

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

1010 10TH Street, Suite 3400, Modesto, CA 95354 Planning Phone: (209) 525-6330 Fax: (209) 525-5911 Building Phone: (209) 525-6557 Fax: (209) 525-7759

Referral Early Consultation

Date: August 23, 2021

To: Distribution List (See Attachment A)

From: Kristen Anaya, Assistant Planner

Planning and Community Development

Subject: STAFF APPROVAL PERMIT APPLICATION NO. PLN2021-0043 – PAULSELL

SOLAR ENERGY CENTER

Respond By: September 10, 2021

****PLEASE REVIEW REFERRAL PROCESS POLICY****

The Stanislaus County Department of Planning and Community Development is soliciting comments from responsible agencies under the Early Consultation process to determine: a) if new significant environmental effects or a substantial increase in the severity of previously identified significant effects exist in accordance with CEQA Guidelines Section 15162and b) if specific conditions should be placed upon project approval.

Therefore, please contact this office by the response date if you have any comments pertaining to the proposal. Comments made identifying potential impacts should be as specific as possible and should be based on supporting data (e.g., traffic counts, expected pollutant levels, etc.). Your comments should emphasize potential impacts in areas which your agency has expertise and/or jurisdictional responsibilities.

These comments will assist our department in making a determination and applying Conditions of Approval; therefore, please list any conditions that you wish to have included as well as any other comments you may have. Please return all comments and/or conditions as soon as possible or no later than the response date referenced above.

Thank you for your cooperation. Please call (209) 525-6330 if you have any questions.

Applicant: Crow Creek Solar, LLC

Project Location: 24776, 23760, & 23409 Davis Rd, 0 Hwy 5, in the Newman area

APN: 025-017-019, 027-017-090, -091, & 026-012-003

Williamson Act

Contract: Not Applicable

General Plan: Agriculture

Current Zoning: A-2-40 and A-2-160 (General Agriculture)

Project Description:

Request to amend Use Permit No. 2010-09 – Scatec Westside Solar Farm, which was approved by the Planning Commission on November 4, 2010 to construct a utility grade 50 megawatt (MW) solar facility comprised of two phases on 382± acres of a 1,132± acre project site. A Mitigated Negative Declaration (MND) was prepared and adopted in conjunction with the approved project. A Time Extension, granting the applicant an additional five years to construct, was approved by the Planning Commission July 19, 2012. Additionally, Staff Approval Permits No. PLN2015-0060 and No. PLN2015-0132 were granted, adding technical & environmental detail for the PG&E Crow Creek Switching Station and allowing the construction and utilization of an on-site collector substation, respectively. These Staff Approvals, in addition to the current request, have been requested in accordance with Section 21.100 – Staff Approvals which allows up to 25% increase of a use approved by Use Permit.

An Addendum to the MND was prepared to address the proposed amendments which will remain within the project footprint approved in 2010, on land regularly disturbed in conjunction with onsite crops and crop rotation. The proposed revisions to the project include:

- Increasing the development footprint of Phase 2 from 191 to 232 acres.
- Utilizing either a fixed racking or single-axis instead of just a single-axis tracking system.
- Implementation of battery energy storage system (BESS) that was not previously proposed, with individual battery units co-located at each array block throughout the site.
- Construction of an on-site collector substation within a 10-acre footprint.
- Utilizing the new on-site collector substation instead of the existing on-site PG&E Crow Creek Switching Station, which was approved for Phase 1's use via Staff Approval Permit No. PLN2015-0132.
- Perimeter fence height increase from 6 feet to 6-8 feet.
- Replacement of an operations & maintenance trailer with a 2,500-square foot building.

The 2010 project identified two phases totaling 382 acres (191 acres approved for each phase) within the 1,132 acre project site to be developed. Phase 1 has been developed and is currently in operation, comprising only 173 acres and producing 20MW. Paulsell Solar is proposing to develop the amended Phase 2, increasing the overall development Phase 2 footprint by 41 acres, from 191 acres to 232 acres, to be contained within the overall project area originally analyzed in the 2010 MND. The overall project footprint is increasing by 23 acres. Within this footprint, Paulsell Solar proposes to install the aforementioned solar support facilities, including the battery energy storage system dispersed and interconnected throughout the site and a 2,500 square foot operations and management (O&M) building. The approved project proposal was unmanned and anticipated a peak aggregate power capacity of 50 megawatts (MW). Paulsell proposes to increase the number of fulltime employees on-site from one to three full-time employees for the O&M building, and a peak aggregate power capacity of 20 megawatts for Phase 2, for a total aggregate power capacity of 40 MW. The anticipated construction schedule will remain the same at approximately 8 months and is proposed to generate approximately 300 daily vehicle trips, during construction. The proposed revisions to the Use Permit are described in greater detail in the attached documentation, including the addendum as described below.

To assess the proposed expansion/modification/revision to the project, an Addendum has been prepared. All modifications to the approved project are to be contained within the original approved project site, and up to a 25% increase in the original development footprint is proposed. The proposed project will generate fewer megawatts than originally proposed; however, the facility would still not result in unnecessary or inefficient consumption of energy due to the limited onsite use versus the overall increased energy generated. Additionally, the overall operational vehicle trips are anticipated to increase with this project due to the proposed additional two employees; however, the study area intersections and freeway segments described in the appendices will continue to operate at acceptable levels of service based on thresholds established by Caltrans. Both a Water Supply Assessment and a Phase I Environmental Site Assessment have been prepared for the proposed project. The Water Supply Assessment, which assesses the project's impact on both surface water supplies and groundwater supplies, has concluded that there are sufficient groundwater resources to accommodate project's construction and operational water demand under normal-year, single-dry-year and multiple-dry-year conditions over a 20-year period. The site is currently served by the Oak Flat Water District for irrigation water sourced from the California Aqueduct. Groundwater provided by an existing on-site well would be the primary source of water for the project, including domestic water use for the employees, solar panel washing, and dust suppression; however, should it be necessary, the applicant has proposed to truck in water as a secondary source. The Phase I Environmental Site Assessment, which identifies the presence or possibility of hazardous substances on the project site, identified possible sources of on-site hazards, including aboveground storage tanks, an on-site transformer or capacitor which may contain polychlorinated biphenyl, and crude oil pipelines; however, no presence of hazardous substances or materials have been confirmed. A recent groundwater study conducted at the Fink Road Landfill north of the project site identified traces of volatile organic compounds in the groundwater at a nearby monitoring well. Due to the environmental conditions identified in the



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Phase I study, recommendations made by the study—including a survey of lead-based paint prior to demolition of on-site structure, decommissioning of unused on-site wells, and testing of on-site supply wells for volatile organic compounds—will be added to the project as conditions of approval. Other potential environmental impacts have been analyzed in the attached Addendum and it has been determined that the proposal will yield less-than significant or no new impacts.

Full document with attachments available for viewing at: http://www.stancounty.com/planning/pl/act-projects.shtm



STAFF APPROVAL PERMIT APPLICATION NO. PLN2021-0043 - PAULSELL SOLAR ENERGY CENTER

Attachment A

Distribution List

Distri	bution List		
	CA DEPT OF CONSERVATION Land Resources / Mine Reclamation	Х	STAN CO ALUC (REFERRAL AREA 2)
Х	CA DEPT OF FISH & WILDLIFE		STAN CO ANIMAL SERVICES
Χ	CA DEPT OF FORESTRY (CAL FIRE)	Χ	STAN CO BUILDING PERMITS DIVISION
Χ	CA DEPT OF TRANSPORTATION DIST 10		STAN CO CEO
	CA OPR STATE CLEARINGHOUSE		STAN CO CSA
Χ	CA RWQCB CENTRAL VALLEY REGION	Χ	STAN CO DER
	CA STATE LANDS COMMISSION	Χ	STAN CO ERC
Χ	CEMETERY DISTRICT: HILLS FERRY	Χ	STAN CO FARM BUREAU
	CENTRAL VALLEY FLOOD PROTECTION	Х	STAN CO HAZARDOUS MATERIALS
	CITY OF:		STAN CO PARKS & RECREATION
	COMMUNITY SERVICES DIST:	Х	STAN CO PUBLIC WORKS
	COOPERATIVE EXTENSION		STAN CO RISK MANAGEMENT
	COUNTY OF:		STAN CO SHERIFF
Х	DER GROUNDWATER RESOURCES DIVISION	Х	STAN CO SUPERVISOR DIST 5: C. CONDIT
Х	FIRE PROTECTION DIST: WEST STAN FIRE		STAN COUNTY COUNSEL
Χ	GSA: DM-II		StanCOG
Х	HOSPITAL DIST: DEL PUERTO HEALTHCARE	Х	STANISLAUS FIRE PREVENTION BUREAU
Χ	IRRIGATION DIST: OAK FLAT	Χ	STANISLAUS LAFCO
Х	MOSQUITO DIST: TURLOCK		STATE OF CA SWRCB DIVISION OF DRINKING WATER DIST. 10
	MOUNTAIN VALLEY EMERGENCY MEDICAL SERVICES	Х	SURROUNDING LAND OWNERS
	MUNICIPAL ADVISORY COUNCIL:	Χ	TELEPHONE COMPANY: AT&T
Х	PACIFIC GAS & ELECTRIC		TRIBAL CONTACTS (CA Government Code §65352.3)
	POSTMASTER:		US ARMY CORPS OF ENGINEERS
	RAILROAD:		US FISH & WILDLIFE
Χ	SAN JOAQUIN VALLEY APCD		US MILITARY (SB 1462) (7 agencies)
Х	SCHOOL DIST 1: NEWMAN-CROWS LANDING UNIFIED		USDA NRCS
	SCHOOL DIST 2:		WATER DIST:
	WORKFORCE DEVELOPMENT		
Χ	STAN CO AG COMMISSIONER		
	TUOLUMNE RIVER TRUST		

STANISLAUS COUNTY CEQA REFERRAL RESPONSE FORM

TO:

TO:	Stanislaus Coun 1010 10 th Street, Modesto, CA 95		elopment
FROM:			
SUBJECT:	STAFF APPROV	AL PERMIT APPLICATION NO. CENTER	. PLN2021-0043 – PAULSELL
Based on thi project:	s agency's particul	ar field(s) of expertise, it is our	position the above described
		gnificant effect on the environme ficant effect on the environment.	nt.
		s which support our determinatio tc.) – (attach additional sheet if n	
TO INCLUDE	E WHEN THE MIT	tion measures for the above-liste TIGATION OR CONDITION NE P, PRIOR TO ISSUANCE OF A	EEDS TO BE IMPLEMENTED
	ur agency has the fo	ollowing comments (attach additi	onal sheets if necessary).
Response pre	epared by:		
Name		Title	Date

