traffic were observed in cross street, so LOS A is assumed in such intersections

For stop controlled intersections, delay results show the delay for the worst movement

Heartland Hydrogen Solar Project
Existing Lane Geometry

Figure 2-1



LEGEND

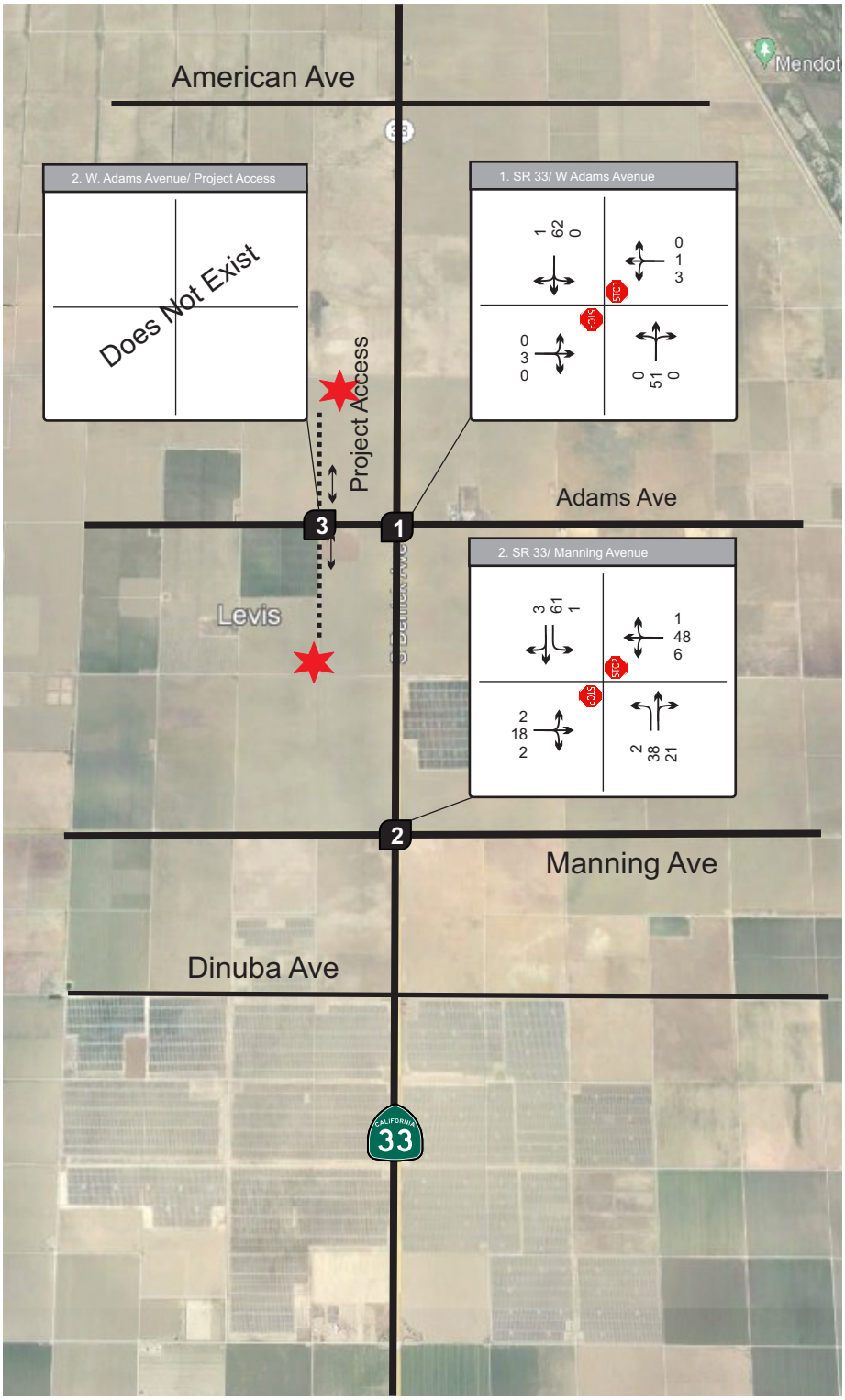
Study Area Intersection
Project Location
Project Access
Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Existing AM Peak Hour Trips

Figure 2-2



LEGEND

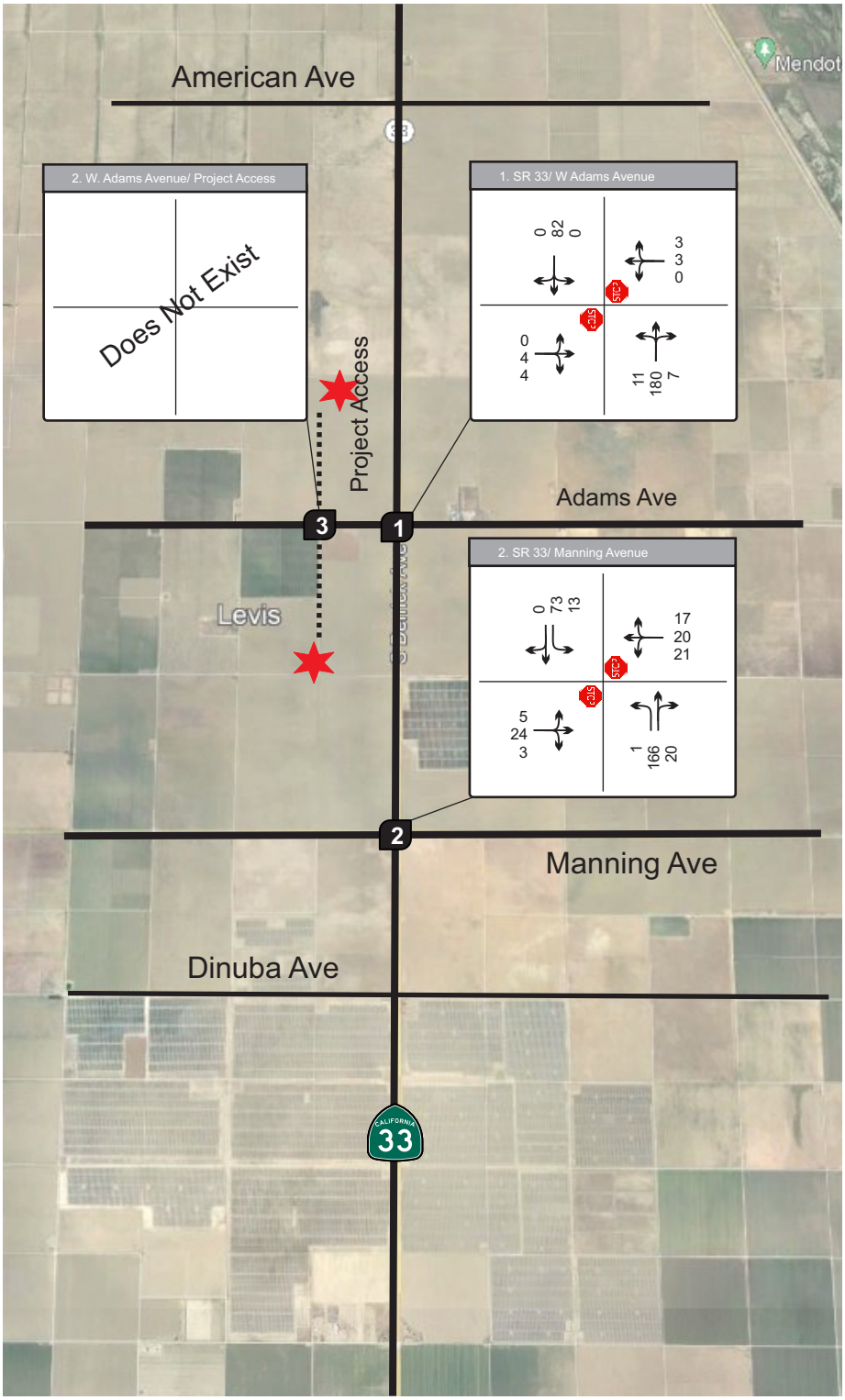
- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Existing PM Peak Hour Trips

Figure 2-3



LEGEND

- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

3.0 Traffic Impacts

This chapter provides an assessment of the traffic the Project is expected to generate and the impact of that traffic on the surrounding street system.

3.1 Trip Generation

To assess the impacts that the Project may have on the surrounding roadway network, the first step is to determine Project trip generation. Project trip generation was determined using the construction worker/truck trip information provided by the Project description, peak hour splits and directional distribution was done using Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition). The results are shown in Table 3-1. Trip generation information from the Project Description is included in Appendix D.

The following assumptions were made to determine project trip generation:

- ✓ Daily construction trips for employees and trucks were based on the peak month of construction operations (Month 4) per the Project Description. A copy of the employee and truck trip analysis from the Project Description is included in the attachments.
- ✓ The percentage of employee and truck trips in the AM and PM peak hours and the directional distribution were determined based on the General Light Industrial category from the ITE trip generation manual based on a development from this category that would generate the same number of trips as the Project.
- ✓ A calculation of passenger car equivalents (PCE's) was included in the trip generation. Construction trucks were assumed to have a PCE value of 3.0.

3.2 Trip Distribution

Project trip distribution is shown in Figure 3-1 and is based upon knowledge of the study area, engineering judgement, prevailing traffic patterns in the study area, major routes, population centers, and other existing development.

Primary project access will be provided at two points along West Adams Avenue. Some access will also be provided and along South Ohio Road. In order to provide a conservative analysis, all project trips were assumed to take access along West Adams Avenue with the intersection at SR 33 acting as the connection point to the remainder of the roadway network.

3.3 Project Traffic

Trips generated during the construction phase of the Project were distributed to the roadway system using the trip distribution percentages shown in Figure 3-1. This results Project traffic in weekday AM and PM peak hour. The Project generates 246 AM peak hour trips and 216 PM peak hour trips during the construction phase. A graphical representation of the resulting AM and PM peak hour Project trips is shown in Figures 3-2 and 3-3.

3.4 Near Term Conditions Plus Project Construction Traffic

The impacts of the Project were analyzed considering Near term traffic conditions corresponding with the peak of construction activity. For the purposes of the traffic analysis, this was assumed to occur in 2024. The levels of traffic expected in 2024 relate to the cumulative effect of traffic increases resulting from the implementation of the General Plans of local agencies, including the Fresno County, were derived by applying an annual growth rate of 2% per year. The traffic generated by the project in construction phase was added to the 2024 counts to analyze the impacts in the study area which are further analyzed. The resulting traffic is shown in Figures 3-4 and 3-5.

It should be noted that there were two cumulative developments being built in the vicinity of the project that might impact if the peak construction activity occurs at the same period. The cumulative impacts of those developments during their peak construction phase are further analyzed and results are included in Appendix E. The results indicate the possibility of level of service E and F conditions if construction activity peaks for the Project and the cumulative projects at the same time. A potential solution if this were to occur would be the use of temporary traffic control personnel.

3.5 Impacts

3.5.1 *Intersection Capacity Analysis*

Table 3-2 shows the results of the intersection capacity analysis for the above-described scenarios. Results of the analysis show that all intersections would operate below the target level of service with the project in the existing and Near-term condition. Therefore, no impacts are associated with respect to the construction of the project.

Synchro capacity analysis worksheets are shown in Appendix C.

3.6 Vehicle Miles Traveled (VMT) Analysis

Senate Bill 743 (SB 743) went into effect throughout California on July 1, 2020. This legislation changed the performance measure for CEQA transportation studies from level of service to vehicle miles traveled (VMT).

Many agencies throughout California have prepared or adopted specific guidelines for VMT analysis to meet the requirements of SB 743. For agencies that do not have their own guidelines, typical practice is to use statewide guidance for VMT analysis. The State of California Governor's Office of Planning and Research (OPR) provided guidance on VMT analysis titled *Technical Advisory on Evaluating Transportation Impacts in CEQA* dated December 2018 (OPR Guidelines). Since Fresno County does not have specific guidance for VMT analysis, the OPR Guidelines were used in this analysis.

It should be noted that the Fresno Council of Governments (Fresno COG) has completed a document titled *Fresno County SB 743 Implementation Regional Guidelines* dated January 2021 that provides guidance on VMT analysis conducted within the Fresno COG region (including the unincorporated area of Fresno County). This guidance is advisory only and individual agencies within the County may choose whether to follow Fresno COG's guidance or use some other methodology for VMT analysis. Fresno County has not approved the use of the Fresno COG guidance.

It should also be noted that truck trips are excluded from VMT analysis per the OPR Guidelines. Therefore, the discussion that follows applies only to employee trips.
For the purposes of the transportation analysis, the project is being analyzed as a construction project. Once construction is complete and regular operations have started, traffic levels associated with operation of the project will not be large enough to require analysis of traffic operations or VMT. During regular options, the solar portion of the project will have 3 employees on a typical day and the hydrogen facility will have 40 employees on a typical day. These 43 employees would be expected to generate 86 daily trips, not including any reductions for carpooling. According to the OPR Guidelines, any project generating less than 110 trips per day can be presumed to have a less than significant impact on VMT.

The OPR Guidelines do not provide and specific guidance for VMT analysis of construction projects. The guidelines do provide some guidance that could apply to VMT analysis for the project follows:

- ✓ "Of land use projects, residential, office, and retail projects tend to have the greatest influence on VMT. For that reason, OPR recommends the quantified thresholds described above for purposes of analysis and mitigation. Lead agencies, using more location-specific information, may develop their own more specific thresholds, which may include other land use types."

- ✓ "To assist in the determination of significance, many lead agencies rely on "thresholds of significance." The CEQA Guidelines define a "threshold of significance" to mean "an identifiable **quantitative, qualitative or performance level** of a particular environmental effect, non-compliance with which means the effect will ***normally*** be determined to be significant by the agency and compliance with which means the effect ***normally*** will be determined to be less than significant." (CEQA Guidelines, § 15064.7, subd. (a) (emphasis added).)"

- ✓ "Generally, qualitative analyses should only be conducted when methods do not exist for undertaking a quantitative analysis."

Since there is no specific guidance for VMT analysis for construction projects and therefore no methodology for a quantitative analysis, a qualitative VMT analysis was used. This analysis follows:

- ✓ CEQA technical analyses typically compare conditions with the project to a no build scenario in which the project would not be built. In this case, the no build condition would result in no construction trips to the project site. However, in a no build condition it would be reasonable to assume that the construction workers who would have built the project would be employed elsewhere on different project sites. There is no reason to believe that construction at different project site would result in shorter trips or lower levels of VMT. The most likely scenario is that the no build condition would include construction trips and VMT generation similar to what would occur if the project were built.

- ✓ If the project were to cause an increase in VMT, no matter how large or small, the VMT increase would be temporary. Even with a construction period of 14 months, the period of VMT generation would be less than 6% of a permanent residential, office, or retail development that would be built at the same time as the project and would be in place through the horizon year of 2046.

Since the project's VMT generation would similar to the VMT generation in a no build scenario and because any increases in VMT would be temporary, the VMT impact of the project is considered to be less than significant. No mitigation measures related to VMT are needed.

3.7 Pavement Analysis

Projects that generate a substantial amount of truck activity typically include an analysis of the effect of the project on pavement on County roads. In this case, the only County roadway that would be affected is the segment of Adams Avenue between the Project site and SR 33. In the project description, it is stated that this section of the roadway will be improved as part of the construction process.

Table 3-1
Heartland Hydrogen Solar Project
Trip Generation at Maximum Level of Construction Activity

Autos

								AM Peak Hour Trips				PM Peak Hour Trips	
Land Use	ITE Code (1)	Units	Size	Daily Trip Generation Rate	Daily Trips	AM Peak Hour Rate	% Inbound	In	Out	PM Peak Hour rate	% Inbound	In	Out
Hydorgen/Solar Facility	110	Employees	569	1.60	910	0.41	83%	194	40	0.37	22%	46	164
					910		Subtotal	194	40		Subtotal	46	164
							Total trips	234			Total trips	210	

Trucks

								AM Peak Hour Truck Trips				PM Peak Hour Truck Trips	
Land Use	ITE Code (1)	Units	Size	Daily Trip Generation Rate	External Daily Trips	AM Peak Hour rate	% Inbound	In	Out	PM Peak Hour rate	% Inbound	In	Out
Hydorgen/Solar Facility	110	Employees	569	0.114	65	0.007	83%	3	1	0.004	22%	1	1
					65		Subtotal	3	1		Subtotal	1	1
							Total trips	4			Total trips	2	

Total Vehicles

								AM Peak Hour Trips				PM Peak Hour Trips	
Land Use	ITE Code (1)	Units	Size	Daily Trip Generation Rate	External Daily Trips	AM Peak Hour rate	In:Out Split	In	Out	PM Peak Hour rate	In:Out Split	In	Out
Hydorgen/Solar Facility	110	Employees	569	N/A	975	N/A	N/A	197	41	N/A	N/A	47	165
					975		Subtotal	197	41		Subtotal	47	165
							Total trips	238			Total trips	212	

Passenger Car Equivalents (2)

								AM Peak Hour Trips				PM Peak Hour Trips	
Land Use	ITE Code (1)	Units	Size	Daily Trip Generation Rate	External Daily Trips	AM Peak Hour rate	In:Out Split	In	Out	PM Peak Hour rate	In:Out Split	In	Out
Hydorgen/Solar Facility	110	Employees	569	N/A	1,105	N/A	N/A	203	43	N/A	N/A	49	167
					1,105		Subtotal	203	43		Subtotal	49	167
							Total trips	246			Total trips	216	

Notes:
(1) Daily total trip generation for autos and trucks was based on the project description. Peak hour trips were based on the General Light Industrial category (Land Use Code 110) from the Institute of Transportation engineers Trip Generation Manual, 11th Edition.
(2) Passenger car equivalents were estimaed to be 1.0 for autos and 3.0 for trucks.

Table 3-2
Heartland Hydrogen Solar Project
Project Construction Operation

INTERSECTION	CONTROL	TARGET LOS	PEAK HOUR	NEAR TERM PLUS PROJECT CONSTRUCTION TRAFFIC	
				DELAY	LOS
SR 33 and Adams Avenue	Two- Way Stop	D	AM	16.0	C
			PM	19.4	C
SR 33 and manning Avenue	Two-Way Stop	D	AM	11.4	B
			PM	12.8	B
Adams Avenue and Project Access	Two-Way Stop	D	AM	11.2	B
			PM	10.5	B

DELAY is measured in seconds

LOS = Level of Service / **BOLD** denotes LOS standard has been exceeded

* No traffic were observed in cross street, so LOS A is assumed in such intersections

For stop controlled intersections, delay results show the delay for the worst movement

Table 3-3
Heartland Hydrogen Solar Project
Trip Generation for VMT Analysis - Construction Trips

	Daily Trips														
Month	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**Total**
Hydrogen Facility Worker	10	12	34	53	96	138	184	250	218	189	160	142	125	56	1666
Solar Facility Worker	136	168	216	856	736	736	736	672	672	672	672	672	50	40	7034
Wastewater Treatment Plant Worker	36	36	36	36	36	36	36	36	36	36	36	36	36	36	504
Total	182	216	286	945	868	910	956	958	926	897	868	850	211	132	9204

Heartland Hydrogen Solar Project
Trip Distribution

Figure 3-1

LEGEND

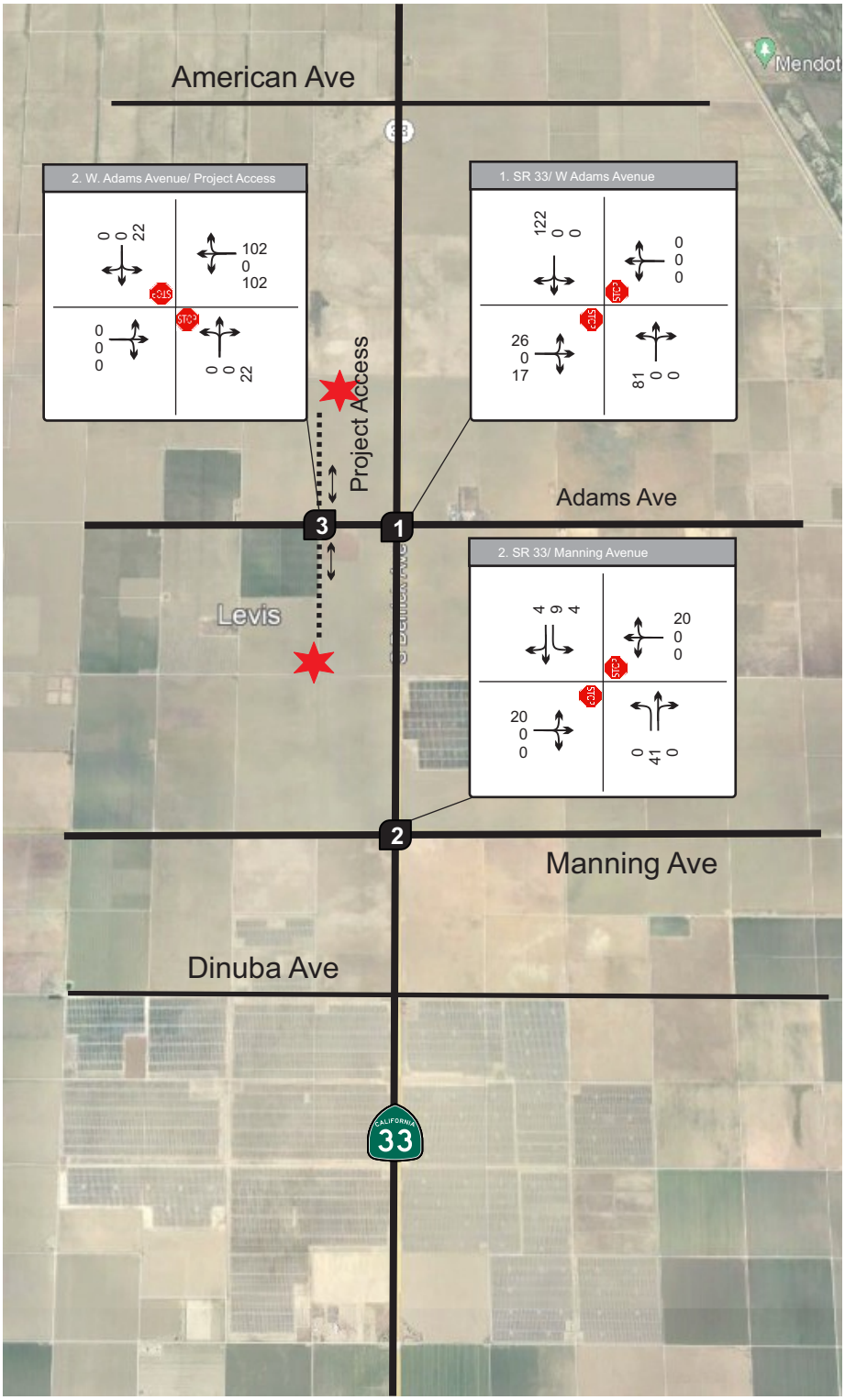
- Project Location
- # Study Area Intersection
- Project Access
- XX% Percentage of Trips