SAA PLN2021-0043

AREA MAP

LEGEND

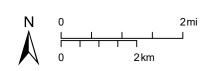
Project Site

Sphere of Influence

City

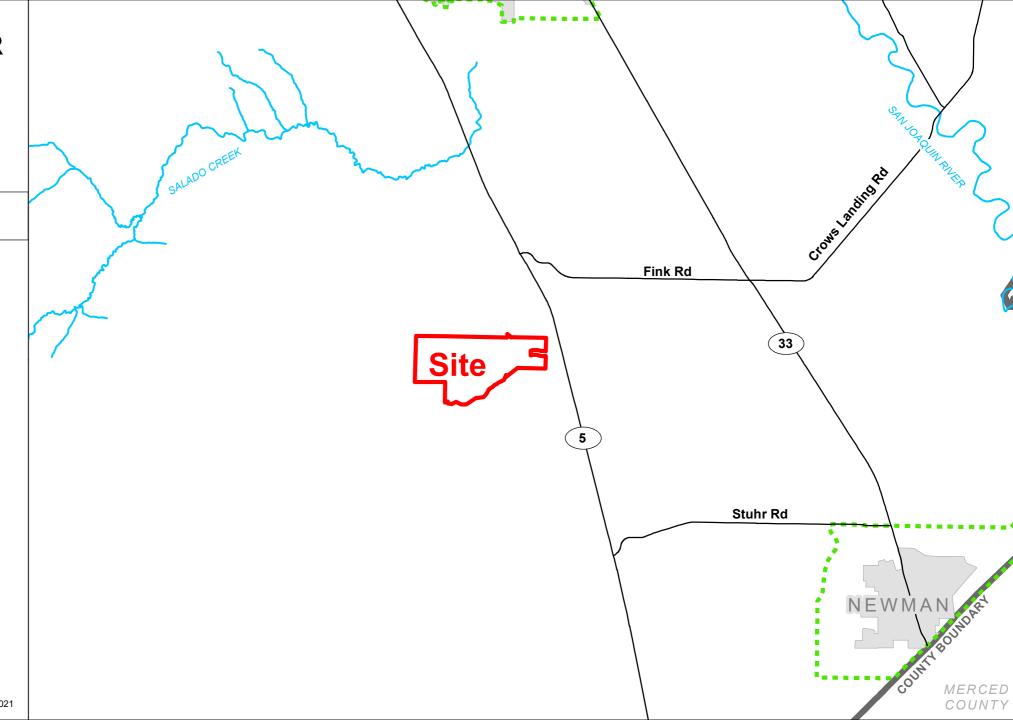
----- Road

River



Source: Planning Department GIS

Date: 6/23/2021



IKE CROW RD

ANDERSON RD

AG

BELL RD

FINK RD

DAVIS RD

CALIFORNIA AQUEDUCT

AG

HCPD

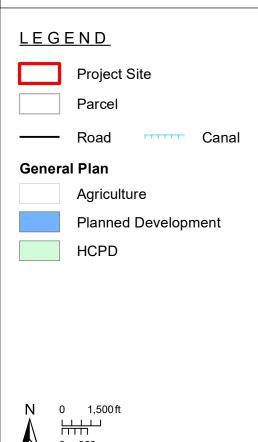
Site

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SAA PLN2021-0043

GENERAL PLAN MAP



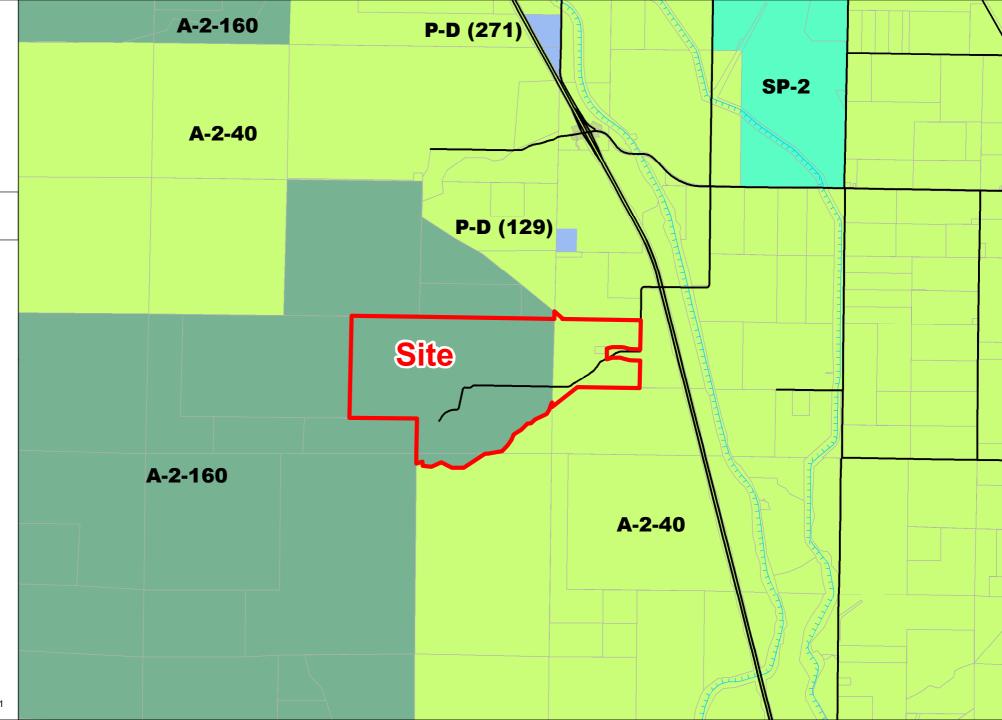
Source: Planning Department GIS

Date: 6/23/2021

SAA PLN2021-0043

ZONING MAP





SAA PLN2021-0043

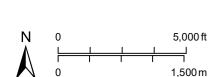
2017 AERIAL AREA MAP

LEGEND

Project Site

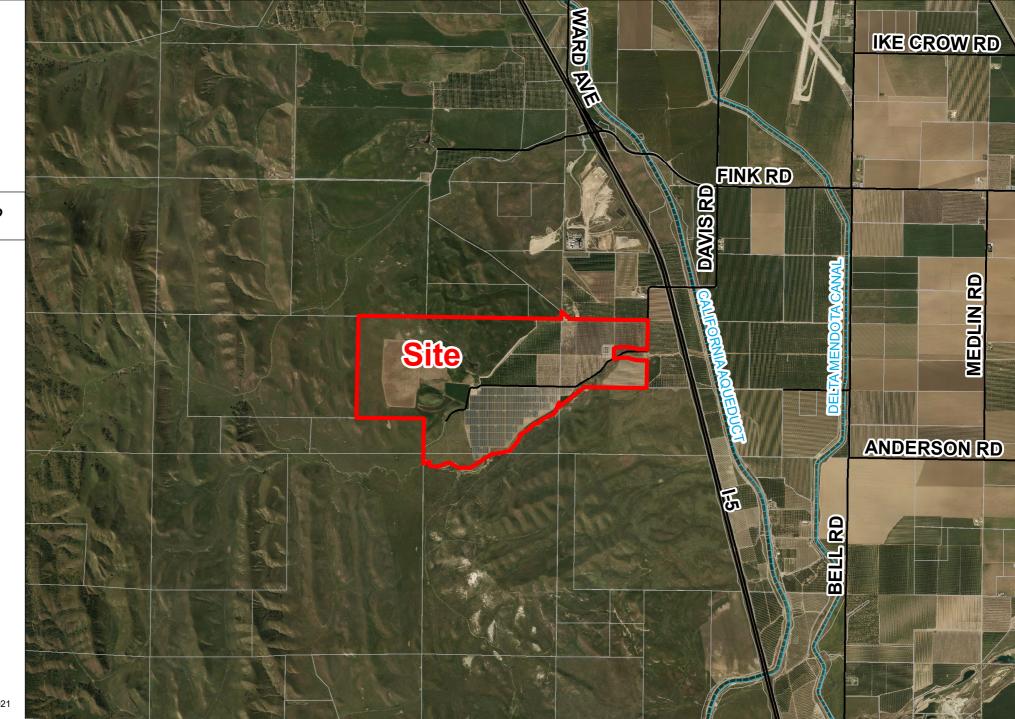
— Road

····· Canal



Source: Planning Department GIS

Date: 6/23/2021



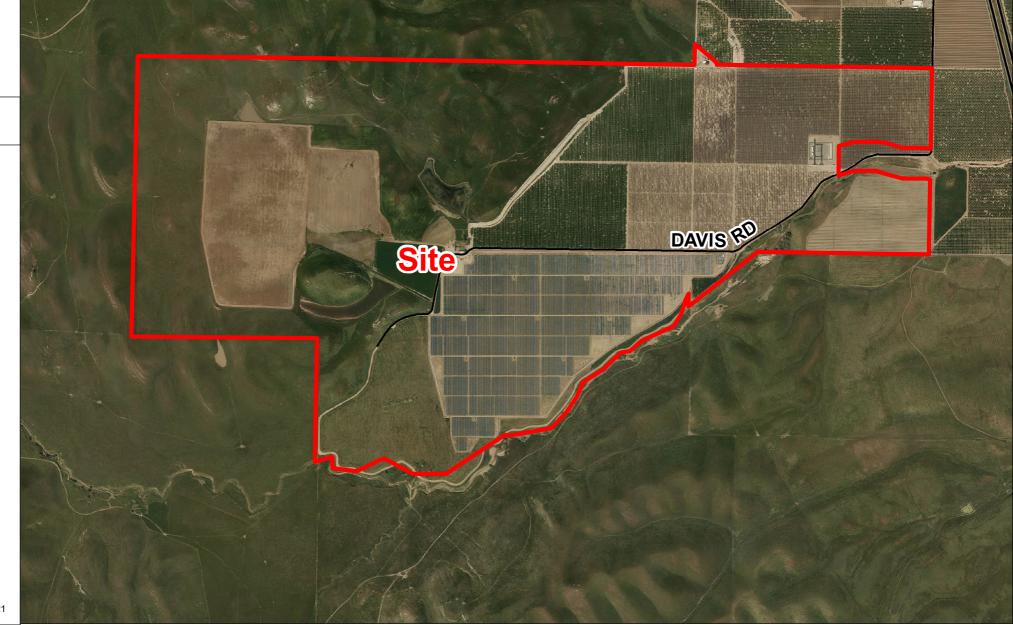
SAA PLN2021-0043

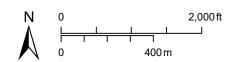
2017 AERIAL SITE MAP

LEGEND

Project Site

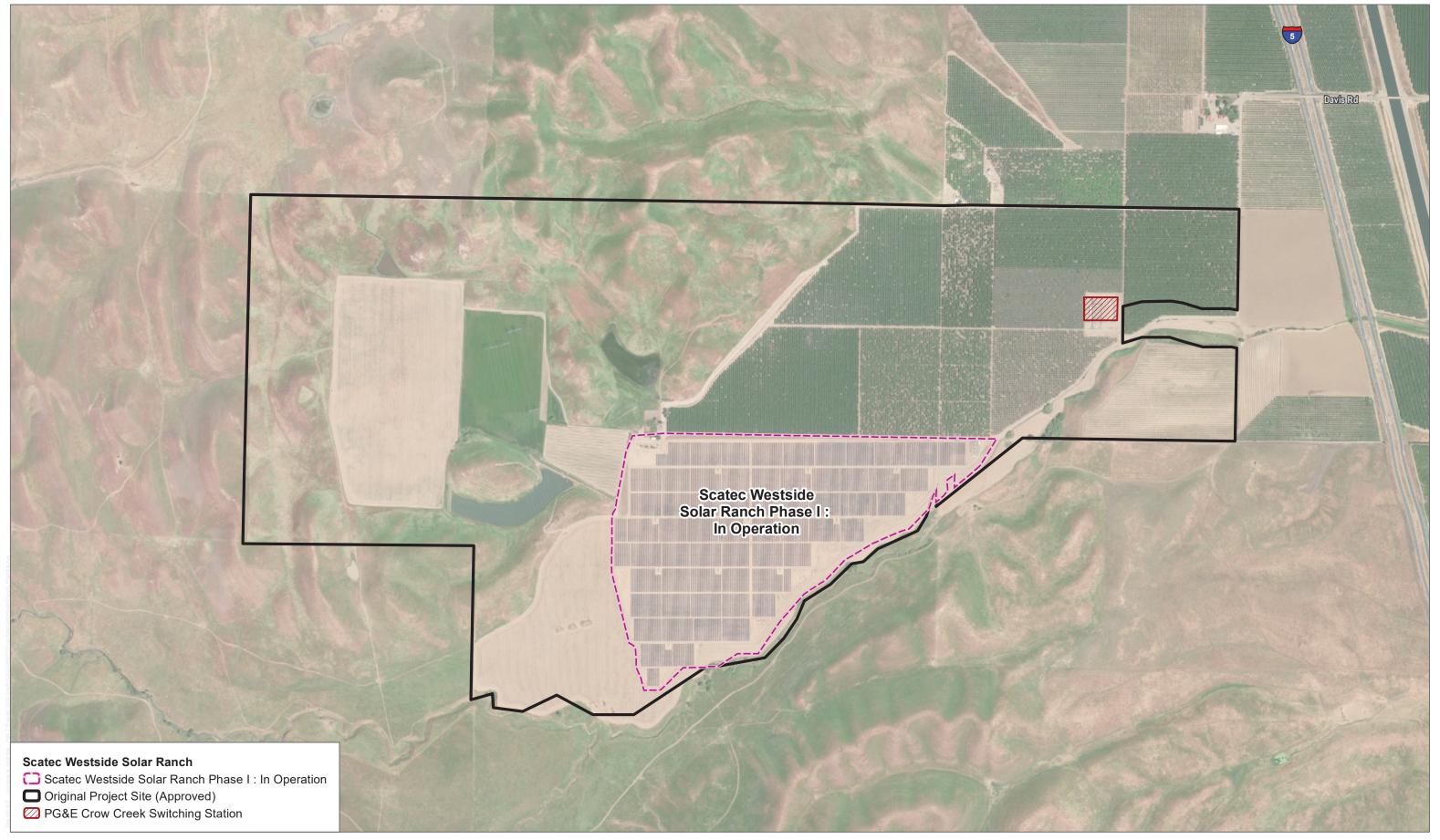
—— Road





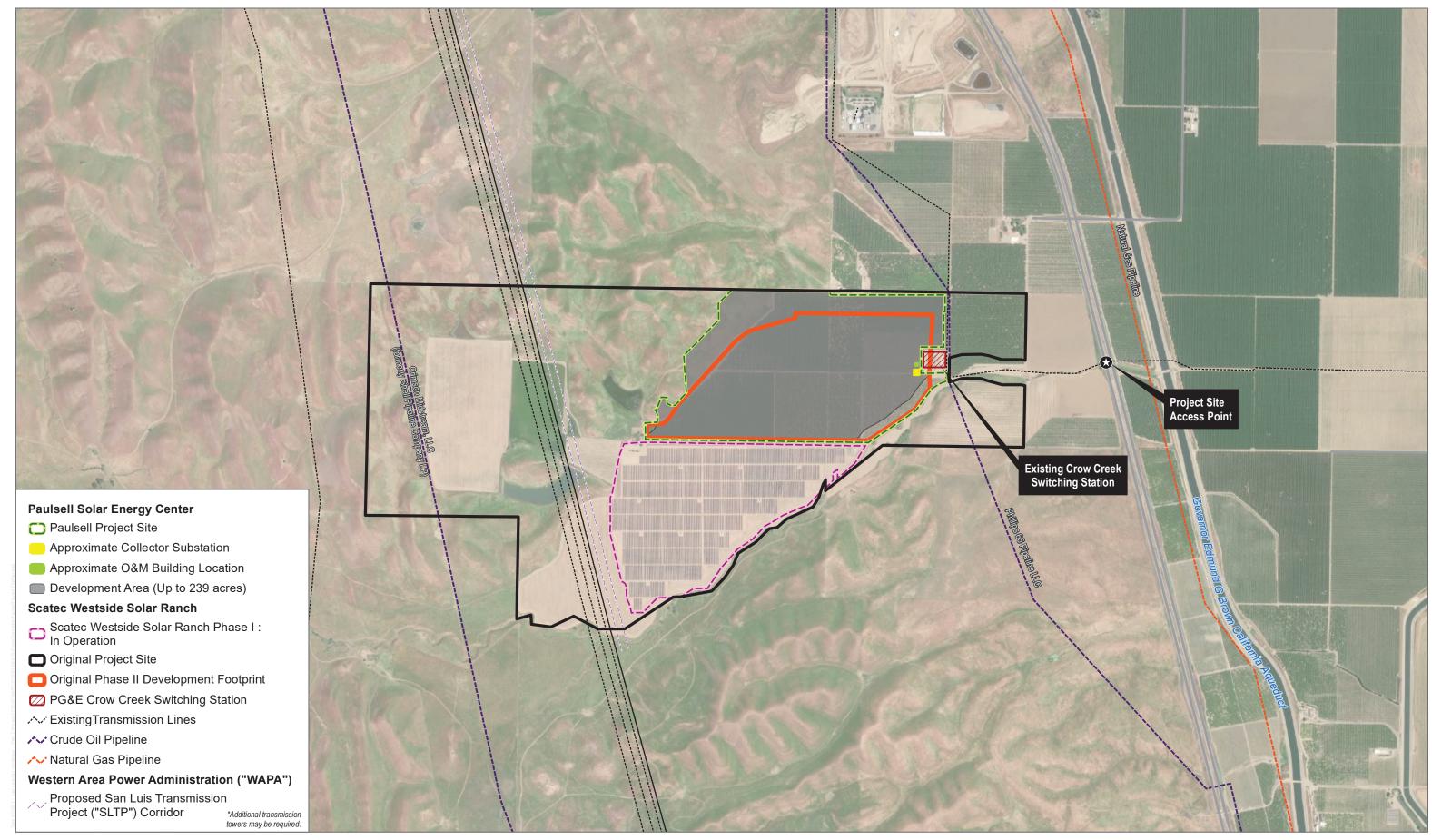
Source: Planning Department GIS

Date: 6/23/2021



SOURCE: Esri Aerial Imagery, Stanislaus County 2018

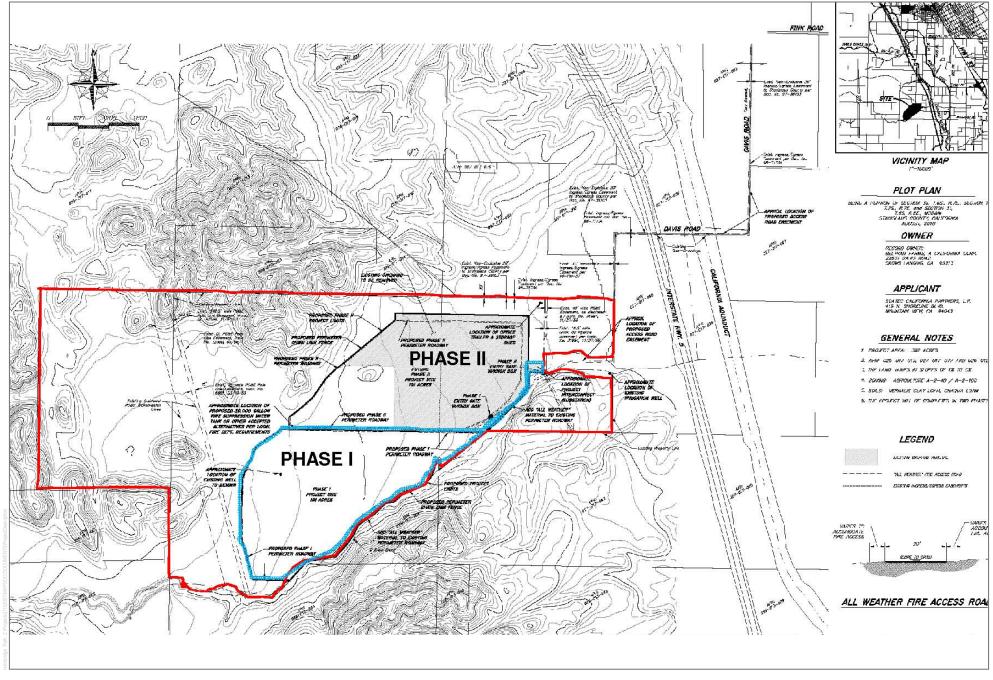
DUDEK 6 0 500 1,000 Feet



SOURCE: Esri Aerial Imagery, NEER 2019

DUDEK 6 0 750 1,500 Feet

FIGURE 4



SOURCE: MVE, Inc. 2011

DUDEK

FIGURE 3

Crow Creek Solar, LLC

700 Universe Boulevard, E5E/JB Juno Beach, Florida 33408

April 27, 2021

Kristen Anaya, Assistant Planner Stanislaus County Planning and Community Development 1010 10th Street, Ste. 3400 Modesto, California 95354

Subject: Paulsell Solar Energy Center – Staff Approval Permit Application

Dear Ms. Anaya:

Crow Creek Solar, LLC is pleased to submit a Staff Approval Permit Application to amend the existing conditional use permit (CUP) for the Scatec Westside Solar Ranch, approved by Stanislaus County in November 2010 and supported by an adopted mitigated negative declaration. The CUP for the Scatec Westside Solar Ranch (No. 2010-09) allows for the construction, operation, and decommissioning of a solar photovoltaic project.

Phase I of the Scatec Westside Solar Ranch is operational and Crow Creek Solar, LLC proposes to develop a solar energy facility similar to the approved Phase II of the Scatec Westside Solar Ranch with up to a 25% increase to the development footprint, as allowed under Chapter 21.96.070 of the Stanislaus County Code. The proposed developmentfootprintwould be contained entirely within the area approved in the existing CUP and analyzed in the 2010 mitigated negative declaration. The project would also include the potential development of additional support facilities, including a collector substation, a battery energy storage system ("BESS"), access roads, fencing, medium-voltage ("MV") stations, an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, an operations and management ("O&M") building, a supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment. Crow Creek Solar, LLC also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to PaulseII Solar Energy Center ("PaulseII Project").

The attached Staff Approval Permit Application includes the following components:

- Completed Stanislaus County Staff Approval Permit Application, including a check in the amount of \$857.00 made payable to Stanislaus County Clerk Recorder for the Staff Approval Permit Application filing fee.
- 2. A signed statement indicating that the project site is not within a State of California Hazardous Waste and Substances Sites List.
- 3. An Addendum to the 2010 Scatec Westside Solar Ranch Initial Study/Mitigated Negative Declaration, which includes the following appendices:

1

- A) Project Description
- B) Air Quality and Greenhouse Gas Emissions Technical Memorandum

April 2021

- C) Traffic Technical Memorandum
- D) Biological Resources Report
- E) Cultural Resources Report
- F) Paleontological Resources Technical Memorandum
- G1) Hazardous Materials Assessment
- G2) Phase I Environmental Site Assessment
- H) Water Supply Assessment

If you have any questions or concerns, please feel free to contact me at (561) 694-3795 or email at Dexter.Liu@nexteraenergy.com. We look forward to ongoing collaborations with Stanislaus County on the Paulsell Solar Energy Center.

Sincerely,

Dexter Liu

Crow Creek Solar, LLC

exter Liv

Att.: 1. Stanislaus County Staff Approval Permit Application

2. State of California Hazardous Waste and Substances Sites List

3. Addendum to the 2010 Scatec Westside Solar Ranch Initial Study/Mitigated Negative Declaration

cc: Patti Murphy, Crow Creek Solar, LLC Scott Castro, Crow Creek Solar, LLC Jennifer Sucha, Dudek

Jerminer Gaoria, Baden

2 April 2021

Attachment 1

Stanislaus County Staff Approval Permit Application



DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

1010 10TH Street, Suite 3400, Modesto, CA 95354

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Form Available Online: www.stancounty.com/planning/applications.shtm

S	T	R	
ZONE			
RECEI	VED		
APPLI(CATION NO.		
RECEI	PT NO.		

STAFF APPROVAL PERMIT APPLICATION

The undersigned hereby makes application for a Staff Approval Permit in accordance with the provisions of the Stanislaus County Code, Chapter 21.100 and any amendments to the same, and submits the following information for consideration:

NAME OF APPLICANT: (a)			
	Name o	f firm or person	
(b)Address	(c)(it)	y, Zip	(d)Phone
(e)E-mail address			
NAME OF PROPERTY OWNER: (a)_	Name o	f firm or person	
(b)Address			
LOCATION OF PROPERTY:	Add	dress	
A DETAILED WRITTEN DESCRIPTIO			
ASSESSMENT NO. & ACREAGE OF	PROPERTY:		
LIST THE NUMBER AND USE OF ALI	L EXISTING STRU	JCTURES ON P	ROPERTY:

- 7. A DETAILED SKETCH SHOWING THE APPROXIMATE LOCATION OF ANY PROPOSED AND EXISTING STRUCTURES ON PROPERTY OR LAND IMPROVEMENTS WITH RESPECT TO ROAD INTERSECTIONS, EXISTING BUILDINGS AND/OR SIGNS.
- 8. IF THE STAFF APPROVAL NEEDS TO BE REFERRED OUT TO OTHER AGENCIES, A FILING FEE IN THE AMOUNT OF EIGHT HUNDRED FIFTY-SEVEN DOLLARS (\$857.00).
 - 8.a. IF THE STAFF APPROVAL IS FOR A SINGLE FAMILY RESIDENCE IN THE AG ZONE, OR THE STAFF APPROVAL DOES NOT NEED TO BE REFERRED TO OTHER AGENCIES, A FILING FEE IN THE AMOUNT OF THREE HUNDRED TWENTY-FOUR DOLLARS (\$324.00).

- 9. A COPY OF THE GRANT DEED WITH A LEGAL DESCRIPTION OF THE PROPERTY (OFTEN REFERRED TO AND INCLUDED AS AN EXHIBIT.)
 - 9.a. IF THE GRANT DEED REFLECTS A TRUST, CORPORATION, LIMITED LIABILITY PARTNERSHIP, OR OTHER HOLDING FOR WHICH ALL INDIVIDUALS WITH AN INTEREST ARE NOT SPECIFICALLY IDENTIFIED BY INDIVIDUAL NAME, THEN A COMPLETE LIST WITH THE COMPLETE NAMES OF ALL PERSONS WITH A PROPERTY OWNERSHIP OR PARTNERSHIP INTEREST IN ANY PROPERTY FOR WHICH THE PROJECT IS BEING REQUESTED SHALL BE PROVIDED. ALL INDIVIDUALS IDENTIFIED ON THE LIST MAY BE REQUIRED TO SIGN THE APPLICATION UNLESS A SIGNATORY HAS BEEN LEGALLY DESIGNATED AND SUCH PROOF IS PROVIDED

Attachment 2

State of California Hazardous Waste and Substances Sites List

MEMORANDUM

To: Patti Murphy and Dexter Liu, Proxima Solar LLC From: Audrey Herschberger and Glenna McMahon, Dudek

Subject: State of California Hazardous Waste and Substances Sites List in Newman,

Stanislaus County

Date: April 23, 2021

cc: Jennifer Sucha, Dudek

The Paulsell Solar Energy Center ("Paulsell Project Site") is located approximately 6 miles south of the City of Patterson, west of Interstate (I-) 5, and southwest of National Aeronautics and Space Administration (NASA) Crows Landing Airport and Test Facility in Newman, California. The Paulsell Project Site can be accessed via Fink Road and then Davis Road, off I-5. The Paulsell Project Site is approximately 232 acres and consists of portions of assessor's parcel numbers (APNs) 025-017-019 and 027-017-090.

The majority of the Paulsell Project Site is currently developed as orchards. A small portion of the Paulsell Project Site along the western border (west of the irrigation canal) is undeveloped land. The Pacific Gas and Electric (PG&E) Company Crow Creek Switching Station is located adjacent to the Paulsell Project Site to the east, which has its own APN (027-017-091). The Paulsell Project Site is bordered by a large solar energy facility (Scatec Westside Solar Ranch Phase I) to the southwest, orchards to the north, agricultural land (row crops) to the southeast, and undeveloped land to the west and northwest. Crows Creek flows east-southwest adjacent to the southeastern border of the Paulsell Project Site.

The California Environmental Quality Act (CEQA) requires review of Section 65962.5 of the California Government Code, also known as the "Cortese List," to identify whether the proposed project would cross or be close to a site known to have had a hazardous materials release or to represent a threat to human health and the environment. Dudek conducted a search of the Cortese List Data Resources on February 9, 2021. This list included the following databases and is available on the California Environmental Protection Agency (CalEPA) website:

https://calepa.ca.gov/sitecleanup/corteselist/

- List of Hazardous Waste and Substances sites from Department of Toxic Substances Control Envirostor database (http://www.envirostor.dtsc.ca.gov/public) (Health and Safety Codes 25220, 25242, 25356, and 116395);
- List of Leaking Underground Storage Tank (LUST) Sites by County and Fiscal Year from the State Water Resources Control Board GeoTracker database (Health and Safety Code 25295);
- List of solid waste disposal sites identified by the California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273[e] and 14 CCR Section 18051);



- List of "active" Cease and Desist Orders and Cleanup and Abatement Orders from the State Water Resources Control Board (Water Code Sections 13301 and 13304); and
- List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by the Department of Toxic Substances Control (DTSC).