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Project AM Peak Hour Trips

Figure 3-2



LEGEND

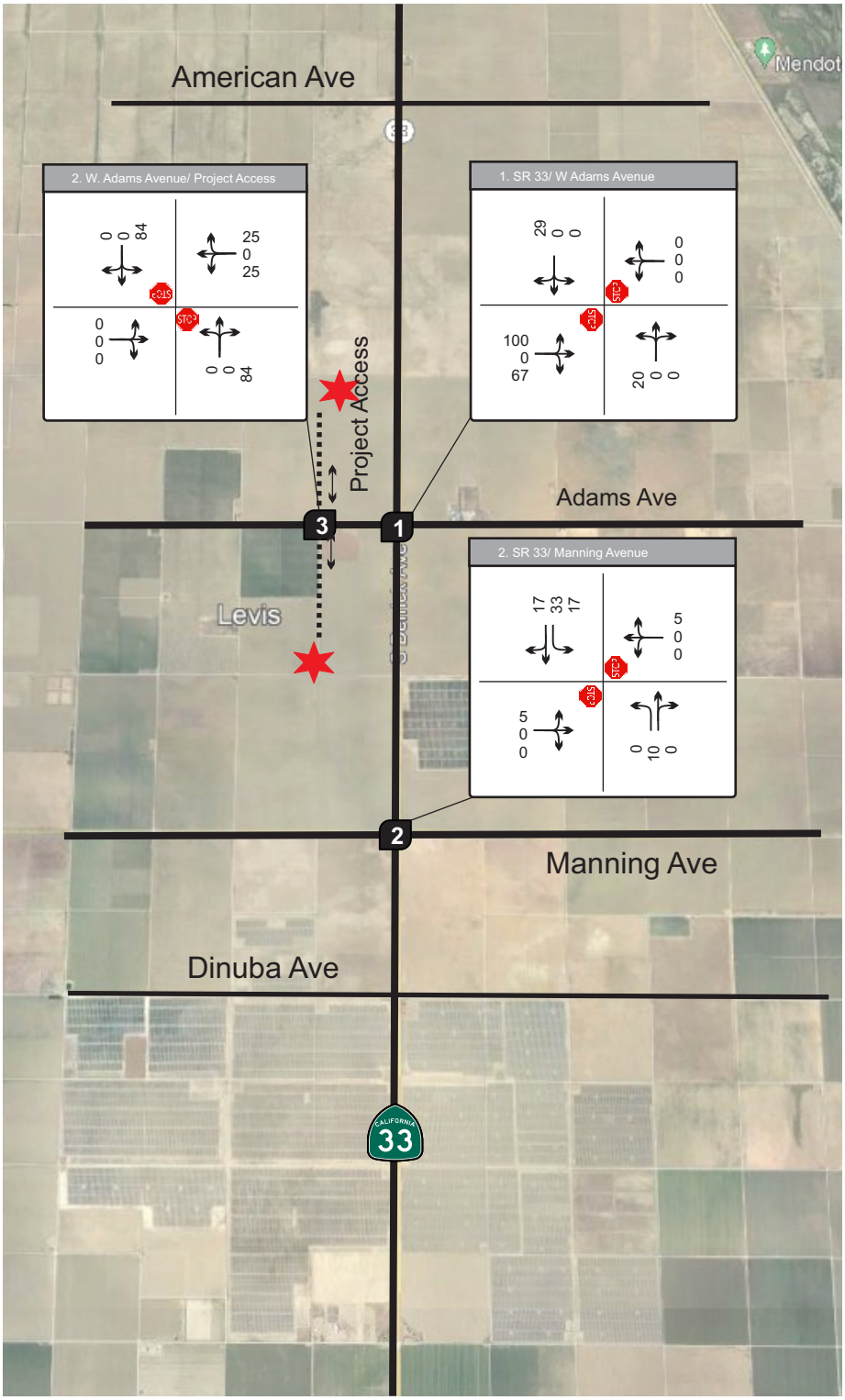
- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Project PM Peak Hour Trips

Figure 3-3



LEGEND

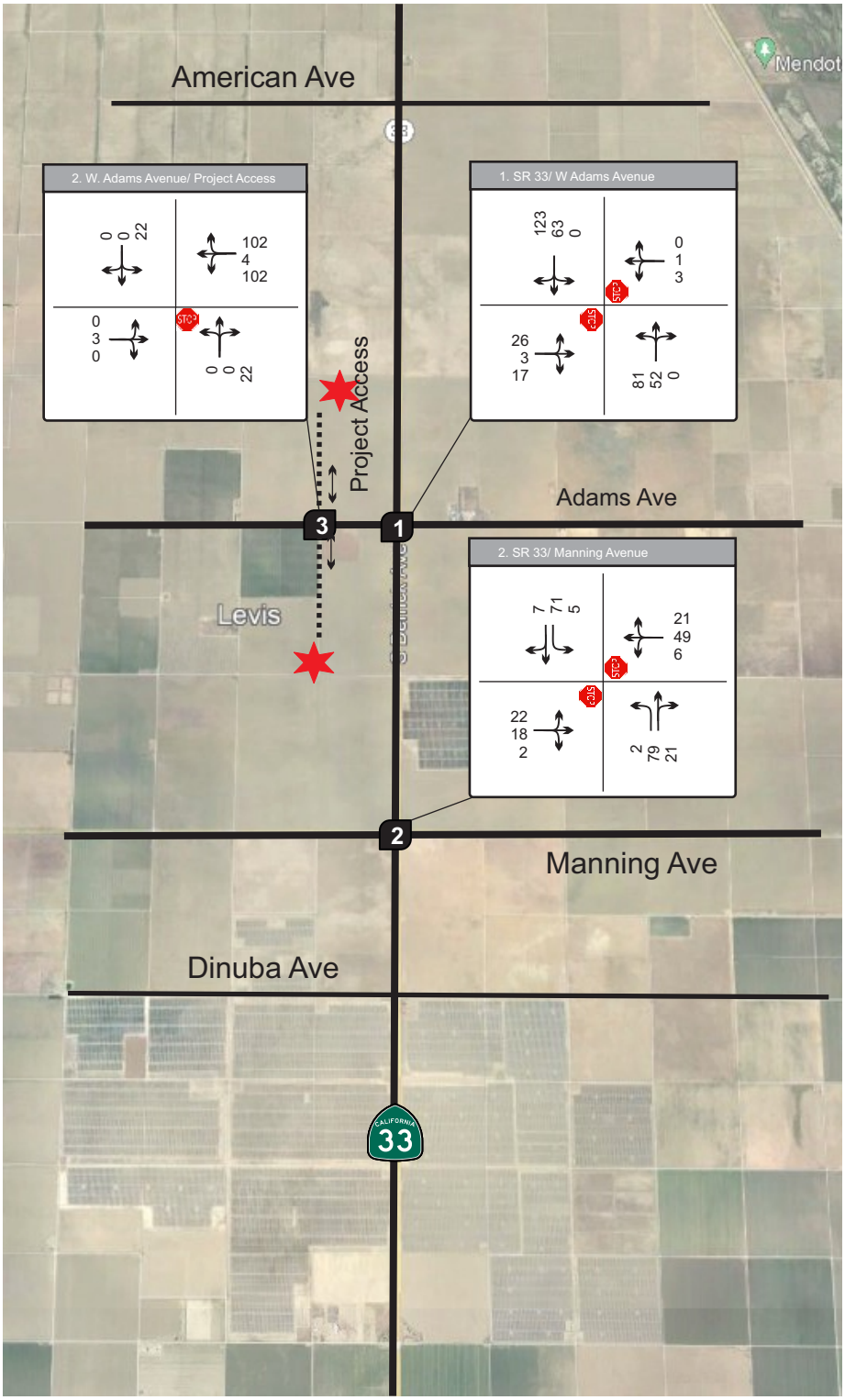
- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Near Term Plus Project Construction AM Peak Hour Traffic

Figure 3-4



LEGEND

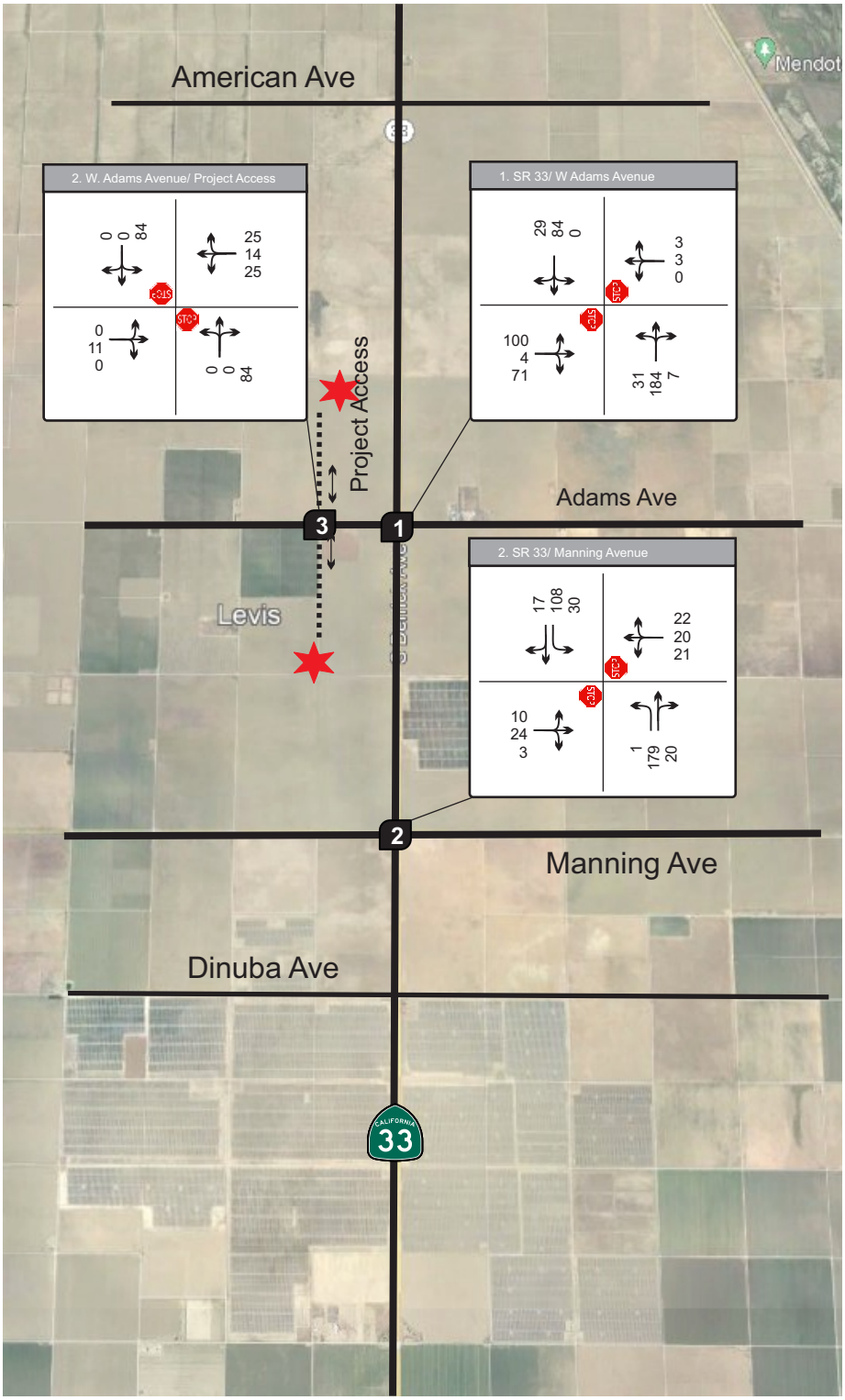
- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Near Term Plus Project Construction PM Peak Hour Traffic

Figure 3-5



LEGEND

- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

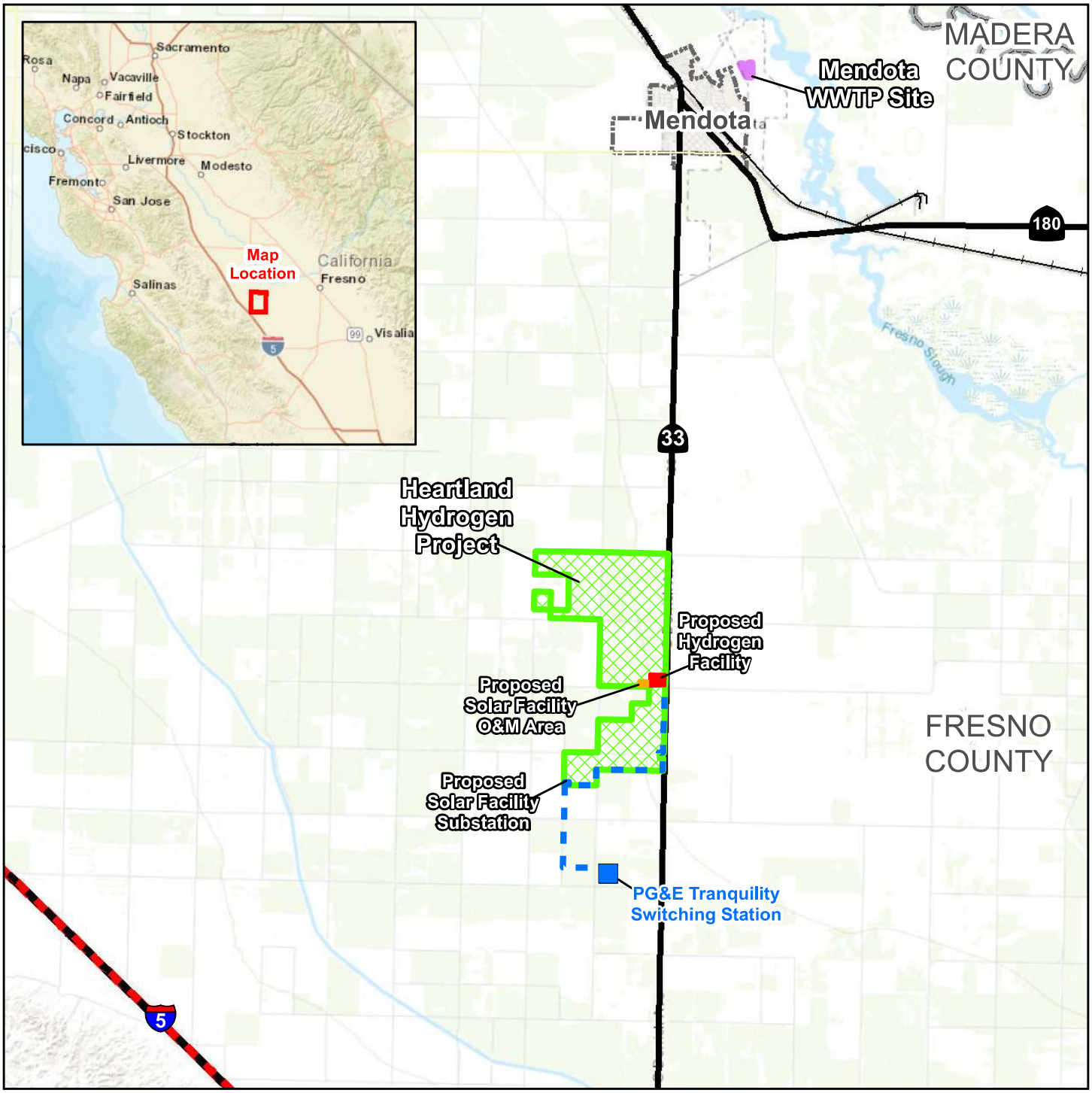
VRPA TECHNOLOGIES, INC.

4.0 Mitigation

Based on the results of Chapters 1 through 3, all intersections in the traffic analysis study area are expected to operate at target levels of service or better with the project in the existing and all Near term scenarios. Therefore, no mitigation measures are needed.

Appendix

Appendix-A
Site Plan



LEGEND

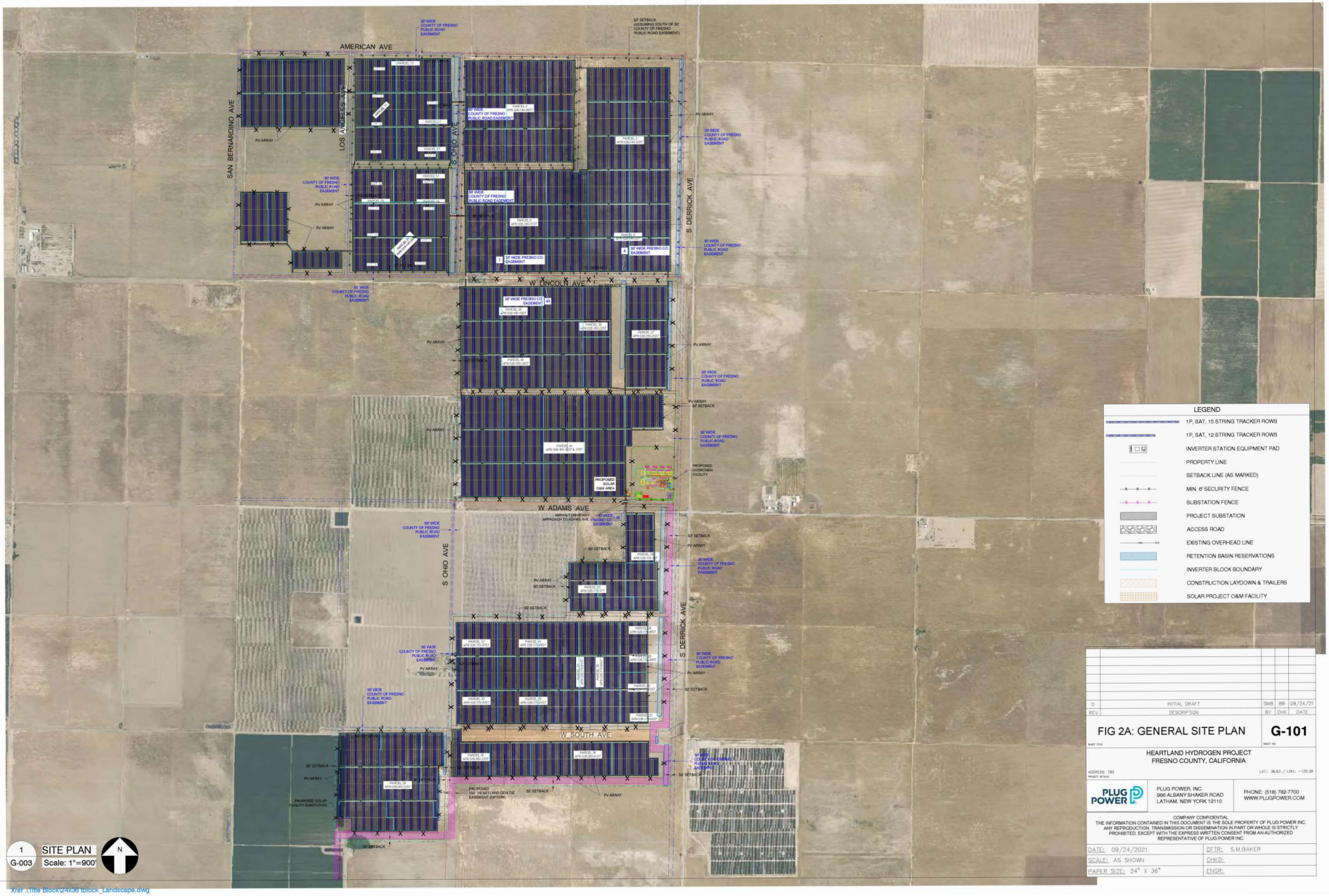
- Switching Station
- Gen-Tie / Elecric Service Line Route
- Interstate
- State Highway
- Railroad
- Heartland Hydrogen Project
- Mendota WWTP Site
- Solar Facility Substation
- Hydrogen Facility
- Solar Facility O&M Area
- County Boundary

HEARTLAND HYDROGEN PROJECT

Fig 1: General Location Map

Map Extent: Fresno County, CA

0 0.5 1 1.5 2
Miles



1 G-003 SITE PLAN Scale: 1"=900'

N

Xref .\Title Block\24x36 tblock_Landscape.dwg

REV	DESCRIPTION	BY	CHK	DATE
0	INITIAL DRAFT	SMB	BB	09/24/21

FIG 2A: GENERAL SITE PLAN

G-101

HEARTLAND HYDROGEN PROJECT
FRESNO COUNTY, CALIFORNIA

ADDRESS: TBD
LAT.: 36.63 / LON.: -120.39

PLUG POWER

PLUG POWER, INC.
968 ALBANY SHAKER ROAD
LATHAM, NEW YORK 12110

PHONE: (518) 782-7700
WWW.PLUGPOWER.COM

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DATE: 09/24/2021	DFTR: S.M.BAKER
SCALE: AS SHOWN	CHKD:
PAPER SIZE: 24" X 36"	ENGR:

Appendix-B
Traffic Count Data Worksheets

Prepared by National Data & Surveying Services

SR 33 & Manning Ave

Peak Hour Turning Movement Count

ID: 23-090036-002
City: Cantua Creek

Day: Thursday
Date: 3/30/2023

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	7:00 AM - 09:00 AM
NONE	NONE
04:00 PM - 05:00 PM	4:00 PM - 06:00 PM

SR 33

SOUTHBOUND

AM	3	47	1	0	33	AM
NOON	0	0	0	0	0	NOON
PM	0	51	7	0	120	PM

EASTBOUND (Manning Ave)

AM	NOON	PM		
31	0	19	⇦	
0	0	0	↶	0
2	0	3	↱	0
10	0	20	→	1
2	0	1	↷	0
AM	NOON	PM		

WESTBOUND (Manning Ave)

PM	NOON	AM		
			⇧	
17	0	1	↶	0
18	0	26	←	1
19	0	6	↰	0
0	0	0	↩	0
39	0	26	⇨	
PM	NOON	AM		

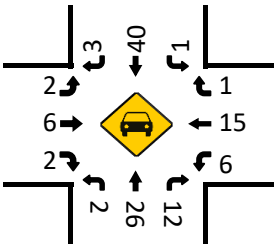
PM	71	0	1	100	12	PM
NOON	0	0	0	0	0	NOON
AM	55	0	2	30	15	AM

NORTHBOUND

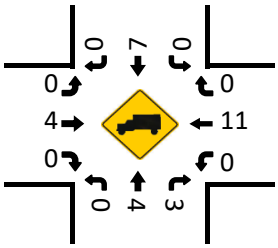
SR 33

CONTROL			
2-Way Stop(EB/WB)			
TEV	145 AM	0 NOON	249 PM
PHF	0.98		0.92

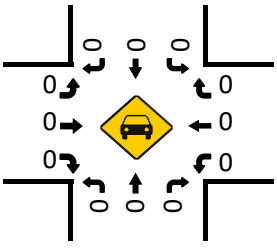
Cars (AM)



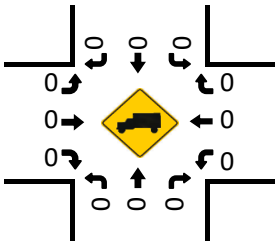
HT (AM)



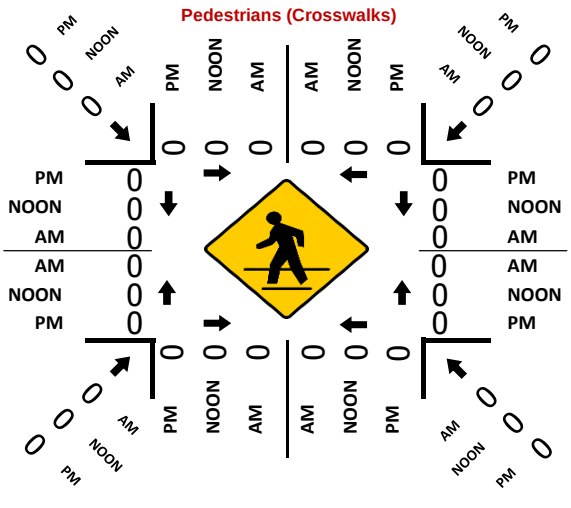
Cars (NOON)



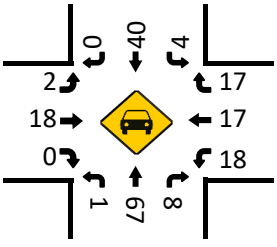
HT (NOON)



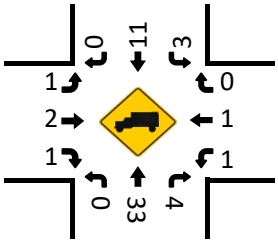
Pedestrians (Crosswalks)



Cars (PM)



HT (PM)



Prepared by National Data & Surveying Services

SR 33 & W Adams Ave

Peak Hour Turning Movement Count

ID: 23-090036-001
City: Mendota

Day: Thursday
Date: 3/30/2023

PEAK HOURS	COUNT PERIODS
07:00 AM - 08:00 AM	7:00 AM - 09:00 AM
NONE	NONE
04:00 PM - 05:00 PM	4:00 PM - 06:00 PM

CONTROL: 2-Way Stop(EB/WB)

	AM	NOON	PM
TEV	91	0	190
PHF	0.88		0.85

SOUTHBOUND (SR 33)

	L	T	R	U	Total	
AM	1	52	0	0	30	AM
NOON	0	0	0	0	0	NOON
PM	0	54	0	0	117	PM

EASTBOUND (W Adams Ave)

	L	T	R	U	Total	
AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	1	0	0	2	PM

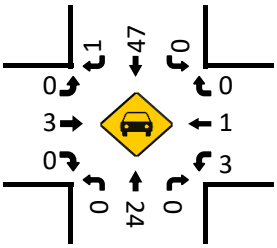
WESTBOUND (W Adams Ave)

	L	T	R	U	Total	
AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	3	4	0	7	PM

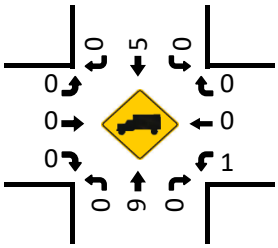
NORTHBOUND (SR 33)

	L	T	R	U	Total	
AM	56	0	0	30	0	AM
NOON	0	0	0	0	0	NOON
PM	58	0	5	116	3	PM

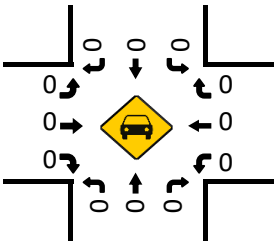
Cars (AM)



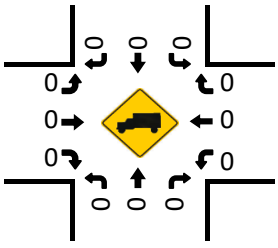
HT (AM)



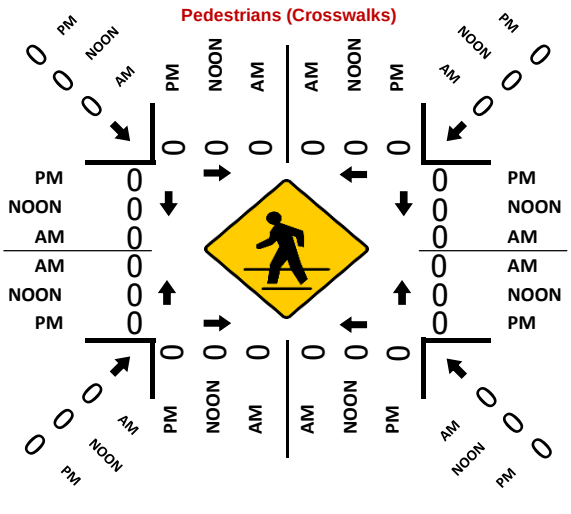
Cars (NOON)



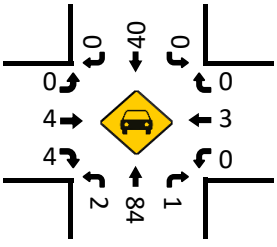
HT (NOON)



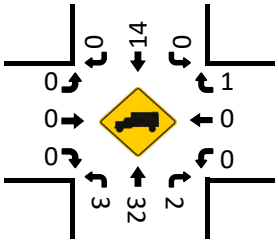
Pedestrians (Crosswalks)



Cars (PM)



HT (PM)



Appendix-C
Synchro 10 Worksheets

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	3	0	3	1	0	0	51	0	0	62	1
Future Vol, veh/h	0	3	0	3	1	0	0	51	0	0	62	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	75	75	75	41	41	41	50	50	50	70	70	70
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	0	4	0	7	2	0	0	102	0	0	89	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	193	192	90	194	192	102	90	0	0	102	0	0
Stage 1	90	90	-	102	102	-	-	-	-	-	-	-
Stage 2	103	102	-	92	90	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	764	701	965	763	701	950	1499	-	-	1484	-	-
Stage 1	915	818	-	902	809	-	-	-	-	-	-	-
Stage 2	900	809	-	913	818	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	762	701	965	760	701	950	1499	-	-	1484	-	-
Mov Cap-2 Maneuver	762	701	-	760	701	-	-	-	-	-	-	-
Stage 1	915	818	-	902	809	-	-	-	-	-	-	-
Stage 2	897	809	-	909	818	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.2	9.9	0	0
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1499	-	-	701	744	1484	-	-
HCM Lane V/C Ratio	-	-	-	0.006	0.013	-	-	-
HCM Control Delay (s)	0	-	-	10.2	9.9	0	-	-
HCM Lane LOS	A	-	-	B	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0	0	-	-

Intersection	
Int Delay, s/veh	4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↰	↱		↰	↱	
Traffic Vol, veh/h	2	18	2	6	48	1	2	38	21	1	61	3
Future Vol, veh/h	2	18	2	6	48	1	2	38	21	1	61	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	300	-	-	325	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	70	70	70	75	75	75	78	78	78	71	71	71
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	3	26	3	8	64	1	3	49	27	1	86	4

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	191	172	88	174	161	63	90	0	0	76	0	0
Stage 1	90	90	-	69	69	-	-	-	-	-	-	-
Stage 2	101	82	-	105	92	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	767	719	968	787	729	999	1499	-	-	1517	-	-
Stage 1	915	818	-	939	835	-	-	-	-	-	-	-
Stage 2	903	825	-	898	817	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	713	717	968	762	727	999	1499	-	-	1517	-	-
Mov Cap-2 Maneuver	713	717	-	762	727	-	-	-	-	-	-	-
Stage 1	913	817	-	937	833	-	-	-	-	-	-	-
Stage 2	831	823	-	867	816	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.1	10.4	0.2	0.1
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1499	-	-	734	734	1517	-	-
HCM Lane V/C Ratio	0.002	-	-	0.043	0.1	0.001	-	-
HCM Control Delay (s)	7.4	-	-	10.1	10.4	7.4	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.3	0	-	-

Intersection	
Int Delay, s/veh	1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	0	4	4	0	3	3	11	180	7	0	82	0
Future Vol, veh/h	0	4	4	0	3	3	11	180	7	0	82	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	81	81	81	64	64	64
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	0	8	8	0	6	6	14	222	9	0	128	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	389	387	128	391	383	227	128	0	0	231	0	0
Stage 1	128	128	-	255	255	-	-	-	-	-	-	-
Stage 2	261	259	-	136	128	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	568	546	919	566	549	810	1452	-	-	1331	-	-
Stage 1	873	788	-	747	695	-	-	-	-	-	-	-
Stage 2	742	692	-	865	788	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	554	540	919	550	543	810	1452	-	-	1331	-	-
Mov Cap-2 Maneuver	554	540	-	550	543	-	-	-	-	-	-	-
Stage 1	863	788	-	739	687	-	-	-	-	-	-	-
Stage 2	722	684	-	849	788	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.4	10.6	0.4	0
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1452	-	-	680	650	1331	-	-
HCM Lane V/C Ratio	0.009	-	-	0.024	0.018	-	-	-
HCM Control Delay (s)	7.5	0	-	10.4	10.6	0	-	-
HCM Lane LOS	A	A	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-	-

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↰	↑		↰	↑	
Traffic Vol, veh/h	5	24	3	21	20	17	1	166	20	13	73	0
Future Vol, veh/h	5	24	3	21	20	17	1	166	20	13	73	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	300	-	-	325	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	60	60	60	48	48	48	81	81	81	91	91	91
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	8	40	5	44	42	35	1	205	25	14	80	0

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	366	340	80	351	328	218	80	0	0	230	0	0
Stage 1	108	108	-	220	220	-	-	-	-	-	-	-
Stage 2	258	232	-	131	108	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	588	580	977	602	589	819	1512	-	-	1332	-	-
Stage 1	895	804	-	780	719	-	-	-	-	-	-	-
Stage 2	744	711	-	870	804	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	527	573	977	562	582	819	1512	-	-	1332	-	-
Mov Cap-2 Maneuver	527	573	-	562	582	-	-	-	-	-	-	-
Stage 1	894	795	-	779	718	-	-	-	-	-	-	-
Stage 2	670	710	-	813	795	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.7	12.1	0	1.2
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1512	-	-	588	627	1332	-	-
HCM Lane V/C Ratio	0.001	-	-	0.091	0.193	0.011	-	-
HCM Control Delay (s)	7.4	-	-	11.7	12.1	7.7	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.7	0	-	-

Intersection	
Int Delay, s/veh	3.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	26	3	17	3	1	0	81	52	0	0	63	123
Future Vol, veh/h	26	3	17	3	1	0	81	52	0	0	63	123
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	75	75	75	41	41	41	50	50	50	70	70	70
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	35	4	23	7	2	0	162	104	0	0	90	176

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	607	606	178	620	694	104	266	0	0	104	0	0
Stage 1	178	178	-	428	428	-	-	-	-	-	-	-
Stage 2	429	428	-	192	266	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	407	410	862	399	365	948	1292	-	-	1481	-	-
Stage 1	821	750	-	603	583	-	-	-	-	-	-	-
Stage 2	602	583	-	807	687	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	363	355	862	346	316	948	1292	-	-	1481	-	-
Mov Cap-2 Maneuver	363	355	-	346	316	-	-	-	-	-	-	-
Stage 1	712	750	-	523	505	-	-	-	-	-	-	-
Stage 2	519	505	-	782	687	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	14	16	5	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1292	-	-	461	338	1481	-	-
HCM Lane V/C Ratio	0.125	-	-	0.133	0.029	-	-	-
HCM Control Delay (s)	8.2	0	-	14	16	0	-	-
HCM Lane LOS	A	A	-	B	C	A	-	-
HCM 95th %tile Q(veh)	0.4	-	-	0.5	0.1	0	-	-

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	22	18	2	6	49	21	2	79	21	5	71	7
Future Vol, veh/h	22	18	2	6	49	21	2	79	21	5	71	7
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	300	-	-	325	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	70	70	70	75	75	75	78	78	78	71	71	71
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	31	26	3	8	65	28	3	101	27	7	100	10

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	286	253	105	255	245	115	110	0	0	128	0	0
Stage 1	119	119	-	121	121	-	-	-	-	-	-	-
Stage 2	167	134	-	134	124	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	664	649	947	696	655	935	1474	-	-	1452	-	-
Stage 1	883	795	-	881	794	-	-	-	-	-	-	-
Stage 2	833	784	-	867	791	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	592	644	947	670	650	935	1474	-	-	1452	-	-
Mov Cap-2 Maneuver	592	644	-	670	650	-	-	-	-	-	-	-
Stage 1	881	791	-	879	792	-	-	-	-	-	-	-
Stage 2	740	782	-	832	787	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.4	10.9	0.1	0.5
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1474	-	-	625	712	1452	-	-
HCM Lane V/C Ratio	0.002	-	-	0.096	0.142	0.005	-	-
HCM Control Delay (s)	7.4	-	-	11.4	10.9	7.5	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.5	0	-	-

Intersection	
Int Delay, s/veh	4.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	3	0	102	4	102	0	0	22	22	0	0
Future Vol, veh/h	0	3	0	102	4	102	0	0	22	22	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	0	3	0	111	4	111	0	0	24	24	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	115	0	0	3	0	0	285	340	3	297	285	60
Stage 1	-	-	-	-	-	-	3	3	-	282	282	-
Stage 2	-	-	-	-	-	-	282	337	-	15	3	-
Critical Hdwy	4.13	-	-	4.13	-	-	7.13	6.53	6.23	7.13	6.53	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-	6.13	5.53	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.13	5.53	-	6.13	5.53	-
Follow-up Hdwy	2.227	-	-	2.227	-	-	3.527	4.027	3.327	3.527	4.027	3.327
Pot Cap-1 Maneuver	1468	-	-	1612	-	-	665	580	1078	653	623	1003
Stage 1	-	-	-	-	-	-	1017	891	-	723	676	-
Stage 2	-	-	-	-	-	-	723	639	-	1002	891	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1468	-	-	1612	-	-	627	537	1078	602	576	1003
Mov Cap-2 Maneuver	-	-	-	-	-	-	627	537	-	602	576	-
Stage 1	-	-	-	-	-	-	1017	891	-	723	625	-
Stage 2	-	-	-	-	-	-	669	591	-	980	891	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	3.6	8.4	11.2
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1078	1468	-	-	1612	-	-	602
HCM Lane V/C Ratio	0.022	-	-	-	0.069	-	-	0.04
HCM Control Delay (s)	8.4	0	-	-	7.4	0	-	11.2
HCM Lane LOS	A	A	-	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0.2	-	-	0.1

Intersection	
Int Delay, s/veh	8.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	100	4	71	0	3	3	31	184	7	0	84	29
Future Vol, veh/h	100	4	71	0	3	3	31	184	7	0	84	29
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	81	81	81	64	64	64
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	200	8	142	0	6	6	38	227	9	0	131	45

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	468	466	154	537	484	232	176	0	0	236	0	0
Stage 1	154	154	-	308	308	-	-	-	-	-	-	-
Stage 2	314	312	-	229	176	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	504	493	889	453	481	805	1394	-	-	1325	-	-
Stage 1	846	768	-	700	658	-	-	-	-	-	-	-
Stage 2	695	656	-	772	752	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	484	478	889	367	466	805	1394	-	-	1325	-	-
Mov Cap-2 Maneuver	484	478	-	367	466	-	-	-	-	-	-	-
Stage 1	820	768	-	678	638	-	-	-	-	-	-	-
Stage 2	662	636	-	642	752	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	19.4	11.2	1.1	0
HCM LOS	C	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1394	-	-	594	590	1325	-	-
HCM Lane V/C Ratio	0.027	-	-	0.589	0.02	-	-	-
HCM Control Delay (s)	7.7	0	-	19.4	11.2	0	-	-
HCM Lane LOS	A	A	-	C	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	3.8	0.1	0	-	-

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕		↰	↑		↰	↑	
Traffic Vol, veh/h	10	24	3	21	20	22	1	179	20	13	108	17
Future Vol, veh/h	10	24	3	21	20	22	1	179	20	13	108	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	300	-	-	325	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	60	60	60	48	48	48	81	81	81	91	91	91
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	17	40	5	44	42	46	1	221	25	14	119	19

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	437	405	129	415	402	234	138	0	0	246	0	0
Stage 1	157	157	-	236	236	-	-	-	-	-	-	-
Stage 2	280	248	-	179	166	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	528	533	918	546	535	803	1440	-	-	1314	-	-
Stage 1	843	766	-	765	708	-	-	-	-	-	-	-
Stage 2	725	699	-	820	759	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	464	527	918	507	529	803	1440	-	-	1314	-	-
Mov Cap-2 Maneuver	464	527	-	507	529	-	-	-	-	-	-	-
Stage 1	842	758	-	764	707	-	-	-	-	-	-	-
Stage 2	643	698	-	764	751	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	12.8	12.8	0	0.7
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1440	-	-	526	591	1314	-	-
HCM Lane V/C Ratio	0.001	-	-	0.117	0.222	0.011	-	-
HCM Control Delay (s)	7.5	-	-	12.8	12.8	7.8	-	-
HCM Lane LOS	A	-	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.4	0.8	0	-	-

Intersection	
Int Delay, s/veh	7.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	11	0	25	14	25	0	0	84	84	0	0
Future Vol, veh/h	0	11	0	25	14	25	0	0	84	84	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	0	12	0	27	15	27	0	0	91	91	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	42	0	0	12	0	0	95	108	12	141	95	29
Stage 1	-	-	-	-	-	-	12	12	-	83	83	-
Stage 2	-	-	-	-	-	-	83	96	-	58	12	-
Critical Hdwy	4.13	-	-	4.13	-	-	7.13	6.53	6.23	7.13	6.53	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-	6.13	5.53	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.13	5.53	-	6.13	5.53	-
Follow-up Hdwy	2.227	-	-	2.227	-	-	3.527	4.027	3.327	3.527	4.027	3.327
Pot Cap-1 Maneuver	1561	-	-	1600	-	-	886	780	1066	827	793	1043
Stage 1	-	-	-	-	-	-	1006	884	-	923	824	-
Stage 2	-	-	-	-	-	-	923	814	-	951	884	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1561	-	-	1600	-	-	874	767	1066	746	780	1043
Mov Cap-2 Maneuver	-	-	-	-	-	-	874	767	-	746	780	-
Stage 1	-	-	-	-	-	-	1006	884	-	923	810	-
Stage 2	-	-	-	-	-	-	907	800	-	870	884	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	2.8	8.7	10.5
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1066	1561	-	-	1600	-	-	746
HCM Lane V/C Ratio	0.086	-	-	-	0.017	-	-	0.122
HCM Control Delay (s)	8.7	0	-	-	7.3	0	-	10.5
HCM Lane LOS	A	A	-	-	A	A	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0.1	-	-	0.4

Appendix-D
Employee and Truck Trips based on Project Description

Heartland Hydrogen Project
Worker Commute and Delivery Assumptions
Daily Round-Trips*

Month**	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hydrogen Facility Worker	5	6	17	26.4	48	68.8	92	124.8	108.8	94.4	80	71.2	62.4	28
Hydrogen Facility Truck***	46	64	63	60	5	3	2	2	2	2	2	2	2	1
Solar Facility Worker	68	84	108	428	368	368	368	336	336	336	336	336	25	20
Solar Facility truck	6	2	2	3	3	3	3	3	3	3	3	2	1	0

Notes	* Assumes 20% reduction from headcount for carpooling
	**Assumes conservative 14-month, concurrent construction schedule for both facilities
	*** Assumes deliveries of engineered fill for hydrogen facility over-excavation. Need for fill to be determined at time of final engineering design.

Appendix-E
Cumulative Developments Impact Memo

MEMORANDUM

TO: Janna Scott, Environmental Science Associates

FROM: Erik Ruehr, P.E., VRPA Technologies, Inc.
Nisha Pathak, VRPA Technologies, Inc.

DATE: May 3, 2023

RE: Heartland Hydrogen Cumulative Development Traffic Analysis

VRPA Technologies, Inc. (VRPA) has prepared a traffic analysis during peak construction activity of the cumulative projects and proposed Heartland Hydrogen Project. This memorandum provides detailed analysis on cumulative project traffic, calculations for signal warrant and results.

This analysis was conducted to analyze the worst-case scenario of construction traffic when the construction of cumulative projects overlaps with the construction period of Heartland Hydrogen Project. The analysis is studied for the following intersections in the vicinity of proposed Heartland Hydrogen Project:

- W. Adams Avenue and Derrick Avenue (SR 33)
- Manning Avenue and Derrick Avenue (SR 33)
- W. Adams Avenue and Project Access

CUMULATIVE PROJECT TRAFFIC

This analysis includes the addition of two proposed developments near the Heartland Hydrogen Development, a proposed Scarlet Solar Facility to be constructed on 4089 acres of land on the south and Sonarisa Solar Park to be constructed on west side(hereafter called “cumulative projects”). Exhibit 1 shows the location of the cumulative Projects with respect to the proposed Heartland Hydrogen Project. The trip generation for these two projects is based on previously approved traffic studies. Resulting Trips on the studied intersection are shown in Exhibit 2 and 3 Finally, the addition of the cumulative projects with Heartland Hydrogen trips in the construction year is shown in Exhibit 4.

INTERSECTION CAPACITY ANALYSIS

The impacts of the Project were analyzed considering Near term traffic conditions corresponding with the peak of construction activity. For the purposes of the traffic analysis, this was assumed to occur in 2024.

4630 W. Jennifer, Suite 105, Fresno, CA 93722 · Phone (559) 271-1200 · Fax (559) 271-1269
www.vrpatechnologies.com

The levels of traffic expected in 2024 relate to the cumulative effect of traffic increases resulting from the implementation of the General Plans of local agencies, including the Fresno County, were derived by applying an annual growth rate of 2% per year. The traffic generated by the cumulative and proposed project in construction phase was added to the 2024 counts to analyze the impacts in the study area which are further analyzed using synchro program.
Results shows that two of the three intersections operate beyond the target level of service, if all three projects have their peak construction activity at the same time. Results are shown in Exhibit 5.

Capacity analysis worksheets are included in the attachments.

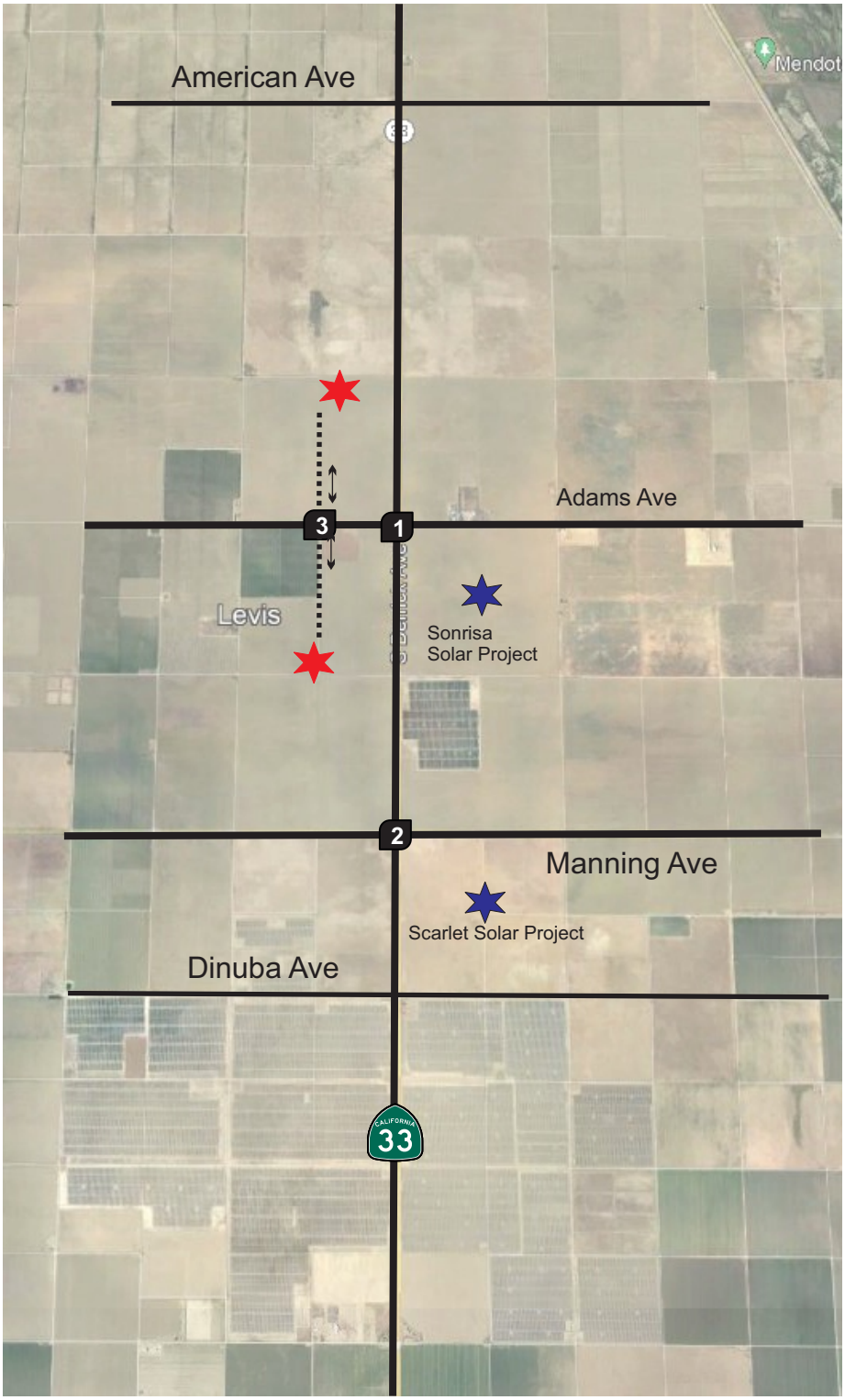
SIGNAL WARRANT ANALYSIS

Warrants for the installation of traffic signal control are established in Chapter 4C of the CA MUTCD. The information in Attachment B compares near term project impacts with the appropriate warrants. One of the study area intersections(SR 33 and Manning Ave) was warranted for the traffic signal warrant.

Please feel free to contact us if you have any questions.

Heartland Hydrogen Solar Project
Cumulative Developments Location

Exhibit 1



North

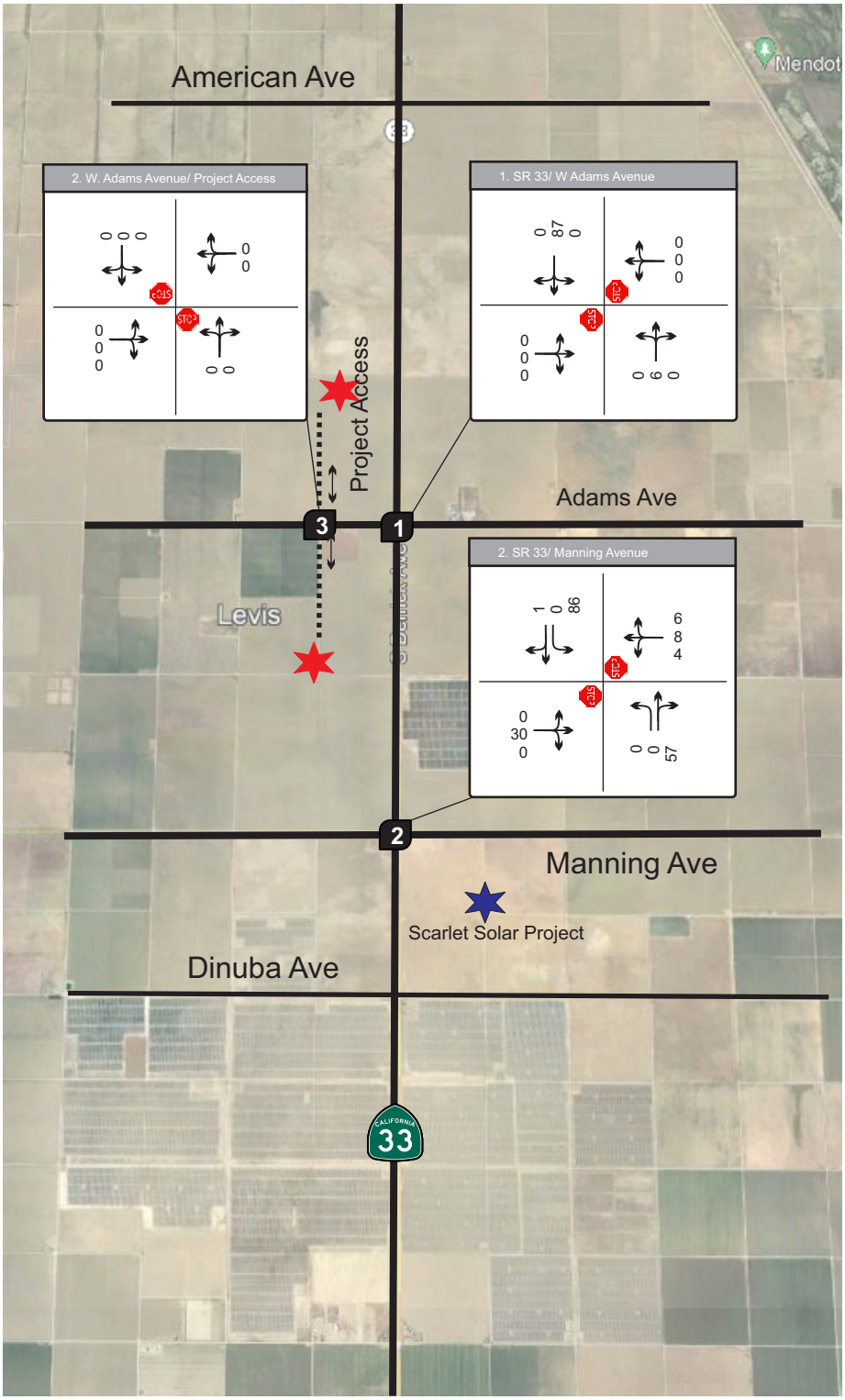
LEGEND

- Project Location
- Project Access
- # Study Area Intersection
- Cumulative Developments

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Near Term Projects(Scarlet Solar Project AM Peak Hour Traffic)

Exhibit 2-a



LEGEND

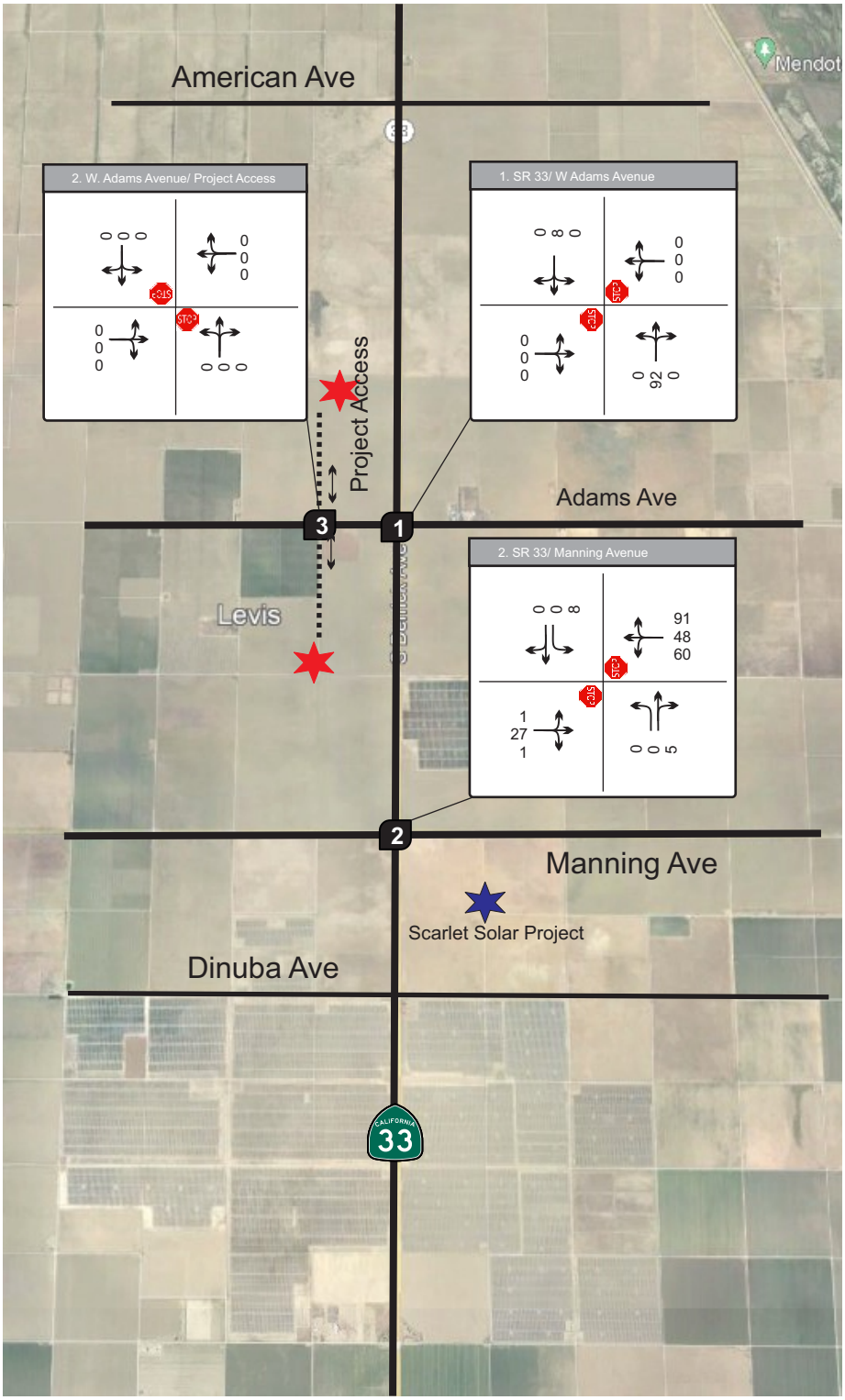
- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Near Term Projects(Scarlet Solar Project PM Peak Hour Traffic)

Exhibit 2-b



LEGEND

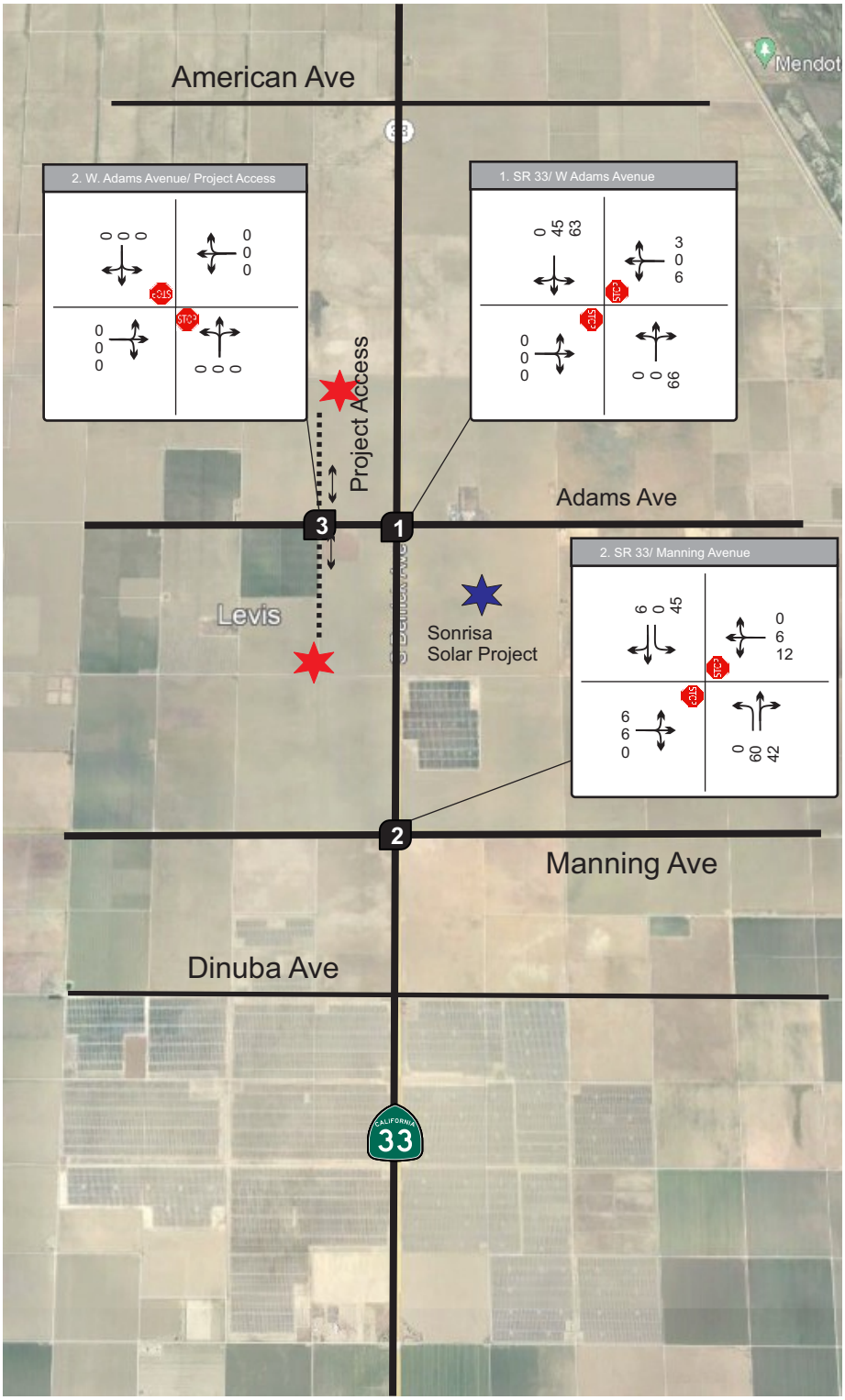
- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Near Term Projects(Sonrisa Solar Project AM Peak Hour Traffic)

Exhibit 3-a



LEGEND

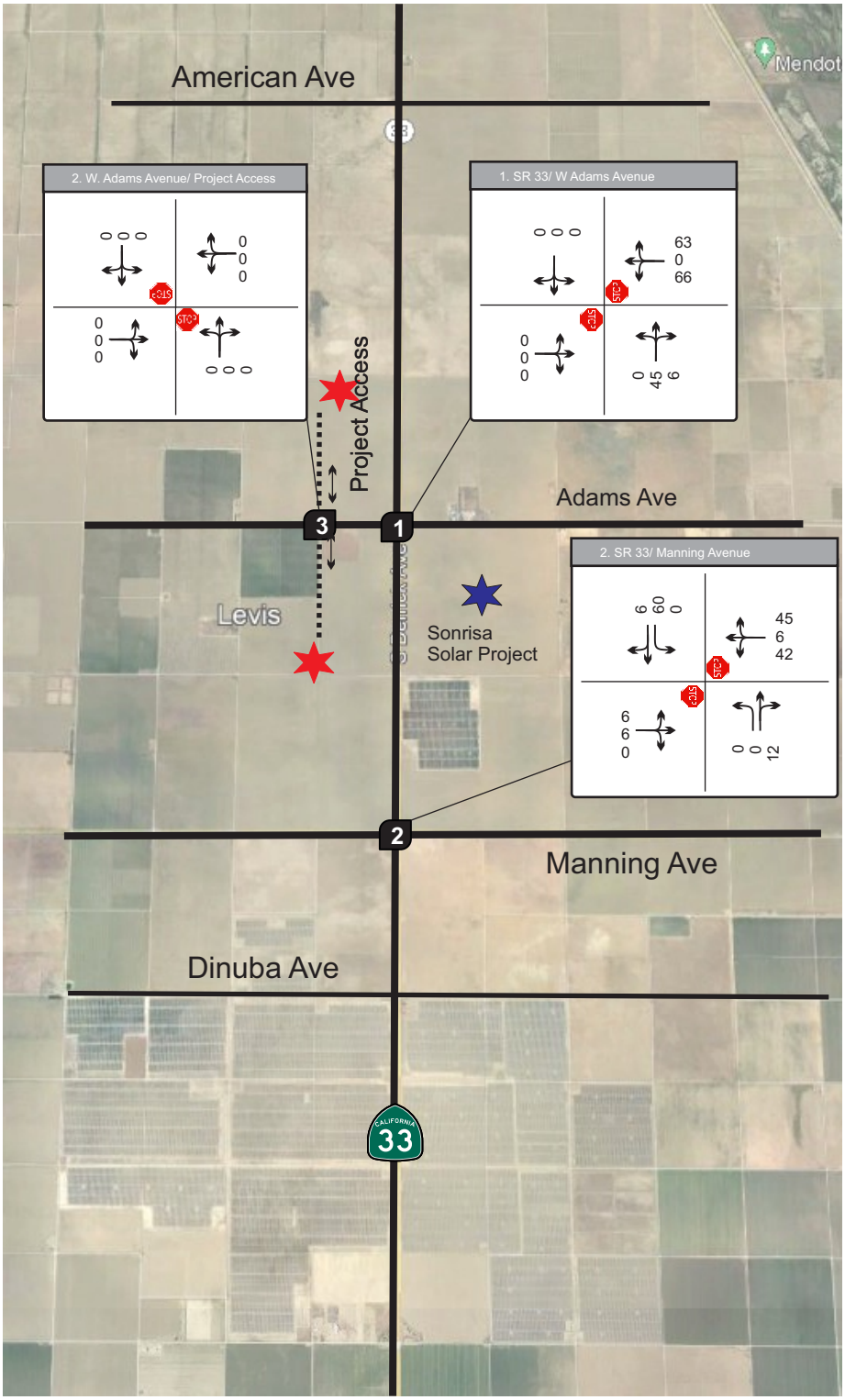
- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Near Term Projects(Sonrisa Solar Project PM Peak Hour Traffic)