Dudek conducted a search of these databases that provide information on Cortese List sites. The Paulsell Project Site was not identified in the any of these Cortese List databases.

Audrey Herschberger, PE

Project Engineer

aherschberger@dudek.com

Glenna McMahon, PE

Principal Engineer

gmcmahon@dudek.com

Attachment 3

Paulsell Solar Energy Center - Addendum to the 2010 Scatec Westside Solar Ranch Initial Study/Mitigated Negative Declaration

Paulsell Solar Energy Center

Addendum to 2010 Scatec Westside Solar Ranch Initial Study/Mitigated Negative Declaration Proposed by Crow Creek Solar, LLC

Prepared for:

Stanislaus County Planning and Community Development

1010 10th Street, Suite 3400 Modesto, California 95354 Contact: Kristen Anaya

Prepared by:



APRIL 2021

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DRAFT ADDENDUM TO MITIGATED NEGATIVE DECLARATION PAULSELL SOLAR ENERGY CENTER

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Acronyms and Abbreviations

Acronym	Definition		
AB	Assembly Bill		
AC	alternating current		
ACM	asbestos-containing building material	asbestos-containing building material	
ALUCP	Airport Land Use Compatibility Plan		
APM	Applicant Proposed Measure		
BESS	battery energy storage system		
BMP	best management practice		
CAAQS	California Ambient Air Quality Standards		
CalEEMod	California Emissions Estimator Model		
CARB	California Air Resources Board		
CBC	California Building Code		
CCR	California Code of Regulations		
CEQA	California Environmental Quality Act		
County	Stanislaus County		
CRHR	California Register of Historic Resources		
CUP	conditional use permit		
DC	direct current		
DPWD	Del Puerto Water District		
EIR	environmental impact report		
EOP	emergency operations plan		
ESA	Environmental Site Assessment		
FAA	Federal Aviation Administration		
Fire Protection District	West Stanislaus County Fire Protection District		
GHG	greenhouse gas		
I	Interstate		
IS	initial study		
kV	kilovolt		
LOS	level of service		
MND	mitigated negative declaration		
MT CO ₂ e	metric ton of carbon dioxide equivalent		
MV	medium-voltage		
MW	megawatts		
NAAQS	National Ambient Air Quality Standards		
NAHC	Native American Heritage Commission		
O&M	operations and maintenance		
OFWD	Oak Flat Water District		
OPR	Governor's Office of Planning and Research		
PCE	passenger car equivalent		
PG&E	Pacific Gas and Electric Company		
PM ₁₀	particulate matter less than or equal to 10 microns in diameter		
PV	photovoltaic		
ROG	reactive organic gas		
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy		
SCADA	supervisory control and data acquisition		
SJVAPCD	San Joaquin Valley Air Pollution Control District		
StanCOG	Stanislaus Council of Governments		
SWPPP	stormwater pollution prevention plan		
TAC	toxic air contaminant		
VMT	vehicle miles traveled		
WEAP	worker environmental awareness program		
WSA	Water Supply Assessment		
		2017	

1 Introduction

This environmental document is an addendum to the Initial Study / Mitigated Negative Declaration ("2010 IS/MND") for the Scatec Westside Solar Ranch ("Approved Project"). The Approved Project IS/MND was prepared by the Stanislaus County ("County") Planning and Community Development Department pursuant to the California Environmental Quality Act ("CEQA"), California Public Resources Code Section 21000 et seq.; circulated for public review and comment; and approved by the County Planning Commission in November 2010.

The conditional use permit for the Scatec Westside Solar Ranch (No. 2010-09), approved in November 2010 ("2010 CUP"), allows for the construction, operation, and decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre project site ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts ("MW") on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar, LLC ("Crow Creek Solar") also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project will be constructed within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND. The Original Project Site is shown on Figure 1, Project Location, and Figure 2, Vicinity Map.

The proposed Paulsell Project includes a solar energy facility similar to the Approved Project with up to a 25% increase to the Original Footprint, up to 261.25 acres ("Paulsell Project Site"), as allowed under Chapter 21.96.070 of the Stanislaus County Code, which will be contained entirely within the area analyzed for the Original Project Site in the 2010 MND. The Paulsell Project includes the potential development of additional support facilities, including a collector substation, a battery energy storage system ("BESS") for the Paulsell Project, access roads, fencing, medium-voltage ("MV") stations, an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, an operations and maintenance ("O&M") building, a supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment. The development area would accommodate these additional support facilities. Other than the access roads and fencing, these ancillary facilities were not evaluated in the 2010 MND, nor approved in the 2010 CUP; however, potential inclusion of these ancillary facilities, as well as other modifications to the proposed solar facility, will not increase the severity of existing effects to significant levels, or result in any new significant effects.

This addendum to the 2010 IS/MND addresses modifications to the Approved Project proposed by Crow Creek Solar. This addendum has been prepared in accordance with CEQA Guidelines Sections 15162 and 15164. The County is the lead agency for the environmental review of this addendum.

1.1 Purpose of the Addendum to the Initial Study/Mitigated Negative Declaration

CEQA recognizes that one or more of the following changes may occur between the date an MND is adopted and a project being fully implemented:

- 1. The scope of the project may change.
- 2. The environmental setting in which the project is located may change.
- 3. Certain environmental laws, regulations, or policies may change.
- 4. Previously unknown information may arise.

CEQA requires a lead agency to evaluate these changes and determine whether they are significant or otherwise substantially affect the conclusions in a previously certified (or adopted) environmental document.

The CEQA Guidelines (Section 15162) describe a process for determining whether a subsequent MND is warranted:

- a) When an EIR [environmental impact report] has been certified or a negative declaration is adopted for a project, no subsequent MND shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:
 - Substantial changes are proposed in the project which will require major revisions of the previous EIR
 or negative declaration due to the involvement of new significant environmental effects or a substantial
 increase in the severity of previously identified significant effects;
 - 2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or Declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified effects; or
 - 3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the Negative Declaration was adopted, shows any of the following:
 - A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
 - B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;
 - C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
 - D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous MND would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

The CEQA Guidelines (Section 15164[e]) state that a brief explanation of the decision not to prepare a subsequent EIR (or MND) pursuant to 15162 should be included in an addendum to an EIR (or MND), the lead agency's findings on the project, or elsewhere in the record. The explanation must be supported by substantial evidence. The following substantial evidence is detailed in Section 7, Determination, and supports the finding that a subsequent MND is not required for the Paulsell Project:

- 1. No Substantial Project/Impact Changes (14 California Code of Regulations ["CCR"] 15162[a][1]). There are no substantial changes proposed in the Paulsell Project that will require major revisions to the previous 2010 IS/MND resulting in new significant environmental effects or a substantial increase in the severity of previously identified significant effects.
- 2. **No Substantial Change in Circumstances (14 CCR 15162[a][2]).** No substantial changes to the circumstances regarding the Paulsell Project have taken place that would require major revisions of the previous 2010 IS/MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.
- 3. No New Information of Substantial Importance (14 CCR 15162[a][3]). There is no new information of substantial importance that was not known or could not have been known at the time of the previous 2010 Scatec Westside Solar Ranch IS/MND that shows the Paulsell Project would have one or more significant effects not discussed in the previous 2010 IS/MND or that significant effects previously examined would be substantially more severe than shown in the previous 2010 IS/MND.

Based on the evaluation, the addendum concludes that the Paulsell Project would not result in any new significant environmental effects or a substantial increase in the severity of previously identified impacts described in the 2010 IS/MND. This addendum also describes the existing conditions at the Paulsell Project Site and vicinity to document that there have been no substantial changes in the circumstances described in the 2010 IS/MND. For the reasons listed above and elaborated in Section 7, Determination, the changes proposed do not meet the criteria for preparing a supplemental or subsequent IS/MND.

This addendum describes the Paulsell Project, presents the results of updated surveys showing conditions at the Original Project Site have not changed, and evaluates the potential environmental effects of the proposed changes to the Approved Project to show that the Paulsell Project would not result in significant new environmental impacts or increase the severity of those identified in the 2010 IS/MND.

Revisions to the CEQA Guidelines

Since the Approved Project's 2010 IS/MND was released for public review, the state has adopted updates to the CEQA Guidelines to add efficiency and clarity to aspects of the guidelines and to incorporate recent case law and legislation that had not yet been reflected in the text of the guidelines. This addendum includes analyses related to the updated CEQA Guidelines that were not yet adopted at the time the previous MND was prepared for topics including Energy (see Section 5.6), Tribal Cultural Resources (see Section 5.5), and Wildfire (see Section 5.19).

2.1 Project Location

The Paulsell Project is located off Davis Road in unincorporated Stanislaus County, southwest of the Fink Road Sanitary Landfill operated by Stanislaus County, west of Interstate 5 ("I-5") and the California Aqueduct, in the Newman/Crows Landing area. The Paulsell Project would be located on the Original Project Site, which encompasses four Assessor's parcels with a combined acreage of approximately 1,132 acres. Each of the Assessor's parcels is privately owned and listed in Table 1, below; the existing PG&E Crow Creek Switching Station has its own Assessor's parcel (027-017-091), which is also listed in Table 1 below.

Table 1. Assessor's Parcel Numbers ("APNS")

APNs		
025-017-019	027-017-090	
027-017-091	026-012-003	

2.2 Summary of the Approved Project - Scatec Westside Solar Ranch

The existing CUP for the Scatec Westside Solar Ranch ("Approved Project") (No. 2010-09) was approved by the County in November 2010 and supported by an Initial Study and MND to allow for the construction, operation, maintenance, and decommissioning of a Solar PV energy facility known as the Scatec Westside Solar Ranch.

The Initial Study identifies two geographically distinct phases for the Approved Project. Phase I has been constructed and is currently in operation. It was estimated that both phases would take approximately 8 months each to

construct. The Scatec Westside Solar Ranch Proposed Phasing Plan, shown on Figure 3, delineates the Original Project Site and shows Phase I (operational) and Phase II (approved), included as part of the Original Footprint. A summary of the Approved Project phasing areas is provided below in Table 2.

Table 2. 2010 Scatec Westside Solar Ranch IS/MND Proposed Phasing

Phase	Acreage
1	191
II	191
Total	382

Source: Stanislaus County 2010.

As shown on Table 2, and the Proposed Phasing Plan, the Approved Project included a total disturbance area of 382 acres.

The following facilities for the Approved Project are currently operational: Scatec Westside Solar Ranch Phase I and PG&E's Crow Creek Switching Station, both of which are located within the Original Project Site.

3 Paulsell Solar Energy Center

The proposed Paulsell Project includes a solar energy facility similar to the Approved Project. As shown on Table 2 above, the Original Footprint for the Approved Project was established at 382 acres, with 191 acres for each Phase. However, Scatec Westside Solar Ranch Phase I is currently operational occupying only 173 acres; consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres, as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed. This increase will be contained entirely within the area analyzed for the Original Project Site in the 2010 MND. The Paulsell Project includes the potential development of additional support facilities not originally included as part of the Approved Project, including a collector substation, a BESS, MV stations, an overhead transmission line that would connect directly into the existing PG&E Crow Creek Switching Station, an O&M building, a SCADA system, and other ancillary facilities or equipment.

For the purposes of review under CEQA, the County as the lead agency has identified the proposed revisions that are described in this section to be the subject of this addendum. Crow Creek Solar has submitted a Staff Approval Permit Application in accordance with Stanislaus County Code, Chapter 21.100, to amend the CUP approved in November 2010. The proposed changes are summarized in Table 3, which is followed by a detailed description of the proposed Paulsell Project.

Table 3. Proposed Revisions to the Approved Project

Description	Paulsell Solar Energy Center (Proposed Project) Proposed Change	Scatec Westside Solar Ranch (Approved Project) Previous Project Description
Project Name	Paulsell Solar Energy Center	Scatec Westside Solar Ranch
Project Site	Approximately 1,132-acre Project Site. (Unchanged)	Approximately 1,132-acre Original Project Site
Development Footprint	Up to 261.25 acres is permitted per County Code Chapter 21.96.070. However, due to site constraints, approximately 232 acres would be	Approximately 382 acres (191 acres each for Phase I and Phase II) all within Original Project Site. Phase I is operational, occupying 173 acres. 209 acres remain for the development of Phase II.

Table 3. Proposed Revisions to the Approved Project

Description	Paulsell Solar Energy Center (Proposed Project) Proposed Change	Scatec Westside Solar Ranch (Approved Project) Previous Project Description
	developed, all within the Original Project Site.	
Solar Energy Facility	Fixed racking or a single-axis tracking system	Single-axis tracking system
Energy Storage	A BESS dedicated to the Paulsell Solar Energy Center	No energy storage systems were analyzed/permitted at part of the Scatec Westside Solar Ranch
On-site Collector Substation	On-site collector substation adjacent to the existing PG&E Crow Creek Switching Station	On-site substation (existing Crow Creek Switching Station)
Interconnection to PG&E	An overhead transmission line that will connect directly into the existing PG&E Crow Creek Switching Station, adjacent to the eastern boundary of the Paulsell Project Development Footprint.	An overhead transmission line to connect to the existing PG&E Salado-Newman transmission line, located west of the Scatec Westside Solar Ranch Development Footprint.
Perimeter Fence	Perimeter Fence: Approximately 6 to 8 feet high along entire perimeter	Perimeter Fence: Approximately 6 feet high along entire perimeter
Construction Schedule	Approximately 8 months (Unchanged)	Approximately 8 months
Traffic	Peak Daily Construction Trips: 300	Peak Daily Construction Trips: Not specified
Water Use	Construction: 60 acre-feet Operations and maintenance: 20 acre-feet per year	Not specified
Operations and Maintenance	O&M building	O&M monitoring in on-site trailer.