Exhibit 3-b



LEGEND

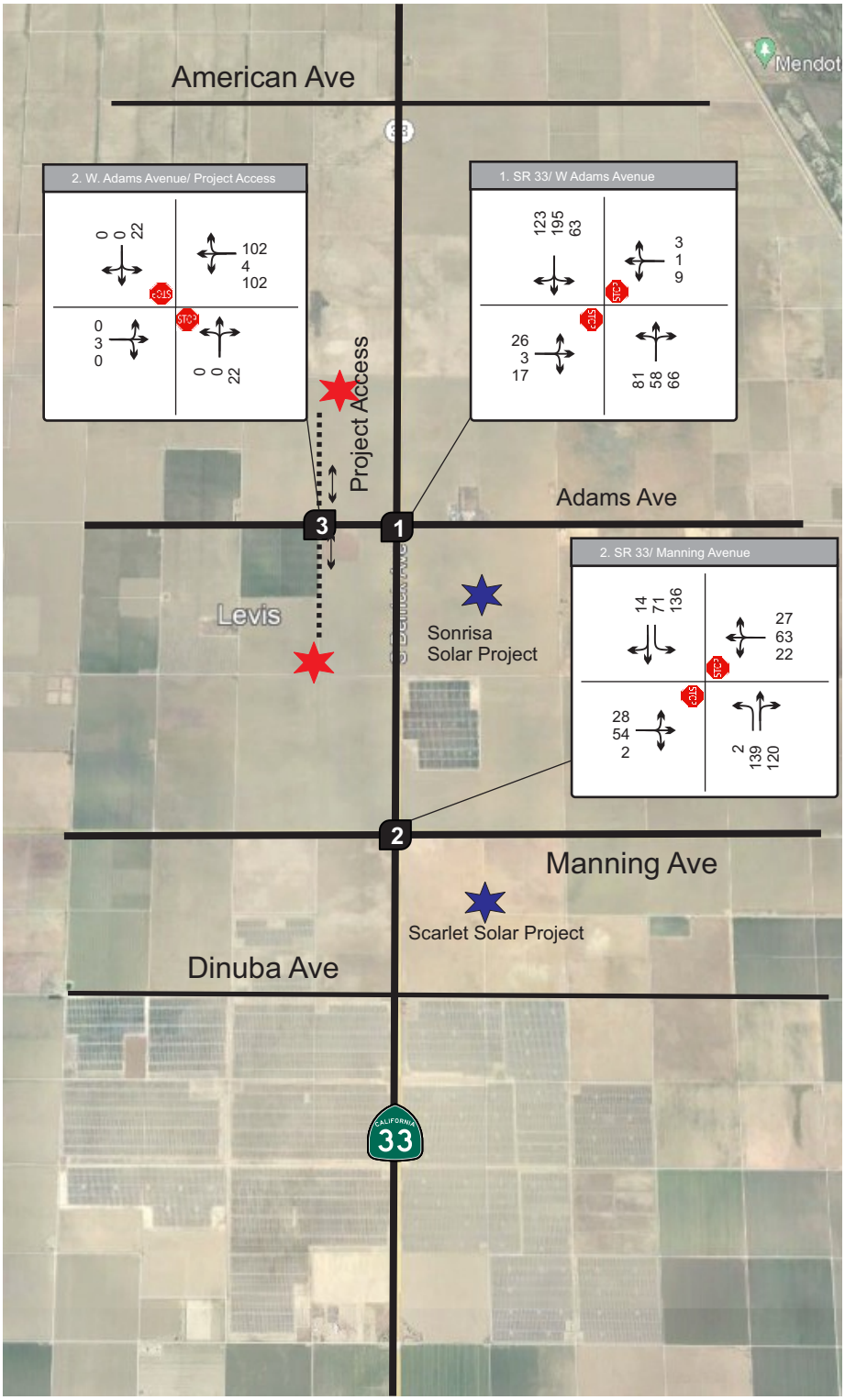
- Project Location
- # Study Area Intersection
- Project Access
- Lane Geometry

North

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Near Term Plus Project Construction AM Peak Hour Traffic

Figure 4-a



North

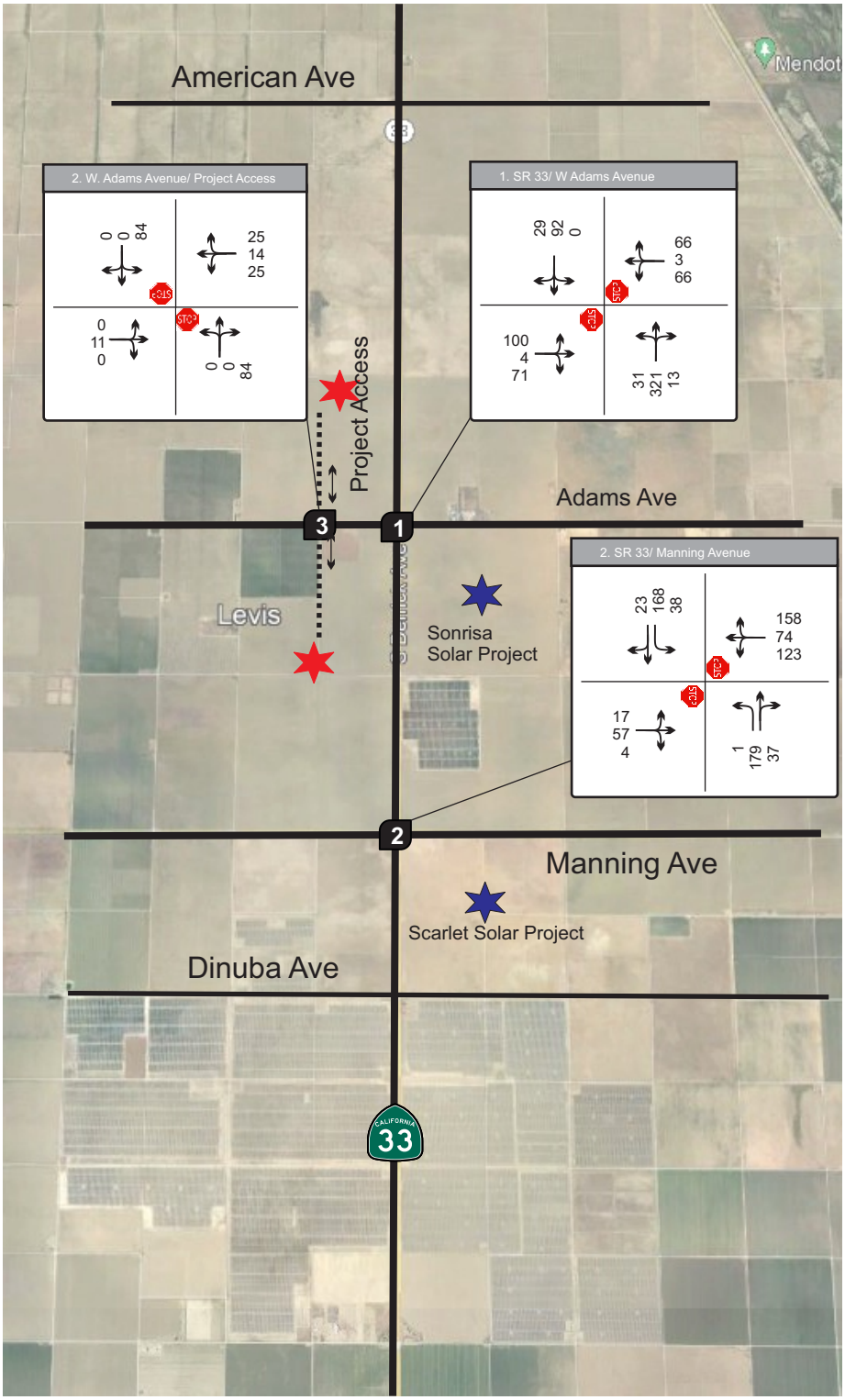
LEGEND

- Project Location
- Project Access
- # Study Area Intersection
- Lane Geometry
- Cumulative Developments

VRPA TECHNOLOGIES, INC.

Heartland Hydrogen Solar Project
Near Term Plus Project Construction PM Peak Hour Traffic

Figure 4-b



North

LEGEND

- Project Location
- Project Access
- # Study Area Intersection
- Lane Geometry
- Cumulative Developments

VRPA TECHNOLOGIES, INC.

Exhibit 5
Heartland Hydrogen Solar Project
Cumulative Developoment Plus Project Trips

INTERSECTION	CONTROL	TARGET LOS	PEAK HOUR	NEAR TERM PLUS PROJECT CONSTRUCTION TRAFFIC	
				DELAY	LOS
SR 33 and Adams Avenue	Two- Way Stop	D	AM	28.1	D
			PM	68.7	F
SR 33 and Manning Avenue	Two-Way Stop	D	AM	35.5	E
			PM	>100.00	F
Adams Avenue and Project Access	One-Way Stop	D	AM	8.5	A
			PM	9.1	A

DELAY is measured in seconds

LOS = Level of Service / **BOLD** denotes LOS standard has been exceeded

* No traffic were observed in cross street, so LOS A is assumed in such intersections

For stop controlled intersections, delay results show the delay for the worst movement

ATTACHMENTS

Synchro Reports

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	26	3	17	9	1	3	81	58	66	63	195	123
Future Vol, veh/h	26	3	17	9	1	3	81	58	66	63	195	123
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	75	75	75	41	41	41	50	50	50	70	70	70
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	35	4	23	22	2	7	162	116	132	90	279	176

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1058	1119	367	1067	1141	182	455	0	0	248	0	0
Stage 1	547	547	-	506	506	-	-	-	-	-	-	-
Stage 2	511	572	-	561	635	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	202	206	676	199	200	858	1100	-	-	1312	-	-
Stage 1	519	516	-	547	538	-	-	-	-	-	-	-
Stage 2	543	503	-	510	471	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	159	154	676	152	150	858	1100	-	-	1312	-	-
Mov Cap-2 Maneuver	159	154	-	152	150	-	-	-	-	-	-	-
Stage 1	429	467	-	452	444	-	-	-	-	-	-	-
Stage 2	442	415	-	443	427	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	27.4	28.1	3.5	1.3
HCM LOS	D	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1100	-	-	221	187	1312	-	-
HCM Lane V/C Ratio	0.147	-	-	0.278	0.17	0.069	-	-
HCM Control Delay (s)	8.8	0	-	27.4	28.1	7.9	0	-
HCM Lane LOS	A	A	-	D	D	A	A	-
HCM 95th %tile Q(veh)	0.5	-	-	1.1	0.6	0.2	-	-

Intersection	
Int Delay, s/veh	11

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	28	54	2	22	63	27	2	139	120	136	71	14
Future Vol, veh/h	28	54	2	22	63	27	2	139	120	136	71	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	300	-	-	325	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	70	70	70	75	75	75	78	78	78	71	71	71
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	40	77	3	29	84	36	3	178	154	192	100	20

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	815	832	110	795	765	255	120	0	0	332	0	0
Stage 1	494	494	-	261	261	-	-	-	-	-	-	-
Stage 2	321	338	-	534	504	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	295	304	941	304	332	781	1462	-	-	1222	-	-
Stage 1	555	545	-	742	690	-	-	-	-	-	-	-
Stage 2	689	639	-	528	539	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	191	256	941	206	279	781	1462	-	-	1222	-	-
Mov Cap-2 Maneuver	191	256	-	206	279	-	-	-	-	-	-	-
Stage 1	554	459	-	741	689	-	-	-	-	-	-	-
Stage 2	576	638	-	369	454	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	35.5	27.6	0.1	5.2
HCM LOS	E	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1462	-	-	234	305	1222	-	-
HCM Lane V/C Ratio	0.002	-	-	0.513	0.49	0.157	-	-
HCM Control Delay (s)	7.5	-	-	35.5	27.6	8.5	-	-
HCM Lane LOS	A	-	-	E	D	A	-	-
HCM 95th %tile Q(veh)	0	-	-	2.7	2.5	0.6	-	-

Intersection	
Int Delay, s/veh	4.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	3	0	102	4	102	0	0	22	22	0	0
Future Vol, veh/h	0	3	0	102	4	102	0	0	22	22	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	0	3	0	111	4	111	0	0	24	24	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	115	0	0	3	0	0	285	340	3	297	285	60
Stage 1	-	-	-	-	-	-	3	3	-	282	282	-
Stage 2	-	-	-	-	-	-	282	337	-	15	3	-
Critical Hdwy	4.13	-	-	4.13	-	-	7.13	6.53	6.23	7.13	6.53	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-	6.13	5.53	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.13	5.53	-	6.13	5.53	-
Follow-up Hdwy	2.227	-	-	2.227	-	-	3.527	4.027	3.327	3.527	4.027	3.327
Pot Cap-1 Maneuver	1468	-	-	1612	-	-	665	580	1078	653	623	1003
Stage 1	-	-	-	-	-	-	1017	891	-	723	676	-
Stage 2	-	-	-	-	-	-	723	639	-	1002	891	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1468	-	-	1612	-	-	627	537	1078	602	576	1003
Mov Cap-2 Maneuver	-	-	-	-	-	-	627	537	-	602	576	-
Stage 1	-	-	-	-	-	-	1017	891	-	723	625	-
Stage 2	-	-	-	-	-	-	669	591	-	980	891	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	3.6	8.4	11.2
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1078	1468	-	-	1612	-	-	602
HCM Lane V/C Ratio	0.022	-	-	-	0.069	-	-	0.04
HCM Control Delay (s)	8.4	0	-	-	7.4	0	-	11.2
HCM Lane LOS	A	A	-	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0.2	-	-	0.1

Intersection	
Int Delay, s/veh	26.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	100	4	71	66	3	66	31	321	13	0	92	29
Future Vol, veh/h	100	4	71	66	3	66	31	321	13	0	92	29
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	50	50	50	81	81	81	64	64	64
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	200	8	142	132	6	132	38	396	16	0	144	45

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	716	655	167	722	669	404	189	0	0	412	0	0
Stage 1	167	167	-	480	480	-	-	-	-	-	-	-
Stage 2	549	488	-	242	189	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	344	384	875	341	377	644	1379	-	-	1142	-	-
Stage 1	833	758	-	565	553	-	-	-	-	-	-	-
Stage 2	518	548	-	759	742	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	262	370	875	273	363	644	1379	-	-	1142	-	-
Mov Cap-2 Maneuver	262	370	-	273	363	-	-	-	-	-	-	-
Stage 1	803	758	-	545	533	-	-	-	-	-	-	-
Stage 2	393	528	-	629	742	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	68.7	34	0.7	0
HCM LOS	F	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1379	-	-	369	383	1142	-	-
HCM Lane V/C Ratio	0.028	-	-	0.949	0.705	-	-	-
HCM Control Delay (s)	7.7	0	-	68.7	34	0	-	-
HCM Lane LOS	A	A	-	F	D	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	10.3	5.2	0	-	-

Intersection	
Int Delay, s/veh	145.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	57	4	123	74	158	1	179	37	38	168	23
Future Vol, veh/h	17	57	4	123	74	158	1	179	37	38	168	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	300	-	-	325	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	60	60	60	48	48	48	81	81	81	91	91	91
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	28	95	7	256	154	329	1	221	46	42	185	25

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	770	551	198	579	540	244	210	0	0	267	0	0
Stage 1	282	282	-	246	246	-	-	-	-	-	-	-
Stage 2	488	269	-	333	294	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	7.13	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	3.527	4.027	3.327	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	316	441	841	425	447	792	1355	-	-	1291	-	-
Stage 1	723	676	-	756	701	-	-	-	-	-	-	-
Stage 2	559	685	-	679	668	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	130	426	841	341	432	792	1355	-	-	1291	-	-
Mov Cap-2 Maneuver	130	426	-	341	432	-	-	-	-	-	-	-
Stage 1	722	654	-	755	700	-	-	-	-	-	-	-
Stage 2	255	684	-	557	646	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	27.1	268.5	0	1.3
HCM LOS	D	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1355	-	-	290	485	1291	-	-
HCM Lane V/C Ratio	0.001	-	-	0.448	1.525	0.032	-	-
HCM Control Delay (s)	7.7	-	-	27.1	268.5	7.9	-	-
HCM Lane LOS	A	-	-	D	F	A	-	-
HCM 95th %tile Q(veh)	0	-	-	2.2	38.9	0.1	-	-

Intersection	
Int Delay, s/veh	7.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	11	0	25	14	25	0	0	84	84	0	0
Future Vol, veh/h	0	11	0	25	14	25	0	0	84	84	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	0	12	0	27	15	27	0	0	91	91	0	0

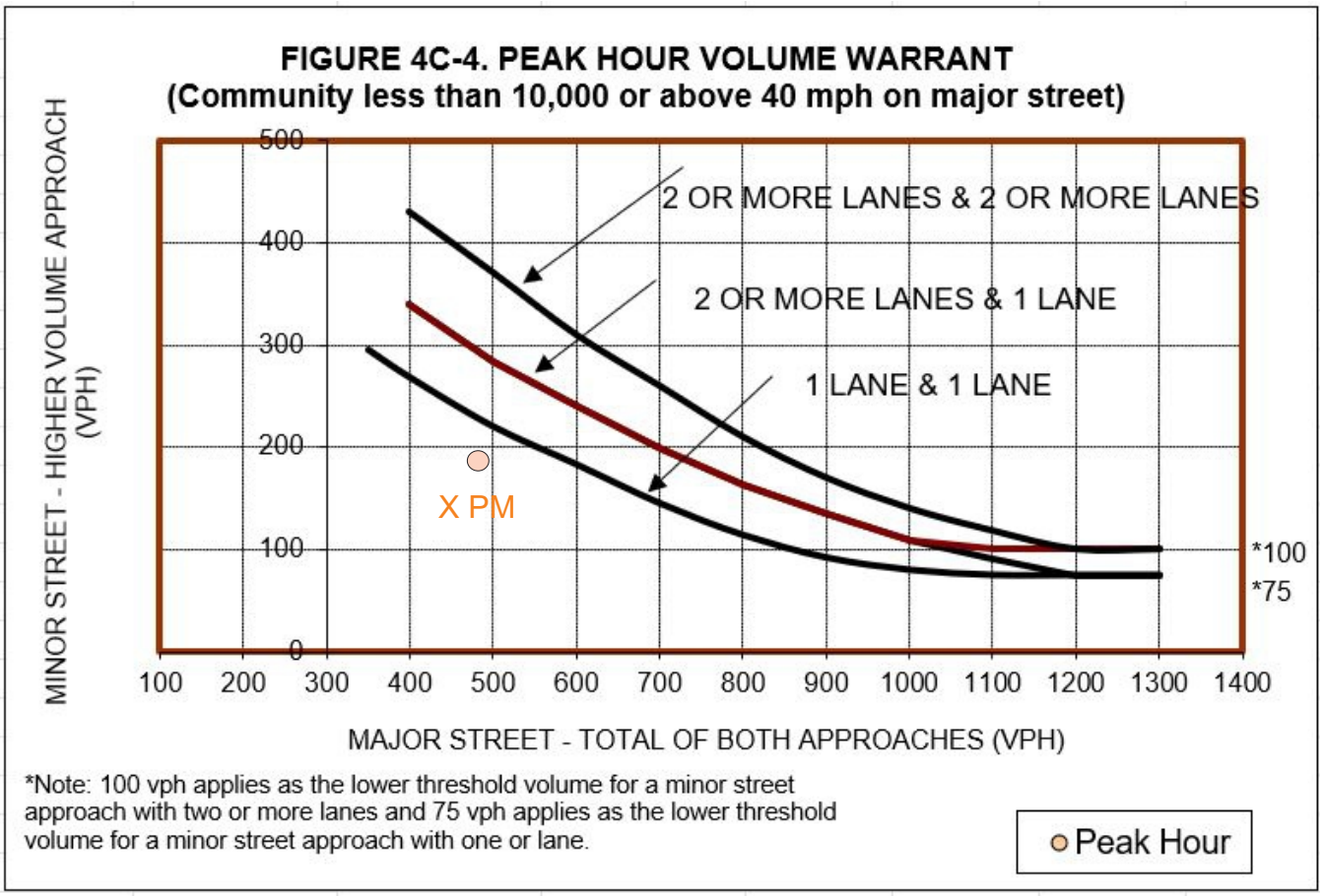
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	42	0	0	12	0	0	95	108	12	141	95	29
Stage 1	-	-	-	-	-	-	12	12	-	83	83	-
Stage 2	-	-	-	-	-	-	83	96	-	58	12	-
Critical Hdwy	4.13	-	-	4.13	-	-	7.13	6.53	6.23	7.13	6.53	6.23
Critical Hdwy Stg 1	-	-	-	-	-	-	6.13	5.53	-	6.13	5.53	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.13	5.53	-	6.13	5.53	-
Follow-up Hdwy	2.227	-	-	2.227	-	-	3.527	4.027	3.327	3.527	4.027	3.327
Pot Cap-1 Maneuver	1561	-	-	1600	-	-	886	780	1066	827	793	1043
Stage 1	-	-	-	-	-	-	1006	884	-	923	824	-
Stage 2	-	-	-	-	-	-	923	814	-	951	884	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1561	-	-	1600	-	-	874	767	1066	746	780	1043
Mov Cap-2 Maneuver	-	-	-	-	-	-	874	767	-	746	780	-
Stage 1	-	-	-	-	-	-	1006	884	-	923	810	-
Stage 2	-	-	-	-	-	-	907	800	-	870	884	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	2.8	8.7	10.5
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	1066	1561	-	-	1600	-	-	746
HCM Lane V/C Ratio	0.086	-	-	-	0.017	-	-	0.122
HCM Control Delay (s)	8.7	0	-	-	7.3	0	-	10.5
HCM Lane LOS	A	A	-	-	A	A	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0.1	-	-	0.4