Note: PG&E = Pacific Gas & Electric.

4 Paulsell Project Description

4.1 Development Footprint

The Original Footprint for the Approved Project was established at 382 acres, and Scatec Westside Solar Ranch Phase I is currently operational and occupies 173 acres; consequently, 209 acres remain under the "Remaining Original Footprint." The Paulsell Project will include up to a 25% increase in size from the Remaining Original Footprint, up to approximately 261.25 acres. This increase will be contained entirely within the area analyzed for the Original Project Site or Approved Project and is intended to allow for developmental and operational flexibility. For example, certain areas that were approved as part of the Original Footprint are unsuitable for development due to unexpected site constraints, such as the future access roads to service Western Area Power Administration's San Luis Transmission Project, or environmental constraints and unforeseen encumbrances ("Approved Constraint Areas"), such as steep slopes. Crow Creek Solar anticipates to substitute out these Approved Constraint Areas (approximately 0.66 acres) from the Paulsell Project footprint for other lands within the Original Footprint on a 1:1 ratio. These acreages will be subject to change as the development of the Paulsell Project progresses. The Paulsell Project is designed to generate up to 20 MW of electricity and will require additional support facilities consisting of access roads, fencing, MV stations, a BESS, an overhead transmission line that would connect directly into the existing PG&E Crow Creek Switching Station, a collector substation, O&M building, SCADA system, and other ancillary facilities

or equipment. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the CUP and adopted MND. Other than the access roads and fencing, these support facilities were not evaluated in the 2010 MND, nor approved in the 2010 CUP; however, potential inclusion of these support facilities, as well as other modifications to the proposed solar facility, will not increase the severity of existing effects to significant levels, or result in any new significant effects. The final nameplate capacity of the Paulsell Project will be established at the detailed engineering stages. A description of the Paulsell Project is included below, and shown on Figure 3, Development Area and Project Components.

4.2 Solar Energy Facility

Solar energy would be captured by an array of Solar PV panels mounted to fixed racking or to a single-axis tracking system. The total number of panels used would depend on the final selection of the actual panels to be used. The panels would be arranged in series to effectively increase output voltage to approximately 1,500 volts. These series of panels are called "strings" and provide the basic building block of power conversion in the solar array. The strings are combined in the solar field through an aboveground or belowground direct current ("DC") collection system. Then, they are collected together at the MV stations, where the energy is converted to alternating current ("AC") and then stepped to an intermediate voltage, typically 34.5 kilovolts ("kV"). The specific Solar PV panel technology will be selected at the detailed engineering stages as the Project progresses.

The panels will be aligned in rows to be spaced based on specific design criteria and will be mounted on the racking systems. The type of anchoring system and/or foundation supports for the racking structures will be determined based on a preliminary geotechnical assessment, but it is anticipated that the racks will be supported by screw or driven piles into the ground. A fixed racking system would be stationary, with panels mounted to tilt to the south. If used, the tracking system would rotate slowly throughout the day at a range of +/- 60 degrees facing east to west to stay perpendicular to the incoming solar rays so production can be optimized. The number of panels per tracker will depend on final configuration and, at its highest rotated edge, would have a maximum height, which will be defined by the topography of the terrain and the dimensions of the chosen panels. The minimum clearance from the lower edge of the panel to ground level is approximately 18 to 24 inches but will be subject to change pending final design.

The MV stations will house multiple components to perform the following three critical functions for the solar plant: (1) DC power is collected in a central location; (2) inverters convert the DC power into AC power; and (3) MV transformer converts low-voltage AC power created by the inverters to MV AC power. The output power from the MV stations is then fed to the AC collection system through an aboveground or belowground collection system. This AC collection system would deliver the electricity to the existing PG&E Crow Creek Switching Station, where the voltage would be stepped up to the interconnection voltage of 60 kV. The number of MV stations to be used will be determined at the detailed engineering stages.

4.3 Battery Energy Storage System

A BESS dedicated to the Paulsell Project is proposed within the Original Project Site. The BESS would be dispersed throughout the site and connected to the PV arrays via a DC-coupled system. Individual battery units would be colocated at each inverter and transformer unit within the individual array blocks throughout the site. The battery units would be enclosed in individual outdoor-rated containers to house the batteries, cooling system, small step-down transformer, fire protection equipment, and other ancillary equipment. The battery equipment is accessible from the outside, so the containers will remain unoccupied. The BESS would be unmanned and include 24/7 remote operational control and monitoring.

4.4 Project Collector Substation

The collector substation would be the termination point of the collection system of 34.5-kV AC electricity. The output of the solar field would be passed through a final interconnection step-up transformer to convert it to the grid tie voltage at 60 kV. The open-air Project substation is anticipated to be constructed adjacent to the existing PG&E Crow Creek Switching Station located at the eastern boundary of the Original Project Site. The footprint of the onsite collector substation would be approximately 10 acres in size. The specific size and equipment for the substation will be finalized at the detailed engineering stages as the Project progresses. It will be assumed that the local distribution utility will have nearby suitable distribution lines to provide the Project location with auxiliary power as required. If no distribution supply is available nearby, the requirements for an auxiliary generator will be determined once the layout of the solar facility is reviewed.

4.5 Transmission Line to Existing Crow Creek Switching Station

The proposed Paulsell Project would connect its collector substation directly into the existing PG&E Crow Creek Switching Station via an overhead transmission line. Energy from the Paulsell Project will have the potential to be stored in dedicated batteries prior to being stepped-up at the PG&E Crow Creek Switching Station.

4.6 Operation and Maintenance

The O&M building would be approximately 2,500 square feet and is expected to be located within the Original Footprint. It is anticipated that a maximum of three permanent staff employees would use the O&M building for ongoing facility monitoring, equipment storage, and repairs. The O&M building is expected to be a prefabricated commercial structure. Permanent restroom facilities with septic tanks and/or portable toilets would be used for sanitary purposes at the O&M building, and a permanent water source in the form of trucked water, well water, or bottled water would be provided for the staff. The proposed building would include the requisite number of parking spaces for staff members' vehicles and O&M equipment. It is likely that temporary office buildings (e.g., portable trailers) will be required during construction.

The Paulsell Project operations would also be monitored remotely through the SCADA system, and periodic inspections and maintenance activities would occur.

4.7 Perimeter Fence, Signage, and Lighting

The perimeter of the Paulsell Project would be enclosed by a 6- to 8-foot-high perimeter security fence. Access into the Paulsell Project would be provided through the existing 20-foot-wide paved Davis Road from Fink Road to its western terminus. The main purpose of the fence is to prevent unauthorized access to the site. Primary access to the Paulsell Project would be provided through an access gate along Davis Road.

In accordance with Condition of Approval 5 of the 2010 Scatec Westside Solar Ranch CUP, a sign plan for all proposed on-site signs indicating the location, height, area of the signs, and message would be approved by the planning director or his appointed designee.

A small sign would be installed at the site main entry. The sign would include language similar to the following: "Paulsell Solar Energy Center, 22601 Davis Road." In addition, required safety signs would be installed on the fence near the site entrance to identify high voltage and provide information for emergency services within the facility.

All exterior lighting would be designed to aim down and toward the site to provide adequate illumination without a glare effect. Lighting would be only in areas where it is required for safety, security, or operations and would include shielding as necessary to minimize illumination of the night sky or potential impacts to surrounding viewers.

4.8 Construction

Construction would be primarily composed of the following activities:

- Site Preparation: The site would be prepared for construction. For example, rough grading may be
 performed where required to accommodate the support structures and access roads. Retention basins, if
 required, would be created for hydrologic control. Access roads would be gravel or aggregate base
 depending on the final site geotechnical report. A temporary staging area would be constructed to hold
 materials and construction equipment.
- **Fencing:** A 6- to 8-foot-tall perimeter security fence would be installed. Trash would be removed from the fencing as required.
- Solar Field: The solar arrays would be installed in three steps: (1) installation of foundations, (2) construction of the racking and tracking systems, and (3) attachment of modules.
- **Electrical Work:** A substation pad for the step-up transformer would be poured, followed by the installation of the MV stations, wiring of the modules through combiner boxes, and construction of the project substation and grid interconnection. The MV stations would sit on concrete foundations or driven piles, pending final design.

The Paulsell Project is anticipated to be built over an approximately 8-month period from the onset of site preparation activities through testing and commissioning of the facility. It is anticipated that construction crews will work 8 or 10 hours per day, with work occurring Monday through Friday. Overtime and weekend work would be used only as necessary to meet scheduled milestones or accelerate schedule and would comply with applicable California labor laws. Primary construction activities and durations are presented in Appendix A, Project Description Details, Table 3. The activities shown in Table 3 would overlap in certain phases.

As part of construction for the proposed Paulsell Project, Applicant Proposed Measure ("APM") 1 would be implemented in the event inadvertent discoveries of resources are made during construction activities.

APM-1: Worker Environmental Awareness Program

A worker environmental awareness program ("WEAP") would be prepared for construction contractors and all onsite personnel. WEAP training would cover the potential sensitive environmental resources that may be found on site. The WEAP would educate and instruct on-site personnel to avoid harassment and disturbance of wildlife, especially during reproductive (e.g., courtship and nesting) seasons, as well as to avoid all cultural and paleontological resources. All on-site personnel would be required to attend the WEAP training prior to working at the job site. Environmental professionals will conduct WEAP training throughout construction for all Project personnel prior to working on site.

Construction personnel would be provided detailed information about the Paulsell Project Site including permit conditions, reports, plans, maps, and any other relevant Project documents. Information and maps will include, but not be limited to, cultural resource (including Tribal Cultural Resource), paleontological resource, and biological resource buffers such as cultural resource sites and sensitive geologic formations including the Tulare Formation, Kreyenhagen Shale, and Tesla Formation.

If an inadvertent discovery of cultural, tribal cultural, and/or paleontological materials (e.g., unusual amounts of shell, animal bone, bottle glass, ceramics, structure/building remains) is made during Project-related construction activities, ground disturbances in the area of the find shall be halted; the discovered resource shall be roped off; and the qualified professional archaeologist and/or paleontologist shall be notified regarding the discovery.

Cultural Resource Finding: In the event of a cultural resource discovery, a qualified archaeologist shall determine whether the resource is potentially significant as per the California Register of Historic Resources ("CRHR") and develop appropriate treatment measures.

Tribal Cultural Resource Finding: If the potential resource(s) appears to be a Tribal Cultural Resource (as defined by California Public Resources Code Section 21074), the qualified professional archaeologist, in conjunction with the County, would determine the appropriate tribal contact to notify of the finding. The County will notify Native American tribes that have been identified by the Native American Heritage Commission ("NAHC") to be traditionally and culturally affiliated with the geographic area of the Project. If the unanticipated resource is archaeological in nature, appropriate management requirements shall be implemented as also required by previously adopted Mitigation Measure No. 11. If the County determines that the potential resource appears to be a Tribal Cultural Resource (as defined by California Public Resources Code Section 21074), any affected tribe would be provided a reasonable period of time to conduct a site visit and make recommendations regarding future ground disturbance activities as well as the treatment and disposition of any discovered Tribal Cultural Resources. Depending on the nature of the potential resource and tribal recommendations, review by a qualified archaeologist may be required as described in previously adopted Mitigation Measure No. 11.

Paleontological Resource Finding: In the event of a paleontological resources discovery, the paleontologist shall determine whether the resource is potentially significant as per the Society of Vertebrate Paleontology 2010 guidelines for mitigation and develop appropriate treatment measures.

Additional details related to construction of the Paulsell Project are provided in Appendix A, Section 3.7.

4.9 Traffic

The peak daily construction employee count would be approximately 85, during the peak phase of construction. Construction traffic estimates are provided in Appendix A, Section 3.8. As delineated in Appendix A, Section 3.8, there would be up to 28 vendor truck trips per day (56 one-way trips) and 3 haul trucks (6 one-way trips) at peak construction activity (site preparation, trenching, system installation, energy storage system, and interconnection system work overlap). A total of up to 300 trips per day are anticipated during peak construction activities.

Delivery of material and supplies would reach the site through on-road truck delivery via I-5, Fink Road, and Davis Road. It is estimated that a total of up to 2,760 truck trips are required to complete the Paulsell Project. It is estimated that there would be an average of 120 truck deliveries per month (approximately 6 per work day), with a peak number of truck deliveries of 260 deliveries per month (approximately 13 per work day) plus 1 miscellaneous delivery, equaling to a peak truck trip count of 14 per workday.

Operation of the Paulsell Project would include a maximum of three permanent staff employees and solar panel washing is expected to occur one to four times per year. Therefore, the Paulsell Project would generate nominal operational traffic trips.

Additional details related to construction and operational trips are provided in Appendix A, Section 3.8.

4.10 Water Use

The water demand for the Paulsell Project is based on the anticipated disturbance footprint because the primary water demand associated with construction is dust control. The average construction water demand for similar projects is 0.24 acre-feet per year. This is a conservative planning-level estimate that would accommodate for additional details as the Project design is finalized. Based on the water demand factor of 0.24 acre-feet per acre and the Paulsell Project footprint of 239 acres, the construction water demand is estimated to be 57.4 acre-feet over an approximately 8-month period. This number has been rounded to the nearest 10 acre-feet (60 acre-feet).