Signal Warrants

SR 33 and Adams Ave



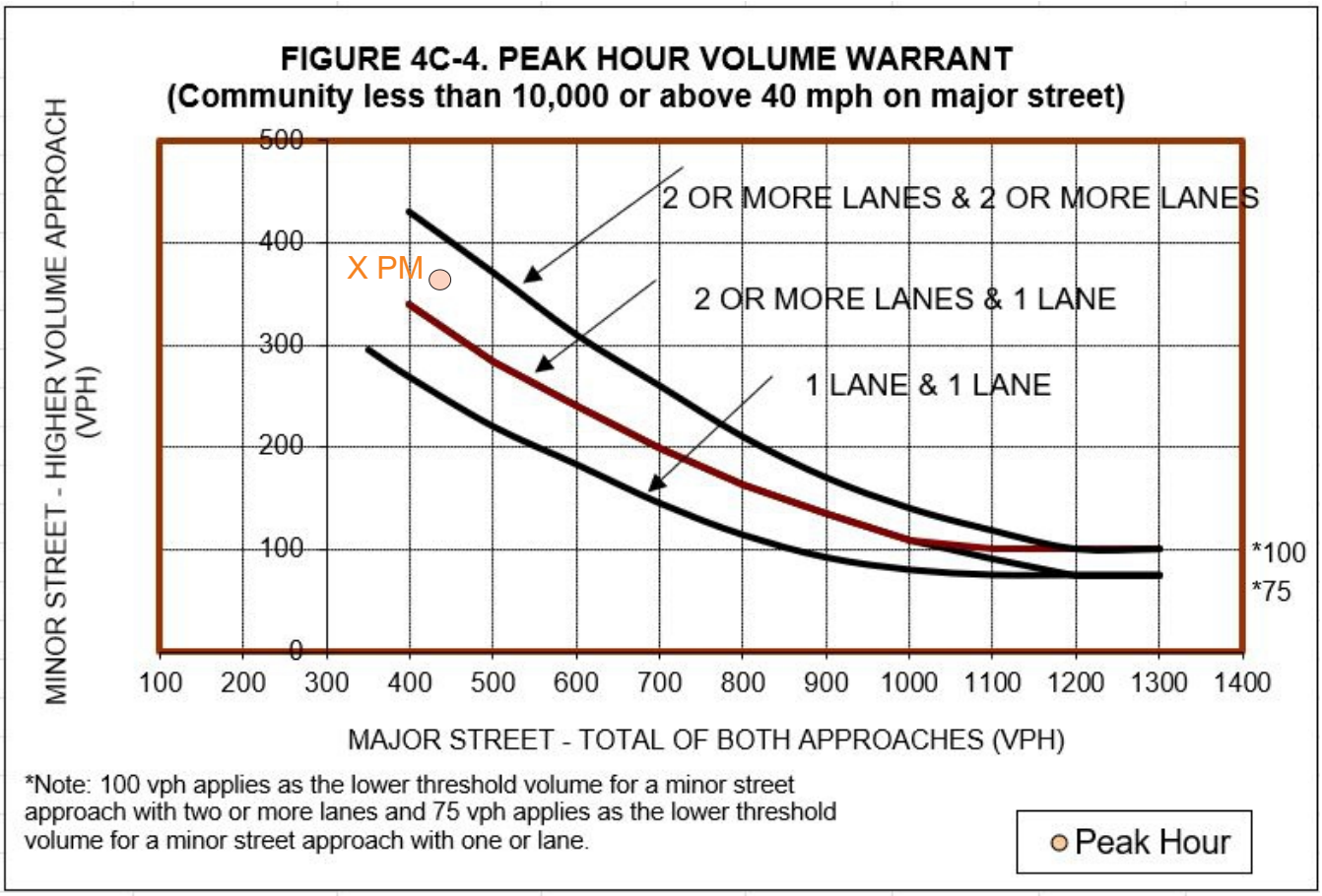
Peak Construction Cumulative Project Conditions

PM Peak Hour Warrant Status: Not Met

LEGEND	
XAM AM Peak Hour	XPM PM Peak Hour
○ Peak Hour	

VRPA TECHNOLOGIES, INC.

SR 33 and Manning Avenue



Peak Construction Cumulative Project Conditions

PM Peak Hour Warrant Status: Met

LEGEND			
XAM	AM Peak Hour	XPM	PM Peak Hour
○	Peak Hour		

Appendix L
Water Supply Assessment

Water Supply Assessment

Heartland Solar Project
Fresno County, California

April 2025

Prepared for

Clearway Energy Group, LLC
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Prepared by

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Appendix A. Will Serve Letter

Acronyms and Abbreviations

AF	acre-feet
AFY	acre-feet per year
Applicant	Heartland Solar I, LLC
CEQA	California Environmental Quality Act
CIMIS	California Irrigation Management Information System
CVP	Central Valley Project
DWR	California Department of Water Resources
GSA	groundwater sustainability agency
GSP	Groundwater Sustainability Plan
Project	Heartland Solar Project and PG&E Components
PG&E	Pacific Gas and Electric
PV	photovoltaic
SB	Senate Bill
SGMA	Sustainable Groundwater Management Act
SR 33	State Route 33
SWP	State Water Project
Tetra Tech	Tetra Tech, Inc.
USBR	U.S. Bureau of Reclamation
UWMP	Urban Water Management Plan
WSA	water supply assessment
WWD	Westlands Water District

1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech), was retained by Heartland Solar 1, LLC (Applicant), a wholly-owned indirect subsidiary of Clearway Energy Group, LLC, to conduct a water supply assessment (WSA) for the proposed Heartland Solar Project. This WSA presents the methodology, results, and recommendations in accordance with Senate Bill (SB) 610 and SB 221, adopted in 2001, amending the California Water Code to require that certain types of development projects prepare a WSA. The detailed discussion of water supply availability and reliability given in this report is intended to provide local decisionmakers with key water supply information prior to Project review and approval. A WSA must provide (1) a description of the source(s) of water supply that will be used to meet the water demands of the proposed project over a 20-year planning horizon, and (2) an assessment of how changing climatic conditions, particularly long-range drought potential, could affect the area if a project is implemented (DWR 2003).

This WSA has been prepared as required under the California Water Code, amended by SB 610, to provide an examination of the availability of water supply source(s) to meet the expected water demands of the Project. This review considers conditions under multiple scenarios: (a) a normal year (the “no drought” scenario), (b) a single-dry-year (the “limited drought” scenario), and (c) multiple dry-years (the “extended drought” scenario), over a 20-year planning horizon. The WSA accounts for not only the Project’s water demand, but also all other existing and planned future uses of the water supply, to the extent information is available.

2.0 PROJECT DESCRIPTION AND LOCATION

The Applicant proposes to construct, operate, and maintain the Project, which consists of renewable photovoltaic (PV) solar energy generation and energy storage facilities. Proposed facilities would generate approximately 300 megawatts alternating current of solar PV energy and have capacity to store up to 300 megawatts of energy on approximately 2,362 acres of private land in western Fresno County. These facilities would interconnect to the regional electrical grid via an electrical generation-tie line between the solar facility and the existing Tranquillity Switching Station, which is located approximately 1.25 miles south of the solar and energy storage facility site. The Tranquillity Switching Station is owned and operated by the Pacific Gas and Electric Company (PG&E), which is subject to the jurisdiction and oversight of the California Public Utilities Commission. PG&E also would conduct other necessary infrastructure work to support interconnection of the Project. Infrastructure and other improvements to be constructed, operated, and maintained by PG&E to support the Project are referred to as the PG&E Components. The Heartland Solar Project and the PG&E Components collectively are referred to in this document as the Project. Distinctions between the Heartland Solar Project and the PG&E Components are made as needed for clarity.

The proposed Project site is located approximately 6 miles southwest of the City of Mendota, 10 miles east of Interstate 5, east of S. San Bernardino and Los Angeles Avenues, south of W. American Avenue, west of State Route 33 (SR 33, also called S. Derrick Avenue), 0.5 mile north of W. Manning Avenue, and 1.25 miles north of the PG&E’s Tranquillity Switching Station. The Project site is located across SR 33 from the existing Adams East solar facility and immediately north of the approved Luna Valley solar facility. The Tranquillity Switching Station is located near the northeast corner of the intersection of

W. Dinuba Avenue and S. Ohio Avenue, within the boundaries of the Tranquillity Solar Generating Facility.

During construction of the proposed Project, water will be needed for normal construction-related uses, including (but not necessarily limited to) dust suppression, soil compaction, and grading. Dust-control water may be used for ingress and egress of on-site construction vehicle equipment traffic and other construction purposes. A sanitary water supply would not be required during construction, because restroom facilities would be provided by portable units to be serviced by licensed providers.

The overall construction water usage during the construction period is expected to be approximately 400 acre-feet (AF) over an expected 40-month duration. The proposed sources of water used during construction would be groundwater from Westlands Water District (WWD), utilizing existing WWD supply infrastructure. Additional sources of potential supply would be from local water brokers who could facilitate the sale of supplemental surface water, delivered by WWD Municipal and industrial infrastructure. Water demand during construction is expected to be the same if the Project is constructed during a year with normal precipitation, a year with less-than-average precipitation, or a multiyear period of less-than-average precipitation.

During Project operations and maintenance, it is anticipated that water would be used for solar panel washing, equipment washing, and other miscellaneous water uses needed for operations. An O&M building and other associated facilities such as above ground water storage tanks will be constructed onsite, including permanent restroom facilities with septic tanks and/or portable toilets that would be used for sanitary purposes. Groundwater or surface water provided by WWD would be the supply source for O&M activities and facilities. Drinking water would be provided by commercial water services.

Panel washing would require approximately 15 to 30 days to complete per wash cycle. Water consumption is expected to be approximately 0.28 gallon per square yard of panel, based on other similar operations. Although PV panel washing is expected to occur once per year, it is possible the panels will need washing more frequently (up to twice a year) based on site conditions. Assuming one or two solar panel wash cycles per year plus typical operations and maintenance activities, the annual water usage is expected to be approximately 5 AF of water. This amount includes the water necessary for Project operations, fire suppression, and site maintenance. If panel washing is not needed, then water use for routine solar facility O&M activities would be approximately 1 acre-foot per year (AFY).

3.0 ENVIRONMENTAL AND REGULATORY SETTING

3.1 Environmental Setting and Land Use

The Project site is located in an agricultural area in northern Fresno County. The Heartland Solar Project site is within the AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) Zone District. Irrigated agriculture historically occurred here; however, due to a combination of factors including lack of drainage, salt accumulation in the soil, and a legal covenant that precludes irrigation for many of the parcels, the sites no longer support irrigated agricultural land uses. In the past 10 years, the Heartland Solar Project site has been intermittently dry farmed for grain or forage crops or has lain fallow. Abandoned irrigation and drainage features are present throughout the site but are not in use.

No existing lighting is present on the site. WWD cultivates the site to control weeds and pests. Unimproved farm roads exist on the site and between the parcels that would be developed as part of the Project. The only improved (paved) roads bordering the Heartland Solar Project site boundary are W. Adams Avenue and SR 33.

Surrounding land uses consist of existing agricultural uses, including non-irrigated fields owned mostly by the WWD. These properties generally have a land use pattern of dry farming, grazing, and fallowing rotation that is similar to that of the Project site. Neighboring agricultural uses include orchards and forage and grain crops. Multiple solar facilities are operating or under development in the surrounding area, including the Tranquillity, Adams East, Luna Valley, Scarlet, and Sonrisa solar projects. The nearest residence to the Heartland Solar Project site is located at W. Adams and S. Ohio Avenue, approximately 80 feet from the Project site boundary. The nearest communities include the community of Tranquillity (approximately 8 miles to the east-northeast of the Project site), City of Mendota (approximately 6 miles to the north), and City of San Joaquin (approximately 11 miles to the east).

3.2 Climate

The Project site is located on the western edge of the San Joaquin Valley, where it transitions to the Coastal Ranges geomorphic province. Thus, it is east of the coast ranges, where east-side drainage from the mountains would drain generally toward the west and into the San Joaquin Valley. The Project site falls within the six-digit hydrologic unit identified as the Tulare-Buena Vista Lakes basin (HU6 #180300), an interior drained portion of the Great Valley Geomorphic Province (CGS 2002). The Project area contains no perennial water courses and no defined channels due to the predominance of agricultural fields and low rainfall amounts.

Rainfall is relatively rare in this part of California, which has a Mediterranean climate with wet winters and dry summers. Precipitation occurs primarily from October to March, with very little from April through September. Rainfall records were obtained for five California Irrigation Management Information System weather stations located within Fresno County (Table 1). Note that the average annual rainfall value for these weather stations is less than 12 inches per year, qualifying this area as arid.

These stations have relatively long records (mostly over 30 to 40 years), but the period of overlap is only 28 years (1997 through 2024). If only the records for the overlapping years are considered for these stations, it presents a more current and drier picture. The average annual rainfall over the shorter period for these stations (except #7 Firebaugh) is 3 to 10 percent lower.

The single driest year for the Westside Subbasin during the period from 1997 through 2024 was in 2013, when annual rainfall (averaged between the five stations) was 2.95 inches. The driest period for three consecutive years was from 2013 through 2015, when the annual rainfall total (again, averaged among the five stations) went from 2.95 inches (2013), to 6.90 inches (2014), and finally to 5.65 inches (CIMIS 2025). Exhibit 1 gives a graphical presentation of the annual rainfall totals for the five stations since 1997. The locations of the five stations, relative to the Project site, are shown on Figure 3.

Table 1. Precipitation Records

CIMIS Station	Location	Period of Record	Annual Rainfall Total (inches)		
			Low	Average	High
# 2 Five Points	Fresno County Latitude: 36.336222; Longitude: -120.11291	June 1982–March 2025 (42 years)	1.52	8.48	27.22
# 7 Firebaugh/ Telles	Fresno County Latitude: 36.851222 Longitude: -120.59092	September 1982–March 2025 (only 28 years appear consistent and valid, 1997–2024)	3.59	7.42	13.02
# 39 Parlier	Fresno County Latitude: 36.597444; Longitude: -119.50404	May 1983–March 2025 (41 years)	3.21	10.63	18.63
# 80 Fresno State	Fresno County Latitude: 36.820833; Longitude: -119.74231	October 1988–March 2025 (36 years)	2.87	11.46	19.21
# 105 Westlands	Fresno County Latitude: 36.634028; Longitude: -120.38181	April 1992–March 2025 (32 years)	2.51	6.48	17.45

CIMIS – California Irrigation Management Information System

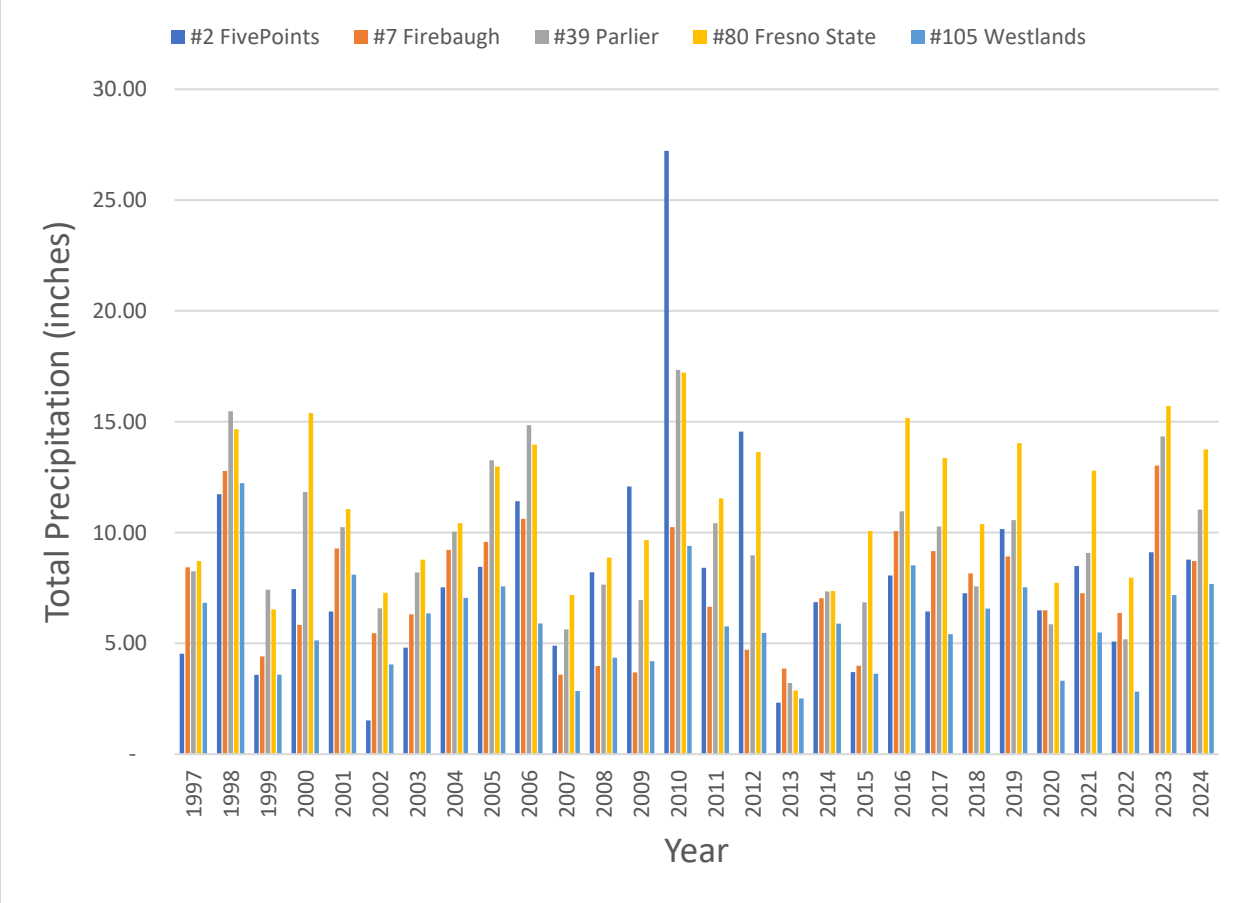

Exhibit 1. Total Annual Precipitation

3.3 WSA Applicability

California Water Code Section 10910(a) requires that a WSA be prepared for a "project" as defined in Section 10912. According to California Water Code Section 10912(a)(5), the term "project" applies whenever a proposed industrial facility, manufacturing or processing plant, or an industrial park is planned that will include any of the following:

- House more than 1,000 persons,
- Occupy more than 40 acres of land, or
- Include more than 650,000 square feet of floor area.

Because the Project site is approximately 2,362 acres, it is classified as a "project" by California Water Code Section 10912. In addition, the California Water Code (Section 10910[a]) only requires that a WSA be prepared for "projects" (as defined above) if one of the following is expected to be prepared for California Environmental Quality Act (CEQA) compliance:

- An environmental impact report,
- Negative declaration, or
- Mitigated negative declaration.

The County of Fresno Department of Public Works and Planning—the CEQA Lead Agency—is preparing an Environmental Impact Report (EIR) for the Project. Thus, a WSA is required because it is both defined as a "project" and will be reviewed in an EIR.

3.4 Public Water Supply

Pursuant to California Water Code Section 10910(b), Fresno County must:

> *…[i]dentify any water system whose service area includes the project site and any water system adjacent to the project site that is, or may become as a result of supplying water to the project identified pursuant to this subdivision [project], a public water system, as defined in Section 10912, that may supply water for the project.*

The proposed Project is located within the jurisdiction of the WWD, which provides agricultural water to users within the jurisdiction, and does not deliver treated water for human consumption and is not considered a public water system. The Project site is not connected to a public water system and there are no public water systems that can serve the proposed Project. Where that is the case, the County is required to prepare the WSA under California Water Code Section 10910(b).

3.5 Urban Water Management Plan

Pursuant to California Water Code Section 10910(c), Fresno County must:

> *…request each public water system … to determine whether the projected water demand associated with a proposed project was included as part of the most recently adopted urban water management plan.*

The California Water Code states that any public water system providing water for municipal purposes to more than 3,000 customers, or supplying more than 3,000 AF annually, must prepare an Urban Water Management Plan (UWMP). Under Water Code Section 10631, UWMPs must be updated every 5 years on or before July 1 in years ending in 1 or 6. The Project is proposed on WWD-owned lands outside the Mendota city limits on private land in northwestern Fresno County.

The City delivers less than 500 AFY of water. Aa result, the City is not required to prepare a UWMP, and thus, there is not a current UWMP that accounts for the Project's water demand. Because a UWMP is not available as a source document, this WSA uses the Luhdorff & Scalmanini Groundwater Sustainability Plan (GSP), which provides information regarding the City's water demand, water supply, and overall water reliability (Luhdorff & Scalmanini 2022). The Luhdorff & Scalmanini GSP also includes information about water resources planning, regional water supplies, the service area, and potential water demands that would be generated by proposed land use changes associated with the Project.

4.0 SUPPLY AND DEMAND ANALYSIS

4.1 Methodology for Water Resources Evaluation

This section provides a summary of the availability of surface water and groundwater resources in the region as a baseline. Local water suppliers are then identified and their capacity to provide water for the Project is summarized.