During Project operations, solar panel washing is expected to occur one to four times per year. While Crow Creek Solar only expects to wash the Solar PV panels once per year, the panels may need to be washed more frequently (up to four times per year) based on site conditions. Conditions that may necessitate increased wash requirements include unusual weather occurrences, fires, local air pollutants, and other similar conditions.

It is anticipated the water demand for an O&M facility would be equivalent to the water demand of a rural domestic home (approximately 0.5 acre-feet per year). A small ongoing water demand of 0.6 acre-feet per year for miscellaneous needs (e.g., periodic site maintenance, fire suppression) is also anticipated for the O&M water demand. The total O&M water demand is estimated at 20 acre-feet per year.

Additional details related to water demand are provided in Appendix A, Section 3.9.

4.11 Decommissioning

In general, the Solar PV system and BESS would be recycled at the expiration of the Paulsell Project's life. Panels typically consist of silicon, glass, and a metal frame. Tracking systems (not including the motors and control systems) typically consist of aluminum and steel. Batteries include lithium-ion, which degrades but can be recycled or repurposed. Site structures would include steel or wood and concrete. All of these materials can be recycled. Concrete from deconstruction would be recycled. Local recyclers are available. Metal and scrap equipment and parts that do not have free flowing oil may be sent for salvage.

Additional details related to decommissioning are provided in Appendix A, Section 3.10.

5 Environmental Analysis

This section describes the environmental impacts of the proposed Paulsell Project in the context of the original 2010 IS/MND. Each environmental issue area includes analysis of the Paulsell Project compared to the Approved Project. The checklist has been modified to summarize the impact conclusions of the 2010 IS/MND for the Approved Project compared to the impact conclusions associated with the proposed Paulsell Project. Impact levels for the Paulsell Project include the following:

- No New Impact/No Impact
- Less than Significant with Previous Mitigation
- Potential New or Increased Impact
- Reduced Impact

5.1 Aesthetics

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
I. Aesthetics – Except as provided in Public Res	ources Code Section 21099,	would the project:
 a) Have a substantial adverse effect on a scenic vista? 	No Impact	No New Impact
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	Less Than Significant Impact	No New Impact
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	Less Than Significant Impact	No New Impact
d) Create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area?	Less Than Significant Impact	No New Impact

a., b. No New Impact. As discussed in Section I of the 2010 IS/MND, aside from I-5, an officially designated state scenic highway, no scenic vistas or additional scenic resources are present at or in the vicinity of the Original Project Site. Construction activities associated with the Approved Project would be temporary and short term and would affect views for motorists for a finite amount of time (approximately 10 months). During operations, the Approved Project would be approximately 0.5 miles west of I-5 at the northern end and approximately 1.5 miles west of I-5 at the southern end. Average existing grade of the Paulsell Project Site is approximately 260 feet above mean sea level, average grade between I-5 and the Project is approximately 320 feet above mean sea level and the average grade of I-5 along the Project frontage is approximately 240 feet above mean sea level. The view of the Paulsell Project Site from I-5 is significantly diminished or nonexistent with the average grade between the Project and I-5 at a higher elevation.

The proposed Paulsell Project would result in additional components compared to what was analyzed in the Approved 2010 IS/MND. These components include the newly proposed BESS, O&M building, collector substation, an overhead transmission line, and other ancillary facilities or equipment that will connect directly into the existing PG&E Crow Creek Switching Station. These facilities would introduce new physical components to the visual landscape, including the proposed overhead transmission line, which would be approximately 150 feet in height. However, viewers driving through the area would receive temporary, fleeting or nonexistent views of the proposed Paulsell Project due to the high speed at which vehicles pass the Paulsell Project Site on I-5. Additionally, the closest portion of the Paulsell Project Site is approximately 0.5 miles west of I-5, and views of the Paulsell Project Site are significantly diminished or nonexistent due to intervening topography as described above. Therefore, due to the distance of these facilities from I-5, the speed at which motorists would be traveling along I-5, intervening topography, and the presence of existing orchard trees between I-5 and the Paulsell Project Site, long-standing or substantial views of these Project components would not be available to motorists driving on I-5. Further, the increased development footprint would appear similar to the Approved Project for viewers driving along I-5, if at all visible. Finally, as discussed in the 2010 IS/MND, the Paulsell Project would be decommissioned and removed upon

expiration of the solar facility's useful life. Therefore, the new components associated with the Paulsell Project would not result in a substantial adverse effect on a scenic vista or substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway. Therefore, no new impact would occur.

- No New Impact. The Project Site's location would be considered a non-urbanized area, as it fails to meet C. the criteria of an urbanized area per CEQA (California Public Resources Code Section 21071). As discussed in the 2010 IS/MND and in thresholds (a) and (b) above, views of the Paulsell Project Site are significantly diminished or nonexistent due to intervening topography. This would minimize changes in the visual character of the Original Project Site and surroundings. The proposed Paulsell Project components, including the BESS, 0&M building, collector substation, and overhead transmission line would be located approximately 0.5 miles west of I-5 and would likely not be visible due to this distance and intervening topography. Although the Paulsell Project would add proposed steel transmission structures associated with the transmission line, which would be approximately 150 feet in height, viewers driving through the area would receive temporary, fleeting, or nonexistent views of the proposed Paulsell Project due to the high speed at which vehicles pass the Paulsell Project Site on I-5, distance and intervening topography, and presence of existing orchard trees between the Paulsell Project Site and I-5. Thus, long-standing or substantial views of these Project components would not be available to motorists driving on I-5. Additionally, the increased development footprint would appear similar to the Approved Project, if at all visible. The newly proposed Project components would not add substantial visual changes to the Project area beyond what was analyzed in the 2010 IS/MND. The visual character of the Paulsell Project Site would also not be permanently changed, as Paulsell Project components would be decommissioned and removed upon expiration of the solar energy farm's equipment life. Therefore, the proposed Paulsell Project would continue to be consistent with the character and quality of views along I-5, similar to the Approved Project. No new impact would occur.
- d. No New Impact. Per the 2010 IS/MND, the Approved Project would require minimal perimeter nighttime security lighting, which would be motion activated and directed downward and shielded to avoid light spillage. Additionally, because the Solar PV panels would be manufactured with an anti-reflective coating, glare would be minimal. Similar to the Approved Project, the Paulsell Project would also require minimal safety and security lighting that would be operated via use of motion sensor detectors for completing emergency repairs as needed during the evening hours.

The newly proposed collector substation and O&M building would feature some lighting similar to the lighting included in the Approved Project for security purposes. PG&E may also need to install Federal Aviation Administration ("FAA") obstruction lighting on some or all of the new transmission structures associated with the overhead transmission line, in accordance with FAA requirements. However, these new sources of lighting associated with the proposed Paulsell Project would be minimal, and all exterior lighting shall be designed (aimed down and toward the site) to provide adequate illumination without a glare effect. This shall include, but not be limited to, the use of shielded light fixtures to prevent skyglow (light spilling into the night sky) and the installation of shielded fixtures to prevent light trespass (glare and spill light that shines onto neighboring properties). Therefore, the Paulsell Project would not result in a new source of lighting that would affect day or nighttime views. Lastly, similar to the Approved Project, the Solar PV panels proposed under the Paulsell Project would be manufactured with an anti-reflective coating that would further eliminate glare. No new impact would occur.

5.2 Agricultural and Forestry Resources

nature, could result in conversion of Farmland, to non-agricultural use or

conversion of forest land to non-forest use?

Approved 2010 IS/MND Paulsell Project IS/MND **Impact Conclusion** Addendum Impact Conclusion II. Agriculture and Forestry Resources - In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project: a) Convert Prime Farmland, Unique Farmland, Less Than Significant Impact No New Impact or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? Less Than Significant Impact b) Conflict with existing zoning for agricultural No New Impact use, or a Williamson Act contract? c) Conflict with existing zoning for, or cause No Impact No New Impact rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))? d) Result in the loss of forest land or conversion No Impact No New Impact of forest land to non-forest use? e) Involve other changes in the existing Less Than Significant Impact No New Impact environment which, due to their location or

a., b. No New Impact. As discussed in Section II of the 2010 IS/MND, the Original Project Site is designated as Prime Farmland by the California State Department of Conservation Farmland Mapping and Monitoring Program and is zoned A-2 (Agriculture). The expanded development footprint associated with the proposed Paulsell Project would affect approximately 70.25 additional acres of Prime Farmland within the Original Project Site boundary, compared to the Approved Project. The 2010 Scatec Westside Solar Ranch CUP for the Approved Project also allows development of public utilities, such as the proposed solar farm.

Similar to the Approved Project, the proposed Paulsell Project would not constitute a "permanent" conversion, and Project development would not substantially degrade soil conditions within the Paulsell Project Site. The proposed Paulsell Project would cease operations upon expiration of the solar farm's equipment life. At that time, the solar energy farm equipment and facilities would be dismantled; materials would be recycled to the greatest extent feasible; and the land would be restored to pre-construction conditions (agriculture). Additionally, areas designated as Prime Farmland within the Paulsell Project Site would no longer be economically viable for use as agricultural land due to limited long-term water supplies within the Oak Flat Water District ("OFWD"), as discussed in the 2010 IS/MND.

For these reasons, impacts associated with conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance would remain less than significant, and no new impact would occur.

Further, as discussed in the 2010 IS/MND, the Original Project Site is not located on land that is currently under a Williamson Act contract. Therefore, the proposed Paulsell Project would also not conflict with an existing Williamson Act contract. Because the conversion of farmland would not be permanent and no Williamson Act contract exists, impacts would remain less than significant, and no new impact would occur.

- c, d. No New Impact. As discussed in Section II of the 2010 IS/MND, no forest land or timberland are present on the Original Project Site and the site is not zoned for forest land or timberland production. As such, the similar to the Approved Project, the proposed Paulsell Project would have no impact on forest land or timberland, consistent with the 2010 IS/MND. No new impact would occur.
- e. No New Impact. The proposed Paulsell Project would result in conversion of up to 261.25 acres of active and inactive farmland within the Paulsell Project Site to utility infrastructure land use for the life of the solar power equipment.

As described in the response to threshold (a) and in Section II of the 2010 IS/MND, the OFWD does not currently have an adequate sustainable water supply for agricultural contractors within the service area. Additionally, under both the Approved Project and the Paulsell Project, the conversion would not be permanent, and Crow Creek Solar would decommission the solar facility upon expiration of the solar energy farm's equipment life and restore the land to pre-construction conditions (agriculture). As such, impacts associated with conversion of agricultural land uses would remain less than significant, consistent with the 2010 IS/MND. No new impact would occur.

5.3 Air Quality

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
III. Air Quality - Would the project:		
 a) Conflict with or obstruct implementation of the applicable air quality plan? 	Less Than Significant Impact	No New Impact
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	Less Than Significant Impact	No New Impact
c) Expose sensitive receptors to substantial pollutant concentrations?	Less Than Significant Impact	No New Impact
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	Less Than Significant Impact	No New Impact

a. No New Impact. As discussed in Section III of the 2010 IS/MND, the Approved Project would not exceed any of the significance thresholds of the San Joaquin Valley Air Pollution Control District ("SJVAPCD").

As discussed in Appendix B of this Addendum, and similar to the Approved Project, the Paulsell Project would not conflict with existing land uses or result in population growth. In addition, the Paulsell Project would not result in a long-term increase in the number of trips or increase the overall vehicle miles traveled

("VMT") in the area. Haul truck, vendor truck, and worker vehicle trips would be generated during the proposed construction activities but would cease after completion of construction. In accordance with Condition of Approval 31 of the Approved Project, the Paulsell Project would comply with applicable SJVAPCD rules and regulations, such as Regulation VIII (Fugitive PM₁₀ Prohibitions), Rule 4102 (Nuisance), Rule 4601 (Architectural Coatings), Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations), Rule 8021, and IX (Mobile and Indirect Sources). The Paulsell Project would also include all relevant mitigation requirements that are established in the SJVAPCD Air Quality Attainment Plan. Therefore, upon compliance with such rules and regulations, the Paulsell Project would not conflict with or obstruct the SJVAPCD's Air Quality Attainment Plan (SJVAPCD 2017). Therefore, impacts would remain less than significant, and no new impact would occur.

No New Impact. As discussed in Section III of the 2010 IS/MND, the Approved Project would result in b. temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment and soil disturbance) and off-site sources (i.e., on-road haul trucks, delivery trucks, and worker vehicle trips). However, as described under Threshold (a) above and in accordance with Condition of Approval 31 of the Approved Project, the Paulsell Project would also be required to comply with SJVAPCD rules and regulations, submit an Air Impact Assessment application to SJVAPCD, and pay any applicable off-site mitigation fees before issuance of the first building permit. Additionally, in accordance with Condition of Approval 33, construction activities associated with the Paulsell Project would be required to comply with standardized dust controls adopted by SJVAPCD. Finally, in accordance with Condition of Approval 34, the Paulsell Project would be required to comply with the following rules, if applicable: Regulation VIII (Fugitive PM10 Prohibitions), Rule 4102 (Nuisance), Rule 4601 (Architectural Coatings), and Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations). As directed in Condition of Approval 34, this list is neither exhaustive nor exclusive, and SJVAPCD may identify additional rules and regulations that are applicable. Compliance with Conditions of Approval of the Approved Project was determined to result in less than significant temporary and short-term air quality impacts during construction. Operational emissions associated with the Approved Project would be less than the established SJVAPCD thresholds of significance, resulting in a less than significant impact.

Due to the new Paulsell Project components and increased development footprint, an air quality and greenhouse gas ("GHG") technical memorandum was prepared for the Paulsell Project (Appendix B) to confirm air emissions generated during construction and operational activities would not exceed any of the SJVAPCD's significance thresholds as analyzed in the 2010 IS/MND. To account for the new Project components and increased development area, the California Emissions Estimator Model ("CalEEMod"), Version 2016.3.2, was used to estimate emissions for construction and operation of the Paulsell Project to confirm emissions related to construction and long-term operations would not deviate substantially compared with what was analyzed in the 2010 IS/MND. The calculated air quality impacts are provided in Appendix B, and estimated maximum daily construction emissions are provided in Table 3 of Appendix B. As discussed in Appendix B, annual construction emissions would not exceed the SJVAPCD significance thresholds for reactive organic gases ("ROGs"), oxides of nitrogen (NOx), carbon monoxide (CO), sulfur oxides (SOx), or particulate matter (PM10 and PM2.5) during Project construction, and impacts would remain less than significant. No new impact would occur.

c. No New Impact. As discussed in Section III of the 2010 IS/MND, the Approved Project would not expose sensitive receptors to substantial toxic air contaminant ("TAC") concentrations. The nearest sensitive receptor to the Paulsell Project is a residence located approximately 1.5 miles southeast of the Paulsell Project Site. However, the Approved Project would be required to comply with the SJVAPCD Rule and Regulations during construction to reduce construction-related air quality impacts to a less than significant

level. The 2010 IS/MND also assumed six operational employees would maintain the facility during operation and that the increase in traffic to the Paulsell Project Site associated with these employees would have a negligible effect on air quality during operation.

Valley Fever Exposure

Similar to the Approved Project, the Paulsell Project would also be required to comply with SJVAPCD Rules and Regulations during construction to reduce construction-related air quality impacts. The Paulsell Project would comply with SJVAPCD Rule 8021, which requires applicants to develop, prepare, submit, obtain approval of, and implement a Dust Control Plan. The Dust Control Plan would reduce fugitive dust impacts to less than significant for all construction and decommissioning phases of the Paulsell Project and also control the release of the *Coccidioides immitis* fungus from construction activities, which causes Valley Fever. Further, the Paulsell Project would meet the requirements of Labor Code Section 6709 as provided in Appendix B, which would also reduce potential exposure to Valley Fever. Compliance with applicable SJVAPCD Rules and Regulations and Labor Code Section 6709 would ensure the Paulsell Project would not result in Valley Fever exposure to sensitive receptors, and no new impact would occur.

Toxic Air Contaminants

Similar to the Approved Project, the Paulsell Project would also result in the emission of TACs during construction. TACs that would potentially be emitted during construction activities associated with the Paulsell Project would be diesel particulate matter ("DPM"). DPM emissions would be emitted from heavy equipment operations and heavy-duty trucks. Heavy-duty construction equipment is subject to a California Air Resources Board ("CARB") Airborne Toxics Control Measure for in-use diesel construction equipment to reduce diesel particulate emissions. According to the Office of Environmental Health Hazard Assessment, health risk assessments (which determine the exposure of sensitive receptors to toxic emissions) should be based on a 30-year exposure period for the maximally exposed individual resident; however, such assessments should also be limited to the period/duration of activities associated with the Paulsell Project. The duration of the proposed construction activities would constitute a small percentage of the total 30year exposure period. The construction period for the Paulsell Project would be approximately 8 months, after which construction-related TAC emissions would cease. Additionally, CARB has established that DPM concretions are substantially reduce at approximately 1,000 feet from their source (CARB 2005). The nearest sensitive receptor is greater than 1.5 miles to the southeast of the Project boundary, and construction activity would be dispersed across the Original Project Site. Furthermore, based on local meteorological data from the two closest stations, the prevailing wind direction in the area are northwest and west, which are opposite of the nearest sensitive receptor located to the southeast of the Original Project Site. Finally, the majority of PM₁₀ emissions shown in Table 3 of Appendix B are fugitive dust emissions from vehicle travel on unpaved roads and not DPM emissions from combustion of diesel fuel. Therefore, due to this relatively short period of exposure, minimal DPM on site, prevailing wind direction, and distance from sensitive receptors, TACs generated during construction are not expected to result in concentrations causing significant health risks.

Following completion of on-site construction activities, the Paulsell Project would not involve routine operational activities that would generate TAC emissions. Operation of the Paulsell Project would not result in any non-permitted direct emissions. For the reasons previously described, the Paulsell Project would not result in substantial TAC exposure to sensitive receptors, and no new impact would occur.

Health Impacts of Carbon Monoxide

As determined by the Traffic Impact Assessment for the Paulsell Project (Appendix C), the addition of Paulsell Project construction or operational traffic to study area intersections would not result in deficient intersection level of service ("LOS") operations, all 5 intersections would result in a LOS of A or B during construction and once operational. Accordingly, the Paulsell Project would not generate traffic that would contribute to potential adverse traffic impacts that may result in the formation of CO hotspots. Therefore, it is concluded that the construction-related traffic under the Paulsell Project is not anticipated to create a CO hotspot as emissions would be dispersed rapidly and would not be concentrated, and LOS at study area intersections would not be significantly impacted. During operation, the Paulsell Project is expected to generate very few vehicle trips for maintenance personnel, and therefore no CO hotspots would be created. As such, impacts to sensitive receptors with regard to potential CO hotspots resulting from the Paulsell Project's contribution to cumulative traffic-related air quality impacts would remain less than significant. No new impact would occur.

Health Impacts of Other Criteria Air Pollutants

As detailed in Appendix B, construction of the Paulsell Project would not exceed the SJVAPCD thresholds for ROGs or for the ozone (O₃) precursor NO_x. Additionally, construction would be short term in duration, lasting only 8 months, and the long-term operational emissions would not exceed any significance thresholds for O₃ precursors. Construction and operation of the Paulsell Project would not exceed thresholds for PM₁₀ or PM_{2.5} and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter. Operation of the Paulsell Project would also not result in emissions that exceed the SJVAPCD's emission thresholds for any criteria air pollutants, including ROGs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}. Because the Paulsell Project would not exceed any significance thresholds for emissions of any criteria air pollutant during construction and operation, no new impact would occur.

d. No New Impact. As discussed in Section III of the 2010 IS/MND, the Approved Project would not create objectionable odors affecting a substantial number of people. Similar to the Approved Project, odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the Paulsell Project. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. Such odors are temporary and generally occur at low levels that would not result in nuisance. In regards to long-term operations, the Paulsell Project would not change routine inspection and maintenance activities for the existing transmission lines, and operational activities would not result in any sources of substantial odors. Therefore, no new impact associated with odors would occur.

5.4 Biological Resources

		Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
IV.	Biological Resources - Would the project	•	
dir an se reg the	ave a substantial adverse effect, either rectly or through habitat modifications, on by species identified as a candidate, nsitive, or special status species in local or gional plans, policies, or regulations, or by a California Department of Fish and Game U.S. Fish and Wildlife Service?	Less Than Significant with Mitigation Incorporated	Less than Significant with Previous Mitigation

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	Less Than Significant with Mitigation Incorporated	Less than Significant with Previous Mitigation
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	Less Than Significant	No New Impact
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	Less Than Significant with Mitigation Incorporated	Less than Significant with Previous Mitigation
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	Less Than Significant	No New Impact
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	Less Than Significant	No New Impact

Biological resources were analyzed in Section IV of the 2010 IS/MND. To confirm biological resources at the Paulsell Project Site have not changed substantially compared with those present and analyzed in the 2010 IS/MND, field surveys were conducted at the site from March to July 2020, and results are provided in the Biological Resources Report included as Appendix D to this addendum. The Biological Resources Report includes the results of a literature review conducted in July 2020 and field surveys conducted on the Paulsell Project Site. The results of the updated biological surveys included in the Biological Resources Report indicate that the Paulsell Project Site has not had a substantial change in site circumstances and the Paulsell Project will have similar impacts to biological resources as those identified in the 2010 IS/MND, as more fully described below.

a. Less than Significant with Previous Mitigation. As discussed in Section IV of the 2010 IS/MND, the Approved Project was determined to result in less than significant impacts to biological resources with mitigation incorporated. Habitat loss was not considered substantial due to the existing and historic agricultural use of the site. Potential impacts to burrowing owl (*Athene cunicularia*), Swainson's Hawk (*Buteo swainsoni*), and San Joaquin kit fox (*Vulpes macrotis mutica*) would be reduced to a less than significant level with the implementation of mitigation. Specific Mitigation Measures as described in detail in the 2010 IS/MND include those for San Joaquin Kit Fox (Mitigation Measures 1 through 9) and breeding bird/raptor measures (Mitigation Measure 10).

Through focused, species-specific surveys and assessments at the Paulsell Project Site, no special-status plant species were detected during the focused botanical surveys conducted within the appropriate blooming periods (Appendix D). A total of 15 special-status wildlife species were either observed or considered to have a moderate or high potential to occur on or in close proximity to the Original Project Site, including Western Spadefoot (Spea hammondii), San Joaquin whipsnake (Masticophis flagellum

ruddocki), grasshopper sparrow (Ammodramus savannarum), short-eared owl (Asio flammeus), burrowing owl, Swainson's hawk, northern harrier (Circus cyaneus), white-tailed kite (Elanus leucurus), loggerhead shrike (Lanius ludovicianus), song sparrow (Melospiza melodia), pallid bat (Antrozous pallidus), Townsend's big-eared bat (Corynorhinus townsendii), western mastiff bat (Eumops perotis californicus), western red bat (Lasiurus blossevillii), and American Badger (Taxidea taxus). Of the special-status wildlife species identified in the Biological Resources Report, six special-status wildlife species were previously analyzed in the 2010 IS/MND, including the San Joaquin kit fox, northern harrier, Swainson's hawk, white-tailed kite, loggerhead shrike, and burrowing owl. Additionally, the 2010 IS/MND identified the ferruginous hawk (Buteo regalis) as potentially using the Original Project Site for foraging. However, the ferruginous hawk is not considered to be a special-status wildlife species (Appendix D).

Per the 2010 IS/MND, impacts to San Joaquin kit fox, white-tailed kite, loggerhead shrike, northern harrier, and Swainson's hawk were identified as potentially significant. The Biological Resources Report identifies Swainson's hawk as having high potential to occur on the Paulsell Project Site, white-tailed kite and loggerhead shrike as having moderate potential to occur on the Paulsell Project Site, and San Joaquin kit fox as having low potential to occur on the Paulsell Project Site (Appendix D). Although no burrows for San Joaquin kit fox were observed on the Paulsell Project Site during burrow assessment surveys conducted for the Paulsell Project, Mitigation Measures 1 through 9, as provided in Section IV of the 2010 IS/MND, would be implemented under the Paulsell Project to avoid and minimize impacts to San Joaquin kit fox. Additionally, Mitigation Measure 10 would also be implemented under the Paulsell Project to mitigate for migratory bird species during breeding season. Pre-construction surveys for both tree- and ground-dwelling bird species would be conducted in accordance with Mitigation Measure 10 if ground disturbance or tree removal occurs during breeding season. Pre-construction surveys would be conducted for all special-status species identified as having a potential to occur at the Paulsell Project Site, and the qualified biologist conducting the pre-construction surveys will prepare a wildlife survey report documenting the results of the surveys. The report summarizing the survey results will be submitted to the County prior to construction of the Paulsell Project. Finally, if species or nests are identified during pre-construction surveys, a qualified biologist would be required to make a determination on construction buffers and any further monitoring of burrows or nesting site(s) to ensure significant impacts to sensitive biological resources would not occur, in accordance with Mitigation Measures 1 through 10 of the Approved Project.

Therefore, although the Paulsell Project would include an additional 70.25 acres of ground disturbance, development of the Paulsell Project is not expected to result in a substantial loss of habitat for any special-status plants or wildlife. Further, Crow Creek Solar would be required to prepare and implement a decommissioning plan for the Paulsell Project, and upon decommissioning, Crow Creek Solar would work collaboratively with the County to restore the Paulsell Project Site to pre-construction conditions or to a condition that best meets the County's next use. Therefore, upon compliance with previously adopted Mitigation Measures 1 through 10, as provided in the 2010 IS/MND, the proposed Paulsell Project would have less than significant impacts on special-status plant and wildlife species.

No New Impact. The 2010 IS/MND did not identify any sensitive natural plant communities or natural riparian or wetland plant communities within the Original Project Site. During 2020 surveys conducted for the Paulsell Project, natural vegetation communities identified within the Paulsell Project Site included California annual grassland and black willow thicket; however, no sensitive natural communities were identified.

Crow Creek (AF13) is a natural ephemeral drainage that runs along the southern boundary of the Paulsell Project Site and is a tributary to Orestimba Creek, which is a tributary of the San Joaquin River. Riparian vegetation including Fremont cottonwood forest and black willow thickets exist in small sections throughout the creek channel. However, the Paulsell Project design includes a 250-foot, no-disturbance buffer from the Crow Creek top of bank, which is greater than the requirement for a 75-foot, no-disturbance buffer from Crow Creek per Condition of Approval 35 under the Approved Project. As such, similar to the Approved Project, the proposed Paulsell Project would not directly affect existing riparian habitat within the Paulsell Project Site, and no new impact would occur.