4.2 Regional Water Resources

The WWD covers a very large part of the San Joaquin Valley and almost the entire Westside Subbasin (WWD 2025). In addition to the WWD, the City of Mendota (a municipal supplier) and the Panoche Water District are other nearby water purveyors (Figure 5). In addition, there is at least one independent broker nearby (the Water Agency Inc.) that facilitates farm water transactions in the San Joaquin Valley. Table 2 lists providers and brokers with service areas near the Project site. Brief descriptions of the pertinent agencies are given below. Section 4.3 summarizes water resource availability in the Project area.

Table 2. Water Providers and Brokers in the Vicinity of the Project Site

Water Purveyor	Jurisdiction	Role
Westlands Water District	Covers nearly all of the 1,000 square-mile Westside Subbasin (5-22.09).	Westlands receives and distributes water from the Central Valley Project, which is operated by the U.S. Bureau of Reclamation.
City of Mendota	City of Mendota	The City provides a public water supply for its residents. The City's water system consists of three primary production wells (Nos. 7, 8, and 9), two emergency backup wells (Nos. 3 and 5), transmission mains, and a water treatment plant to pump and then treat water from the Delta-Mendota Subbasin.
Water Agency Inc. (an Independent broker such as	San Joaquin Valley	Facilitates farm water transactions in California's Central Valley.
Panoche Water District (PWD)	Western side of the San Joaquin Valley in both Merced and Fresno Counties.	The PWD is a California Water District serving 38,000 acres with water for agricultural uses.

4.2.1 Westlands Water District

The WWD resulted from a petition to Fresno County for the formation of a water district to help bring surface water resources to the WWD service area for irrigation use. It signed a long-term water supply contract with the U.S. Bureau of Reclamation (USBR), which was expanded after the WWD merged with the Westplains Water Storage District. Several trunk lines were constructed and a distribution network was added over time. Use of private wells to pump groundwater continues to be a significant source of irrigation water supply even today, especially during drought periods. With the passing of the Sustainable Groundwater Management Act (SGMA) in 2014, WWD and Fresno County were tasked with developing a GSP for the Westside Subbasin. An initial GSP (Luhdorff & Scalmanini 2020) was submitted to the California Department of Water Resources (DWR) for review and was not approved. A revised GSP (Luhdorff & Scalmanini 2022) was resubmitted to the DWR, and an approval notification letter from the DWR was sent in March 2023. The official determination letter was sent in August 2023 with an appended Statement of Findings and Staff Report (DWR 2023). The revised GSP and associated rules and regulations (WWD-GSA 2023) will govern the use of groundwater from the wells expected to be used for this Project (see Section 4.3).

The WWD utilizes a combination of imported surface water and local groundwater to serve its customers. The majority of WWD's customers are agricultural customers who occupy 568,000 irrigable acres out of the WWD's 614,000 total acres (Luhdorff & Scalmanini 2022).

Surface water supplies are imported from the Sacramento Delta by the Central Valley Project (CVP) via the Delta-Mendota Canal and the San Luis Canal. The amount of water received from the CVP will vary in any given year depending on the amount of precipitation received in northern California. WWD has long-term contractual and legal entitlements with the USBR for a firm supply of 1,191,185 AF of CVP water during each water year (Luhdorff & Scalmanini 2022). However, the full amount is usually not delivered, depending on the available supply. Over the past 10 years, the WWD received a 100 percent allocation only twice, while in 7 of the 10 years it was at 50 percent or less, and in 3 of those years allocations were zero percent (see Table 3). WWD supplements the remainder of its water needs through pumping of local groundwater.

WWD does not operate or manage its own local water supplies. Instead, it relies on conjunctive use of landowners to pump groundwater wells and divert surface waters. WWD has a Distribution System Integration Program that allows landowners to use the WWD's water distribution system to convey groundwater to other points of use within the WWD jurisdiction. This conjunctive use of surface and groundwater improves overall water supply reliability by making more efficient use of water that is available. In wet periods, use of surface water is encouraged to preserve groundwater supplies. In droughts, greater flexibility in the use of groundwater is facilitated to extract the maximum benefit from its resources (Luhdorff & Scalmanini 2022).

As previously noted, WWD has entitlement from CVP to a firm supply of 1,191,185 AF of CVP water during each water year. Depending on drought conditions and water supply availability in the Bay Delta, this total amount may not be delivered. In some years, WWD may acquire additional water pursuant to its entitlements, or other water from other sources. Table 3 summarizes WWD's water supply history from 1988 to 2024. As can be observed by comparing annual groundwater versus net CVP supply, the amount of

groundwater pumped from the local aquifer (the Westside Subbasin) is inversely proportional to the imported surface water received via the CVP.

Table 3. Westlands Water District – Water Supply History

Water Year	CVP Allocation %	Net CVP (AF)	Groundwater (AF)	Water User Acquired (AF)	Additional WWD Supply (AF)	Total Supply (AF)	Fallowed Acres
1988	100%	1,150,000	160,000	7,657	97,712	1,415,369	45,632
1989	100%	1,035,369	175,000	20,530	99,549	1,330,448	64,579
1990	50%	625,196	300,000	18,502	-2,223	941,475	52,544
1991	27%	229,666	600,000	22,943	77,399	930,008	125,082
1992	27%	208,668	600,000	42,623	100,861	952,152	112,718
1993	54%	682,833	225,000	152,520	82,511	1,142,864	90,413
1994	43%	458,281	325,000	56,541	108,083	947,905	75,732
1995	100%	1,021,719	150,000	57,840	121,747	1,351,306	43,528
1996	95%	994,935	50,000	92,953	172,609	1,310,497	26,754
1997	90%	968,408	30,000	94,908	261,085	1,354,401	35,554
1998	100%	945,115	15,000	54,205	162,684	1,177,004	33,481
1999	70%	806,040	60,000	178,632	111,144	1,155,816	37,206
2000	65%	695,693	225,000	198,294	133,314	1,252,301	46,748
2001	49%	611,267	215,000	75,592	135,039	1,036,898	73,802
2002	70%	776,526	205,000	106,043	64,040	1,151,609	94,557
2003	75%	863,150	160,000	107,958	32,518	1,163,626	76,654
2004	70%	800,704	210,000	96,872	44,407	1,151,983	70,367
2005	85%	996,147	75,000	20,776	98,347	1,190,270	66,804
2006	100%	1,076,461	25,000	45,936	38,079	1,185,476	54,944
2007	50%	647,864	310,000	87,554	61,466	1,106,884	96,409
2008	40%	347,222	460,000	85,421	102,862	995,505	99,663
2009	10%	202,991	480,000	68,070	70,149	821,210	156,239
2010	45%	590,059	140,000	71,296	79,242	880,597	131,339
2011	80%	876,910	45,000	60,380	191,686	1,173,976	59,514
2012	40%	405,451	355,000	111,154	123,636	995,241	112,755
2013	20%	188,448	638,000	101,413	143,962	1,071,823	131,848
2014	0%	98,573	655,000	59,714	26,382	839,669	220,053
2015	0%	82,429	660,000	51,134	34,600	828,163	218,112
2016	5%	9,204	612,000	72,154	174,374	867,732	179,784
2017	100%	911,307	54,000	-50,009	174,490	1,089,788	146,275
2018	50%	580,050	328,000	42,338	55,872	1,006,260	148,320
2019	75%	827,317	89,000	37,985	53,433	1,007,735	158,103
2020	20%	259,540	493,000	66,436	63,822	897,756	190,972
2021	0%	99,928	636,000	63,822	20,595	820,345	211,920
2022	0%	3,822	603,000	37,546	104,866	749,234	227,563
2023	100%	871,194	10,000	13,515	231,606	1,126,315	211,678
2024	50%	591,588	97,000	44,582	89,944	823,114	212,973
2025*	40%	479,000	200,000	57,000	80,000	816,000	210,000

Source: WWD 2020; Note: * Estimated

4.3 Project Resource Availability

The specific sources of water supply for the Project would primarily include groundwater owned by WWD and supplied via WWD infrastructure. This infrastructure would likely be one or more groundwater wells within the Project area or adjacent to it (see Figure 2). It may also include the use of a water broker to find and facilitate the sale of supplemental surface water for Project use, which would be delivered via WWD municipal and industrial infrastructure. WWD has provided the Applicant with a Will Serve Letter (Appendix A) that stipulates a commitment by WWD to supply the Project with primarily groundwater for its construction, and operation needs. This includes up to 150 AF annually of groundwater for every 320 acres of Project area for construction needs. It includes up to 2 AF of groundwater annually for every 320 acres of Project area for operations, and it includes up to 5 AF annually of CVP water for every 160 acres of Project area for operations.

4.3.1 Surface Water Availability

The federal government's watershed delineation system (Jones et al. 2022) places the Project site within the eight-digit hydrologic unit (HU8) known as the Upper Dry (18030009) as well as the HU6 known as the Tulare-Buena Vista Lakes (180300). This is within the southern San Joaquin Valley portion of California's Central Valley. The natural surface water drainage in the San Joaquin Valley primarily collects surface water as rain or snow in the Sierra Nevada Mountains to the east. A lesser amount of runoff as surface water flows out of the Coast Ranges to the west, but there are no perennial streams that reach the valley floor. The surface water that flows from the Sierra Nevada Mountains into HU6 is limited to that carried by the Kern River, Tule River, Kaweah River, and Kings River, which all discharge to Tulare Lake. HU6 is topographically self-contained with no surface water flow outlets to the ocean. The Upper Dry HU8 receives a limited amount of direct rainfall and a very small amount of ephemeral runoff from drainages such as Panoche Creek coming out of the San Benito Mountains (Coast Range). Although this surface water is not a viable water supply source, it provides important inputs for groundwater recharge. It also can cause significant storm-caused flood events, enough that a small earthen dam (Little Panoche Detention Dam) was built in the watershed between 1965 and 1966 for flood control and sediment trapping (USBR 2025). A groundwater recharge enhancement project, which will include a facility on Panoche Creek, is currently in the CEQA review process (WSP USA 2025).

The most significant artificial surface water conveyance through the Upper Dry HU8 is the California Aqueduct, which runs from north to south moving surface water from the California State Water Project (SWP). SWP waters are distributed to various water agencies and districts throughout southern California. In addition, the older federally funded and operated CVP uses multiple major reservoirs to capture surface water for distribution throughout the Central Valley.

4.3.2 Groundwater Availability

The groundwater resource identified by the DWR underlying the Project in this part of the San Joaquin Valley is the Westside Subbasin (5-22.09). It is located in the southern end and western side of the San Joaquin Valley, within the Tulare Lake (surface water) Hydrologic Region (Figure 3). This surface water hydrologic region is an internally drained watershed with inflow from the Kaweah, Kern, Kings, and

Tule Rivers (all flowing west out of the Sierra Nevada Mountains). The endpoint of surface water flow is Tulare Lake, an ephemeral water body that lies south-southeast of the Project site. No surface water from the region that reaches Tulare Lake ever flows out of the region as surface water. It either infiltrates into the ground or evaporates.

The Westside Subbasin is bordered on the west by the Coast Ranges, comprising Tertiary marine sediments and sedimentary rocks, with little to no groundwater resources. The rest of the surrounding areas are other subbasins. To the north and northeast is the Delta-Mendota Subbasin (5-22.7), to the east is the Kings Subbasin (5-22.8), to the southeast is the Tulare Subbasin (5-22.12), and to the southwest is the Pleasant Valley Subbasin (5-22.10; Figure 4). In addition to a small amount of direct rainfall, recharge to the subbasin comes from three primary sources. First is the flow of intermittent stream channels discharging from the Coast Range onto the western valley edge where it seeps into the ground. Second is the deep seepage of water spread over the basin for the purpose of irrigation. The third and final source is inter-basin groundwater flow from the eastern edge of the subbasin (DWR 2006).

The aquifer system within the Westside Subbasin includes a shallow, unconfined aquifer comprising unconsolidated continental deposits of Tertiary and Quaternary age sediments that reach depths of 500 feet to 850 feet below ground surface. Underlying the shallow aquifer is an aquitard known as the Corcoran Clay, separating it from the deep, confined aquifer. The Corcoran Clay varies in thickness from 20 feet to 120 feet. Some usable groundwater is found in the upper levels of the confined aquifer, but brackish water is found in the deepest parts of the confined aquifer. There are wells that draw groundwater from both the deeper, confined aquifer and the shallow, unconfined aquifer (DWR 2006).

Groundwater has been used in this part of the valley since the 1800s, primarily for agricultural purposes. Most of the wells initially drilled were shallow, drawing groundwater from the upper, unconfined aquifer. Just after the turn of the century, the first deep well (to a depth of 700 feet to 800 feet) was drilled near the present-day Lemoore Naval Air Station, east northeast of the Project site. Agriculture expanded in the subbasin through the 1940s with irrigation exclusively using groundwater. In 1963, the WWD agreed to a water supply contract with the USBR to augment the use of groundwater for agriculture. The WWD has expanded its coverage area, initially in 1965 when it merged with the Westplains Water Storage District, and subsequently with additional annexation of land. The WWD now includes 614,700 acres of agricultural land (WWD 2025).

Because of the intensive agriculture in the subbasin and heavy reliance on groundwater, a significant volume of water has been pumped from the subbasin over the past 100 years. The result has been a substantial amount of land subsidence over a large portion of the subbasin. In some areas of the subbasin, land subsidence has been greater than 8 meters (USGS 2016). Subsidence was identified as early as the 1920s and has been monitored since the 1970s. Starting in the 1960s, groundwater pumping was relieved to an extent by the introduction of imported surface water (Table 4). While some recharge of groundwater has been accomplished with imported surface water, heavy drought cycles since 1970 have only increased the reliance on groundwater. As a result, recharge has been reduced in many areas and temporarily eliminated in others (Sneed and Brandt 2015).

Adjudication

The Westside Subbasin is not adjudicated, meaning that landowners may extract groundwater underlying their property without a permit regulating groundwater extraction. Landowners may use the groundwater on a “equal and correlative” basis, and all property owners have a shared right to reasonable use of the aquifer.

Sustainable Yield

The sustainable or safe yield is the amount of groundwater that can be extracted without significantly impacting the resource or substantially lowering the groundwater level over the long term. Based on historical pumping data, measurements of change in aquifer storage, and long-term projections of water availability under various climate change scenarios, sustainable yield was estimated to range from 267,000 AFY to 294,000 AFY (Luhdorff & Scalmanini 2022).

Groundwater Level Trends

Aquifer levels vary on an annual basis, depending on the amount of water that has been added to the aquifer (recharge and inter-basin transfers) and the amount removed (groundwater pumping). Drought and subsequent increases in pumped water, as well as increased periods of precipitation, all affect groundwater levels. Historically, groundwater levels were generally at their lowest levels in the late 1960s prior to the importation of surface water. When the CVP began delivering surface water in 1967 and 1968, water levels began to increase to maximum levels in 1987 and 1988, after declining briefly from 1967 through 1977 due to drought conditions. Water levels again dropped from 1987 through 1992 due to drought conditions. Water levels continued to show effects until 1994. After a series of wet years, water levels recovered, starting in 1998, to levels that nearly reached 1987–1988 levels (DWR 2006). Groundwater elevations and the estimated amount of groundwater pumped for a 60-year period between 1956 through 2015 are included in Table 4.

This table shows the “average” elevation of groundwater in the lower water bearing zone above mean sea level over a period of 60 years. These data indicate that groundwater levels in the Westside Subbasin are directly affected by the amount that is pumped from the basin. Groundwater levels fall the most following years when pumped amounts were greatest. It also shows that groundwater levels recover during years of low pumping. Following years when pumped amounts exceeded safe yield, groundwater levels show an almost immediate recovery. During the drought in 1987 through 1992, water levels reached a low of -62 feet in 1992 when pumping was at a high of 600,000 AF. The next year, in 1993, water levels recovered 63 feet to an elevation of 1 foot.

Table 4. Westlands Water District – Groundwater Pumping Versus Groundwater Level

Year	Groundwater Pumped (AF)	Elevation Above Mean Sea Level (feet)	Elevation Change (feet)	Year	Groundwater Pumped (AF)	Elevation Above Mean Sea Level (feet)	Elevation Change (feet)
1956	964,000	-65	-13	1986	145,000	71	8
1957	928,000	-56	9	1987	159,000	89	18
1958	884,000	-29	27	1988	160,000	64	-25
1959	912,000	-77	-48	1989	175,000	63	-1
1960	872,000	-81	-4	1990	300,000	9	-54
1961	824,000	-96	-15	1991	600,000	-32	-41
1962	920,000	N/A	N/A	1992	600,000	-62	-30
1963	883,000	N/A	N/A	1993	225,000	1	63
1964	913,000	N/A	N/A	1994	325,000	-51	-52
1965	822,000	N/A	N/A	1995	150,000	27	78
1966	924,000	-134	N/A	1996	50,000	49	22
1967	875,000	-156	-22	1997	30,000	63	14
1968	596,000	-135	21	1998	15,000	63	0
1969	592,000	-120	15	1999	20,000	65	2
1970	460,000	-100	20	2000	225,000	43	-22
1971	377,000	-93	7	2001	215,000	25	-18
1972	N/A	-54	39	2002	205,000	22	-3
1973	N/A	-37	17	2003	160,000	30	8
1974	96,000	-22	15	2004	210,000	24	-6
1975	111,000	-11	11	2005	75,000	56	32
1976	97,000	-2	9	2006	15,000	77	21
1977	472,000	-99	-97	2007	310,000	35	-42
1978	159,000	-4	95	2008	460,000	-11	-46
1979	140,000	-13	-9	2009	480,000	-31	-20
1980	106,000	4	17	2010	140,000	9	40
1981	99,000	11	7	2011	45,000	49	40
1982	105,000	32	21	2012	355,000	1	-48
1983	31,000	56	24	2013	638,000	-58	-59
1984	73,000	61	5	2014	655,000	-76	-18
1985	228,000	63	2	2015	660,000	-120	-44

Source: WWD 2015

SGMA established a framework for long-term protection of groundwater through: (a) careful resource evaluation and monitoring, (b) instituting agency responsibility and accountability, and (c) prioritizing basins based on the state of the groundwater resource (DWR 2024a). The WWD was designated as the groundwater sustainability agency (GSA) responsible for the Westside Subbasin. In this role, the WWD has developed, and is in the process of implementing, the GSP to help avoid undesirable results (like overdraft and subsidence) and help mitigate such results (Luhdorff & Scalmanini 2022). The Westside Subbasin (5-22.09) is a critically overdrafted subbasin and, as such, is designated as a high-priority

subbasin (those basins having the greatest need for planning and mitigation). The State therefore requires that a GSP be prepared to provide for that management (DWR 2024a).

4.4 Project Water Demand

The Project would require a short-term, temporary water supply during the construction period (approximately 40 months), and a long-term water supply during the operational period (projected to be 35 years). The anticipated water requirements for each of these periods, in terms of their annual rate and total demand, are summarized in Table 5. The water demand estimates summarized in Table 5 are evaluated for the WSA's required 20-year projection and the Project's anticipated operational lifespan of 35 years. These demands allow an analysis of the availability and reliability of the existing water supply for the Project.

Table 5. Estimated Project Water Demand

Project Phase	Annual Demand (AFY)	Total Demand (AF)
Construction[1/]	133	400
Operation and Maintenance[2/]	5	175
TOTAL DEMAND	**–**	**575**

Notes:
1/ The Project construction period is estimated at approximately 40 months (or 3 years and 4 months). The full Project construction water demand will occur over this period. Construction-period water demand is estimated to be approximately 400 acre-feet (AF) regardless of the duration of construction. A longer construction period would result in a lower annual construction demand.
2/ Operations and maintenance period is assumed to be 35 years. This is 15 years longer than the 20-year projection required to be considered in a Water Supply Assessment. The 35-year period is considered for full disclosure and conservative analysis; this table presents all anticipated water demands of the Project over its anticipated operational lifespan.

The estimated water demand (construction plus operation) for the Project, amortized over 38 years, is approximately 15 AFY. The actual demand sequence is front-loaded, with 70 percent of the total water use in the first approximately 3 years or 40 months (construction period, approximately 133 AFY), and 30 percent over the subsequent 35 years (operations period, approximately 5 AFY).

4.4.1 Construction

The estimated construction period annual water demand (approximately 133 AFY) would average about 0.51 AF (166,184 gallons) per workday over the Project's anticipated 40-month construction period. Project construction demand is anticipated to be met with local groundwater, pumped from the Westside groundwater subbasin.

4.4.2 Operation and Maintenance

The long-term operational water demand for the Project (approximately 5 AFY) is expected to be met by local groundwater, pumped from the Westside groundwater subbasin.

4.5 Water Supply

The specific sources of water supply for the Project primarily include groundwater owned by WWD and supplied via WWD infrastructure. This infrastructure would likely be one or more groundwater wells within the Project area or adjacent to it (Figure 2). It may also include the use of a water broker to find and facilitate the sale of supplemental surface water for Project use, which would be delivered

via WWD municipal and industrial infrastructure. The WWD utilizes a combination of imported surface water and local groundwater to serve its customers. The WWD groundwater would be sourced from the Westside groundwater subbasin.

While the Westside Subbasin is classified as an over-drafted basin and has been designated as a high-priority subbasin under SGMA (DWR 2024b), its water levels are well managed and have showed signs of not only stabilizing but recovering in recent years. Further, the Westside Subbasin provides significant storage capacity for groundwater and projected increases in water demand provide significant opportunity for increased aquifer storage.

4.6 Water Sufficiency Assessment

The CVP imported surface water allocation to WWD is shared between agriculture and incidental non-agricultural water users. Although most WWD customers are agricultural users, some are non-agricultural municipal and industrial users. It has been the policy of USBR to deliver CVP water at a minimum of 75 percent of historical municipal and industrial use, even when agricultural allocations are considered less than that. Historically, when the overall water supply has been reduced, the non-agricultural water allocation may not be reduced by a similar percentage. In certain cases of severe reduction, it is likely that WWD would receive CVP hardship water for health and safety purposes based on the statement of need. WWD water allocated from CVP for non-agricultural use is the last to be curtailed in water shortage situations and can be considered a fairly stable source of water for the proposed Project (WWD 2015).WWD has indicated that the Project, as a solar power project, is eligible for municipal and industrial water and has provided a Will Serve Letter, included as Appendix A. Reliability of water supplies used by WWD is dependent on effective management. It is reasonable to assume that the WWD would not use or distribute their allocated water supplies in a manner that would negatively affect long-term reliability.

During drought years, WWD relies heavily on groundwater resources from the Westside Subbasin. As was shown from historical data of groundwater pumping versus groundwater levels (Table 2), overdraft of groundwater as a result of higher groundwater pumping seems to have no long-term effects on the groundwater basin. In fact, prior to the introduction of CVP water to the region in 1967–1968, average pumping from the basin was approximately 895,000 AFY between 1956 and 1966, and as a result groundwater levels reached an all-time low water level of -156 feet (below mean sea level) in 1967. Following the introduction of CVP water in 1967, average pumping from the basin dropped to approximately 380,000 AFY for a 10-year period between 1967 to 1978, and groundwater levels recovered 152 feet to a water level of -4 feet in 1978. This trend suggests that any potential overdraft conditions resulting from heavy groundwater pumping are temporary in nature.

Safe yield for the Westside Subbasin is currently estimated to be between 267,000 AFY and 294,000 AFY. The proposed Project requires a total of approximately 400 AF over 40 months for construction activities, or approximately 133 AFY. If the construction water were to be equally distributed over 3 years, this would equate to 0.04 percent of the basin safe yield for each of the 3 years.

4.7 Mitigation Measures

The results of this WSA indicate that the Project would have a secure supply of water from the Westside groundwater subbasin, as referenced within the WWD Will Serve Letter (Appendix A). Additionally, to ensure that the subbasin is sustainably managed, WWD has committed to the following projects to address sustainability goals, meet measurable objectives, and avoid causing undesirable results within the subbasin (Luhdorff & Scalmanini 2022). These include the following five projects.

Project Number 1. Surface Water Imports

Historically, surface water imports supplied the majority of agricultural, municipal, and industrial water demand in the Subbasin. This is expected to continue reducing the demand and reliance on groundwater within the Westside Subbasin during the 50-year GSP planning and implementation horizon. Project No. 1 will improve both the reliability and availability of surface water; therefore, it serves to reduce the Subbasin's reliance on groundwater, which helps achieve the GSP goal.

Project Number 2. Initial Allocation of Groundwater Extraction

This management action requires the GSA to allocate and manage groundwater pumping among water users to avoid undesirable results. In particular, the GSA's objective in developing an allocation of groundwater is to enable the continued beneficial use of groundwater for the current and planned uses within the Subbasin in a cumulative quantity that will avoid identified undesirable results that have been identified. The allocation plan provides each person with land overlying the Subbasin continued access to groundwater in accordance with the allocation plan.

Project Number 3. Aquifer Storage and Recovery

Aquifer Storage and Recovery is being investigated by WWD as a conjunctive use strategy to improve water supply reliability within the Subbasin. Because there is a predominance of fine-grained soils combined with the occurrence of the Corcoran clay throughout the majority of the Subbasin, there are limited opportunities for surface recharge within the Subbasin to benefit lower aquifer groundwater conditions (Luhdorff & Scalmanini 2022). As a result, the GSA has proposed implementing a large-scale agricultural Aquifer Storage and Recovery program, through artificial injection wells, as a more pragmatic alternative to enhance subsurface recharge in the Subbasin.

Project Number 4. Targeted Pumping Reductions

Historic and projected land subsidence will significantly and adversely impact the ability for the USBR and DWR to convey water without implementing new design and construction measures to mitigate the impacts to aqueduct operations from subsidence. Consequently, the GSA has developed a process to require groundwater pumping reductions in portions of the Subbasin and when necessary to immediately and directly relieve the groundwater pumping stress when continued pumping would produce significant undesirable results.

Project Number 5. Percolation Basins

Managed aquifer recharge through percolation basins is being considered by the GSA as an additional groundwater replenishment strategy within the Subbasin. Soils within 6 feet of the ground surface in

many areas of the Subbasin are predominantly composed of fine-grained material, which limits recharge to the aquifer system. However, there are areas where soil properties are suitable for possible recharge basins. The GSA is currently investigating the use of dry wells within percolation basins to enhance groundwater recharge.

5.0 WATER AVAILABILITY CONCLUSIONS

During drought years, WWD relies heavily on groundwater resources from the Westside Subbasin. As was shown from historical groundwater pumping volumes versus groundwater levels (Table 3), overdraft of groundwater because of higher groundwater pumping seems to have no long-term effects on the groundwater basin. Prior to the introduction of CVP water to the region in 1967–1968, average pumping from the basin was approximately 895,000 AFY between 1956 and 1966. During this period groundwater levels reached an all-time low water level of -156 feet in 1967. Following the introduction of CVP water in 1967, average pumping from the basin dropped to approximately 380,000 AFY for a 10-year period between 1967 to 1978, and groundwater levels recovered 152 feet to a water level of -4 feet in 1978. This trend suggests that any potential overdraft conditions resulting from heavy groundwater pumping are temporary.

Safe yield for the Westside Subbasin is estimated in a range between 267,000 AFY and 294,000 AFY. The proposed Project requires a total of approximately 400 AF over 40 months for construction activities, or approximately 133 AFY. If the construction water were to be equally distributed over 3 years, this would equate to 0.04 percent of the basin safe yield for each of the 3 years. The Westside Subbasin is under the management of WWD, and they have prepared a GSP to manage the basin and ensure that it is sustainable through the next 20 years and beyond. WWD has also committed to supplying the Project with Westside Subbasin groundwater for its construction and operations water use needs (Appendix A).

6.0 REFERENCES

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FIGURES

Clearway Energy
Heartland Solar Project

Figure 1
Regional Overview

Fresno County, CA

Proposed Features

- Gen-tie Line
- Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:1,100,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 20 40 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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Clearway Energy
Heartland Solar Project

Figure 2
Project Location

Fresno County, CA

15S/14E-01B01

15S/14E-01K02

- Well Locations

Proposed Features

- Gen-tie Line
- Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:35,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 1 2 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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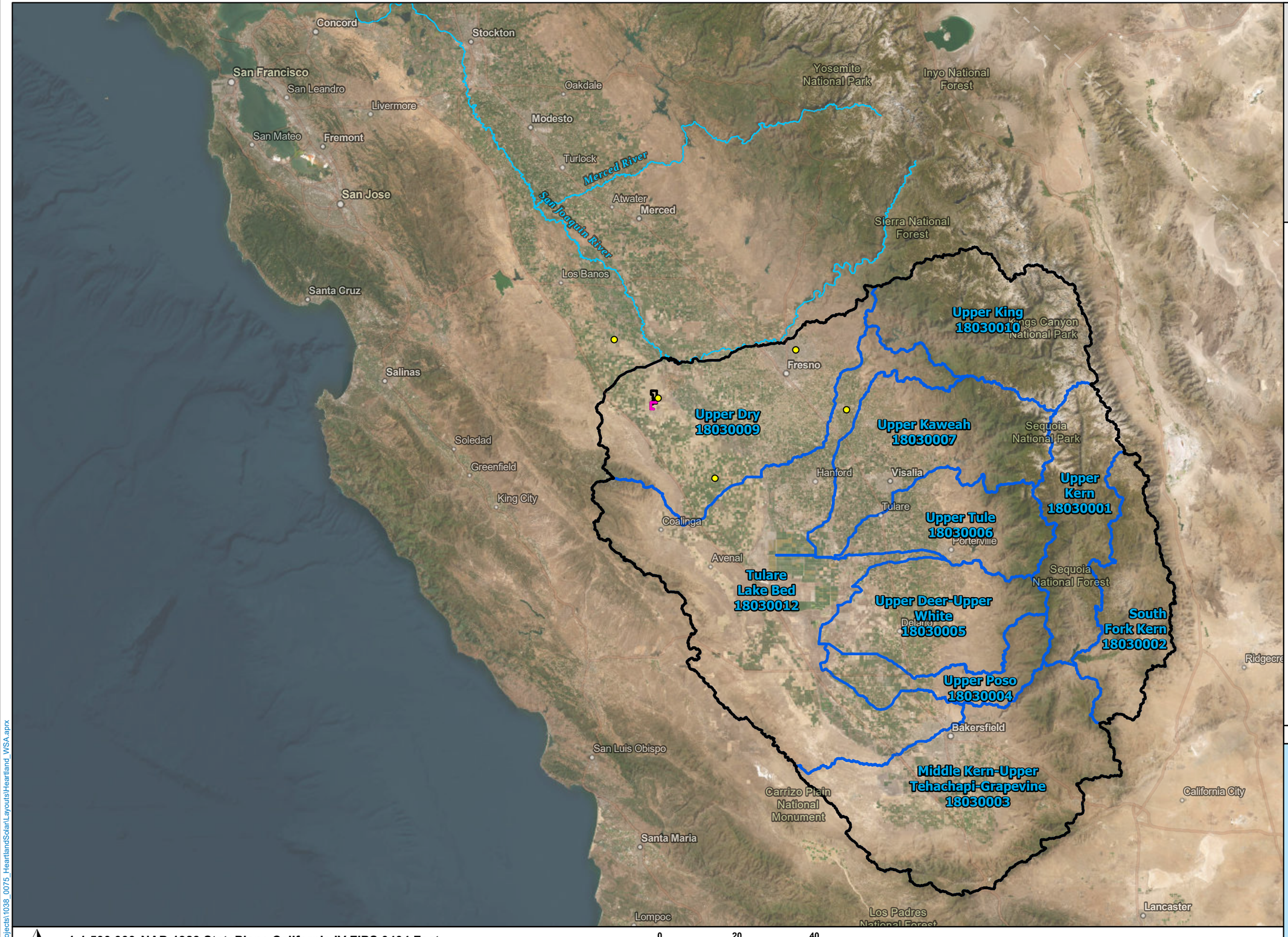
Clearway Energy
Heartland Solar Project

Figure 3
Surface Water Resources

Fresno County, CA



- Climate Stations
- HU6 Boundary: Tulare-Buena Vista Lakes (180300)
- HU8 Boundary

Proposed Features

- Gen-tie Line
- Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:1,500,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

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Source: ESRI, USDA NAIP, US CENSUS, BTS

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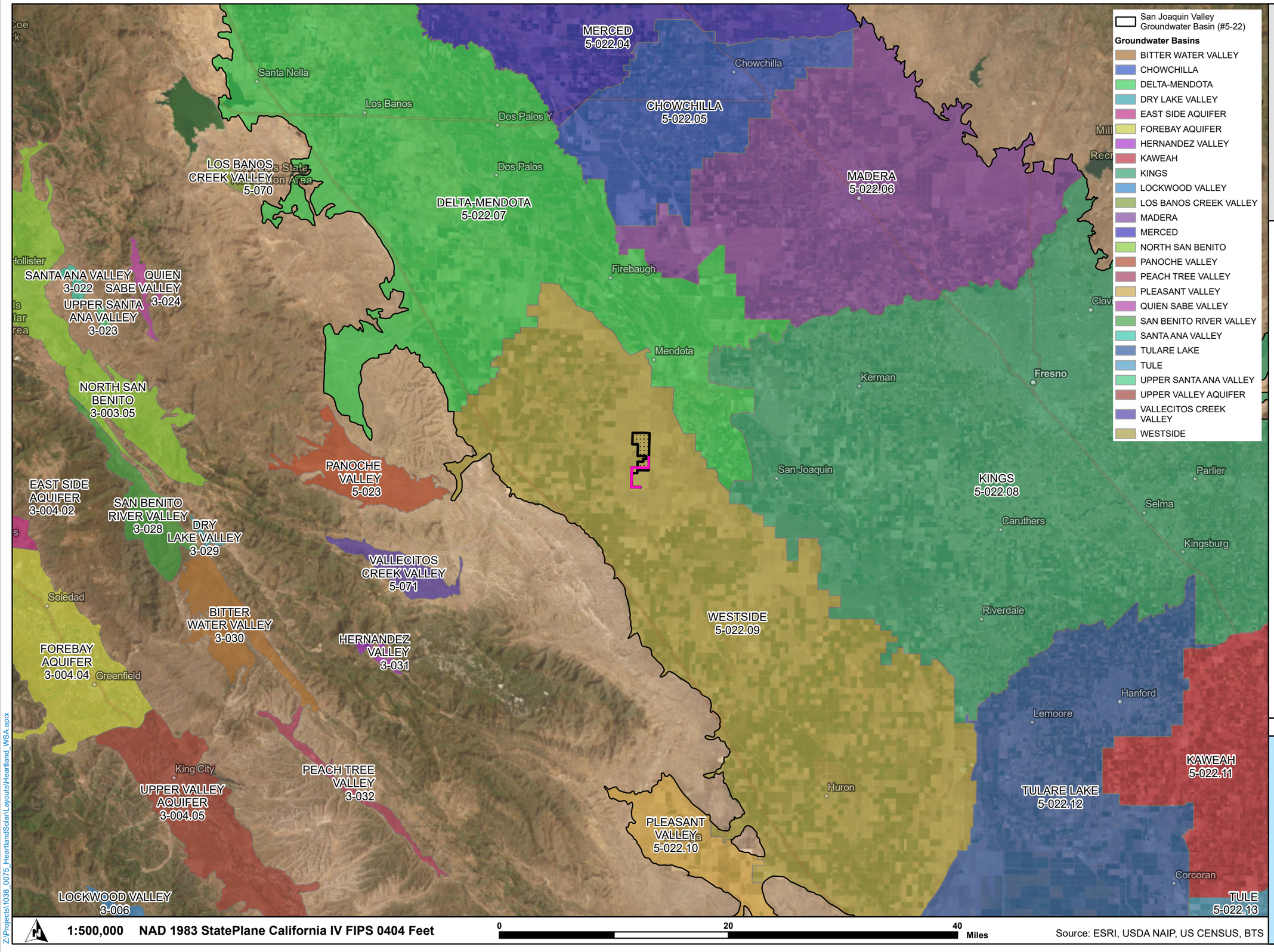

Clearway Energy
Heartland Solar Project

Figure 4
Groundwater Basins

Fresno County, CA

Proposed Features

Gen-tie Line

Project Site

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

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Clearway Energy
Heartland Solar Project

Figure 5
Water District Service Areas

Fresno County, CA

Proposed Features

- Gen-tie Line
- Project Site

AgencyName

- City of Mendota
- Panoche Water District
- Westlands Water District

TETRA TECH

NOT FOR CONSTRUCTION

Reference Map

1:450,000 NAD 1983 StatePlane California IV FIPS 0404 Feet

0 20 40 Miles

Source: ESRI, USDA NAIP, US CENSUS, BTS

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APPENDIX A: WILL SERVE LETTER

Westlands Water District

April 8, 2025

Sarah Linden
Clearway Energy Group LLC
c/o Heartland Solar I, LLC
100 California Street, Suite 650
San Francisco, CA 94111

Re: Heartland Solar I LLC Solar Project

Dear Ms. Linden,

Westlands Water District (District) has reviewed the operational statement for the proposed solar generation project, Heartland Solar I LLC (Project). After reviewing the operational statement, we have the following comments about the Project:

1. The Project lies within the District boundary. This land does not receive an allocation of water from the District's agricultural water supply. The Project is eligible to receive water through the District's Municipal and Industrial (M&I) supply and the land will continue to have access to the District's distribution system.

2. The District has adopted regulations governing the application for and use of M&I water (Regulations). The Regulations stipulate the quantity of water that will be made available to a water user from the District's Central Valley Project (CVP) contract supply. The District will make available up to five (5) acre-feet per 160 acres of developed solar, annually for operations. A copy of the Regulations is also provided for your information.

3. Clearway must submit an M&I application for consideration in order receive M&I service. Once approved an M&I meter will be installed near the project site, at the applicant's expense.

4. The District, as the owner of the groundwater rights, on the Project site, will authorize up to 150 acre-feet of groundwater pumping annually for every 320 acres acquired, during the construction period only.

5. The District, as the owner of the groundwater rights, on the Project site, will authorize up to 2 acre-feet of groundwater pumping annually for every 320 acres acquired, during the operation period, following construction.

Thank you for the opportunity to assist in this matter. If you have any additional questions, please feel free to contact Alma Antuna at 559-241-6235.

Sincerely,

Stephen Farmer
Chief Administrative Officer

Appendix M
Recipients of the Draft EIR

Heartland Solar Project-specific Distribution List
EIR 7564

Updated: December 16, 2024

Agencies, Tribes, Other Stakeholders	Contact
Project-specific recipients	
Fresno County	Alexander Pretzer
Fresno County	David Randall
Fresno County	Joseph Potthast
City of Mendota c/o Provost & Pritchard Consulting Group	Jeffrey O'Neal, AICP
City of Mendota c/o Provost & Pritchard Consulting Group	Michael Osborn, PE
Environmental Science Associates	Janna Scott
Environmental Science Associates	Maria Hensel
Clearway Energy	Deandra Cass
Clearway Energy	Aarty Joshi
Clearway Energy	Max Sugihara
Clearway Energy	James Kelly
Possible responsible agencies, trustee agencies, or potentially affected Federal agencies	
California Department of Conservation, Division of Land Resource Protection	Dennis O'Bryant
California Department of Conservation, Geologic Energy Management Division	
California Department of Fish & Wildlife, Region 8	Craig Bailey
California Department of Fish & Wildlife	Jeremy Pohlman
California Department of Forestry and Fire Protection, Fresno-Kings Unit	
California Department of Transportation, District 6	Dave Padilla, Branch Chief, Transportation Planning – North
California Energy Commission	Terry O'Brien
California Environmental Protection Agency, Department of Toxic Substance Control	Dave Kereazis
California Highway Patrol	Eric Walker, Captain
California Native American Heritage Commission	Katy Sanchez
California Public Utilities Commission	Mary Jo Borak
California Regional Water Quality Control Board, Region 5	Dale Harvey
San Joaquin Valley Air Pollution Control District	Arnaud Marjollet, Director of Permit Services
Southern San Joaquin Valley Archaeological Info Center	Celeste Thompson
State Office of Historic Preservation, Department of Parks & Recreation	Lucinda Woodward
United States Department of the Interior, Fish & Wildlife Services - Endangered Species Div.	Matthew Nelson
Native American Tribes	
Dumna Wo Wah	Chris Acree
Dumna Wo Wah Government	Robert Ledger, Tribal Chairman
Picayune Rancheria of the Chukchansi Indians	Heather Airey - Cultural Resources Director
Santa Rosa Rancheria Tachi Yokut Tribe	Ruben Barrios, Tribal Chairman, c/o Cultural Department
Table Mountain Rancheria	Robert Pennell, Tribal Cultural Resources Director
Other agencies	
Central Valley Flood Protection Board	Leslie Gallagher
City of Firebaugh	Ben Gallegos, City Manager
City of Kerman, Community Development Department	Jesus R. Orozco
City of Mendota, Planning and Community Development	Cristian Gonzalez
City of San Joaquin	Lupe Estrada
Consolidated Mosquito Abatement District	Steve Mulligan
County of Madera, Community and Economic Development - Planning	Jamie Bax, Deputy Director
Fresno Council of Governments	Tory Boren
Fresno County Fire Protection District/ CAL FIRE	Larry E. Brown, Senior Fire Inspector
Fresno Metropolitan Flood Control District	Frank Fowler
Golden Plains Unified School District	Martin Macias, Superintendent
James Irrigation District	
Kings Basin Water Authority	
Kings River Conservation District	Paul Peschel, General Manager
Mendota Unified School District	Dr. Paul Lopez, Superinendent
NAVFACSW INTERGOVERNMENTAL BRANCH	
State Lands Commission	Assistant Chief, Environmental Planning and Management Division
State of California Reclamation Board	
Tranquillity Irrigation District	Liz Reeves
Tranquillity Resource Conservation District	Danny Wade
United State Department of Agriculture, Natural Resources Conservation Service	David Durnham
United States Army Corp of Engineers, Sacramento District	Kathy Norton
United States Environmental Protection Agency Region 9	Dawn Richmond
Westlands Water District	Russ Freeman
Westlands Water District GSA	Kiti Buelna Campbell
Westlands Water District	Brent Dragomanovich, Associate Resources Analyst
Westlands Water District	Stephen Farmer, Chief Administrative Officer
Westside Resources Conservation District	
Other stakeholders and special interests	
Adams Broadwell Joseph & Cardozo	Sheila Sannadan, Maya Smith
Laborers Intl Union of N. America, Local Union 294	
Lozeau Drury, LLP	R. Drury, M. Lozeau, T. Rettinghouse, S. Osborne, H. Hughes, K. Toor
DOWNEY BRAND LLP	
	Maggie Coulter

Heartland Solar - Owners within 5280ft of site boundary

ALDACOURROU NICOLAS TRUSTEE
ALVARADO JUAN
BELDEN LAURA K TRUSTEE
BROOKS FARMS II
CHURCH DENVER S
CLARK BROS INC
E KALOFONOU LLC
ELGORRIAGA STEPHEN A & LISA V TRS
ELICAGARAY MARCEL & CHRISTINE TRUSTEES
ESCALANTE FARMS INC
ETCHARREN PIERRE & DENISE
ETCHEGOINBERRY MICHAEL
LAWLEY HAROLD DEAN & JOAN M
LUNA VALLEY SOLAR I LLC
MC CRAY JOHN W TR
RE ADAMS EAST LANDCO LLC
RE TRANQUILLITY LANDCO LLC
S3 GROUP LLC
SCHULENBERG RICHARD A
SIDDIQUE TAUSEEF M & ROOMANA
SRAN CHILDREN ALMONDS LLC
TISCARENO ANGEL
WATER LANDS BTI LLC