- Less than Significant with Previous Mitigation. As discussed in Section IV of the 2010 IS/MND, the Approved C. Project was reviewed by the Army Corps of Engineers and was determined to result in no impacts to any waters of the United States, including wetlands. During preparation of the biological resources report prepared for the Paulsell Project, Dudek documented current conditions and assessed the site for the presence of potential waters of the United States and waters of the state. One irrigation canal (Canal-1) and several other minor aquatic features were identified on site. The concrete-lined canal feature is approximately 4 to 6 feet in width and supports perennial surface water for the adjacent agricultural operations. The canal appears hydrologically connected to an off-site stock pond and perimeter freshwater marsh. No upstream or downstream connectivity to other receiving waters was identified. Due to its isolated nature and lack of an ordinary high water mark, this feature would not be subject to federal jurisdiction under the Clean Water Act. However, Canal-1 is likely subject to California Department of Fish and Wildlife and/or the state Regional Water Quality Control Board jurisdiction based on evidence of bed and bank, or surface water flow. An additional 0.17 acres of potentially state-jurisdictional waters were identified within the Paulsell Project Site as shown in Figure 4, Potentially Jurisdictional Aquatic Resources. No additional aquatic features were identified. The Paulsell Project, as proposed, would avoid all potential waters of the United States and waters of the state; therefore, no impacts would occur to any potential federally or stateprotected waters, and no new impact would occur. A complete accounting of the federal and state aquatic resources investigated are provided in Appendix D.
- d. No New Impact. As discussed in Section IV of the 2010 IS/MND, the Original Project Site is not located within any designated resident or migratory wildlife corridors. However, in accordance with Mitigation Measure No. 9 of the Approved Project, all perimeter fencing, which would be approximately 6 to 8 feet in height, would be required to be raised 6 inches above the ground to allow for San Joaquin kit fox and other wildlife to move into and out of the Paulsell Project Site. The Paulsell Project would encompass the same site boundaries as the Approved Project and would not substantially diminish opportunities for terrestrial wildlife to move across the site. Therefore, no new impact would occur.
- e. No New Impact. As discussed in Section IV of the 2010 IS/MND, the Approved Project would not conflict with adopted local policies or ordinances protecting biological resources. The Paulsell Project would encompass the same site boundaries as the Approved Project. As such, no new impacts to any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance, would occur.
- f. No New Impact. No natural community conservation plans or habitat conservation plans have been adopted in the County (CDFW 2019). As such, the Paulsell Project would not conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan, consistent with the 2010 IS/MND. No new impact would occur.

5.5 Cultural Resources and Tribal Cultural Resources

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
V. Cultural Resources and Tribal Cultural Re	sources - Would the project:	
 a) Cause a substantial adverse change in the significance of a historical resource pursuant to CEQA Guidelines §15064.5? 	Less Than Significant Impact	No New Impact
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines §15064.5?	Less Than Significant Impact	Less Than Significant with Previous Mitigation
c) Disturb any human remains, including those interred outside of formal cemeteries?	Less Than Significant Impact	Less Than Significant with Previous Mitigation

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

d) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	Not Applicable*	Less Than Significant with Previous Mitigation
e) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?	Not Applicable*	Less Than Significant with Previous Mitigation

Note:

- * Tribal Cultural Resources was added as a new resource area as of December 2018 per updates to Appendix G of the CEQA Guidelines, after adoption of the 2010 IS/MND. Tribal Cultural Resources thresholds are provided in Section XVIII of the CEQA Appendix G Checklist.
- No New Impact. As discussed in Section V of the 2010 IS/MND, no previously documented historic resources were identified on the Paulsell Project Site as determined by the records search conducted for the Approved Project. Additionally, the records search conducted for the Approved Project determined the Paulsell Project Site had a low to moderate sensitivity for historic resources. The Paulsell Project would encompass the same site as the Approved Project, and as such, development of the Paulsell Project would not affect any historical resources. Therefore, no new impact would occur.
- b. Less than Significant with Previous Mitigation. As discussed in Section V of the 2010 IS/MND, the records search conducted for the Approved Project determined there are no prehistoric or archaeological resources documented on the Paulsell Project Site. However, the Paulsell Project Site was determined to have a moderate to high sensitivity for prehistoric resources due to the proximity to natural watercourses formerly and currently present adjacent to the Paulsell Project Site. As such, the 2010 IS/MND concluded that the Approved Project could result in potentially significant impacts to archaeological resources in the event that previously unrecorded archaeological resources are inadvertently discovered during ground-disturbing activities. However, implementation of Mitigation Measure No. 11 of the Approved Project would reduce potentially significant

impacts to previously unrecorded cultural resources by requiring construction activities to cease and consultation by a qualified archaeologist upon any inadvertent discoveries.

Ground-disturbing activities associated with the expanded development area of the Paulsell Project have the potential to affect previously unrecorded subsurface prehistoric and historic era resources. Additionally, review of the Project setting and geology indicates the area has a low-moderate potential to contain unanticipated cultural resources (Appendix E). However, implementation of previously adopted Mitigation Measure No. 11 would ensure appropriate steps would be taken in the event that cultural resources are inadvertently discovered during ground-disturbing activities. Previously adopted Mitigation Measure No. 11 would apply to all Project-related construction activities on the Paulsell Project Site. Thus, this mitigation measure would also apply to any Project-related construction activities within the increased development area of the Paulsell Project.

Additionally, APM-1, as described in Section 4.8, Construction, would be implemented as part of the proposed Paulsell Project. APM-1 provides for a WEAP, which includes construction worker environmental training in preparation of earthmoving activities. Per APM-1, in the event of an inadvertent discovery, earthmoving activities in the area of the find shall be halted; the discovered resource shall be roped off; and a qualified professional archaeologist shall be contacted. The qualified archaeologist shall determine whether the resource is potentially significant per the CRHR and develop appropriate treatment actions for the resource. Therefore, impacts to archaeological resources during construction activities would be less than significant with previously approved Mitigation Measure No. 11, as provided in the 2010 IS/MND, and implementation of APM-1. As such, no new impact would occur, and no further mitigation would be necessary to reduce the previously identified significant impact in the 2010 IS/MND.

- C. Less than Significant with Previous Mitigation. The 2010 IS/MND did not identify any known burial sites within the Original Project Site or immediate vicinity. However, previously described Mitigation Measure No. 11 would also mitigate for any potential inadvertent discoveries of human remains on the Paulsell Project Site, similar to inadvertent discoveries of previously unrecorded archaeological resources. As the Paulsell Project would include a larger development area than the Approved Project, ground-disturbing activities during construction would have the potential for the inadvertent discovery of previously unknown human remains. However, previously adopted Mitigation Measure No. 11 would apply to all Project-related construction activities, including within the increased development area of the Paulsell Project and would ensure that appropriate steps would be taken in the event that human remains are discovered during construction activities. Additionally, APM-1 would be implemented as part of the Paulsell Project, which includes construction worker environmental training in preparation of earthmoving activities. Per APM-1, in the event of an inadvertent discovery, earthmoving activities in the area of the find shall be halted; the discovered resource shall be roped off; and a qualified professional archaeologist shall be contacted. The qualified archaeologist shall determine whether the resource is potentially significant per the CRHR and develop appropriate treatment actions for the resource. Therefore, impacts to human remains during construction activities would be less than significant with previously approved Mitigation Measure No. 11, as provided in the previous 2010 IS/MND, and implementation of APM-1. As such, no new impact would occur.
- d. Less than Significant with Previous Mitigation. The topic of Tribal Cultural Resources was added as a new resource area as part of the December 2018 updates to Appendix G of the CEQA Guidelines, after adoption of the 2010 IS/MND.

The Approved Project pre-dates Assembly Bill ("AB") 52 and, as such, Project notification and consultation pursuant to AB 52 was not required at the time. While regulatory conditions do not require outreach with NAHC-listed tribes at this time, Tribal Cultural Resources as a resource type should be appropriately considered. As such, APM-1, as described in Section 4.8, would be implemented as part of the proposed

Paulsell Project. APM-1 provides for a WEAP, which includes construction worker environmental training in preparation of earthmoving activities. Per APM-1, in the event of an inadvertent discovery that could have tribal importance, earthmoving activities in the area of the find shall be halted; the discovered resource shall be roped off; and a qualified professional archaeologist and the County shall be contacted. The County shall notify Native American tribes that have been identified by the NAHC to be traditionally and culturally affiliated with the geographic area of the Paulsell Project Site. If the unanticipated resource is archaeological in nature, appropriate management requirements shall be implemented as required by previously adopted Mitigation Measure No. 11, which, as described above, would also apply to any Projectrelated construction activities including within the increased development area of the Paulsell Project. If the County determines that the potential resource appears to be a Tribal Cultural Resource (as defined by California Public Resources Code, Section 21074), any affected tribe would be provided a reasonable period of time to conduct a site visit and make recommendations regarding future ground-disturbance activities and the treatment and disposition of any discovered Tribal Cultural Resources. However, as required in previously adopted Mitigation Measure No. 11, in the case of an inadvertent discovery of cultural resources, including Tribal Cultural Resources, all ground-disturbing activities in the area shall be halted, and a qualified archaeologist shall be notified of the discovery. Although the Paulsell Project would result in a 25% increase to the Original Phase II Footprint within the Original Project Site compared to the Approved Project, Mitigation Measure No. 11 would still be implemented in the event that any inadvertent cultural resources, including Tribal Cultural Resources, are discovered at the Paulsell Project Site. Implementation of a mitigation program as required by Mitigation Measure No. 11 will be made based on the determination of the County that the approach is reasonable and feasible. Therefore, with implementation of previously approved Mitigation Measure No. 11, as provided in the 2010 IS/MND, and of APM-1, impacts would be less than significant.

e. Less than Significant with Previous Mitigation. As discussed under threshold (d) above, the Approved Project pre-dates AB 52, and consultation pursuant to AB 52 has not been required. However, implementation of previously adopted Mitigation Measure No. 11 would ensure that any potential unanticipated resources that are archaeological in nature, including those potentially discovered within the increased development area of the Paulsell Project, would be appropriately managed. Additionally, if the County determines that the potential resource appears to be a Tribal Cultural Resource (as defined by California Public Resources Code, Section 21074), any affected tribe would be provided a reasonable period of time to conduct a site visit and make recommendations regarding future ground-disturbance activities and the treatment and disposition of any discovered Tribal Cultural Resource. Implementation of a mitigation program required by Mitigation Measure No. 11 will be made based on the determination of the lead agency that the approach is reasonable and feasible. Therefore, impacts would be less than significant with implementation of previously approved Mitigation Measure No. 11, as provided in the 2010 IS/MND, and of APM-1, as previously described. Therefore, impacts would be less than significant.

5.6 Energy

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
VI. Energy – Would the project:		
 a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? 	Not Applicable*	No New Impact

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
VI. Energy – Would the project:		
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	Not Applicable*	No New Impact

Note:

a. No New Impact. The topic of energy was added as a new resource area as part of the December 2018 updates to Appendix G of the CEQA Guidelines, after adoption of the 2010 IS/MND. However, as discussed in the analysis for GHG emissions of the 2010 IS/MND, the operation of the Approved Project would increase the amount of energy generated from clean, renewable sources within the State of California. Due to the increase in the development footprint, the Paulsell Project would result in an increase of clean renewable energy sources compared to the Approved Project. To ensure that no new impacts to energy would occur with implementation of the Paulsell Project, the following energy analysis has been incorporated below.

Construction Energy Use

Electricity. Temporary electric power for as-necessary lighting and electronic equipment would be provided by PG&E. The amount of electricity used during construction would be minimal because typical demand would stem from electric-powered hand tools. The electricity used for construction activities would be temporary and minimal; therefore, Project construction would not result in wasteful, inefficient, or unnecessary consumption of electricity. No new impact would occur.

Natural Gas. Natural gas is not anticipated to be required during construction of the Paulsell Project. Fuels used for construction equipment would primarily consist of diesel and gasoline, which are discussed under the subsection "Petroleum." Any minor amounts of natural gas that may be consumed as a result of Project construction would be temporary and negligible and would not have an adverse effect; therefore, Project construction would not result in wasteful, inefficient, or unnecessary consumption of natural gas. No new impact would occur.

Petroleum. Petroleum would be consumed throughout construction. Fuel consumed by construction equipment would be the primary energy resource expended over the course of construction. Transportation of construction materials and construction workers would also result in petroleum consumption. Heavyduty construction equipment, vendor trucks, and haul trucks would use diesel fuel. Construction workers would likely travel to and from the Project area in gasoline-powered vehicles. Construction is expected to take approximately 8 months. Once construction activities cease, petroleum use from off-road equipment and transportation vehicles would end. Because of the short-term nature of construction and relevantly small scale of the Paulsell Project, petroleum use would be minimal. No new impact would occur.

Operational Energy Use

The proposed Paulsell Project would be built in accordance with the current Title 24 standards at the time of construction and the California Green Building Standards, where applicable. Additionally, as a renewable energy project, it would provide a net increase in clean, renewable energy available for use within the state. Therefore, due to the limited amount of electricity use compared to that generated by the Paulsell Project, and the inherent nature of the project as a renewable energy development, the Paulsell Project would not result in a wasteful use of energy. No new impact would occur.

^{*} Energy was added as a new resource area as of December 2018 per updates to Appendix G of the CEQA Guidelines, after adoption of the 2010 IS/MND.

b. No New Impact. The proposed Paulsell Project would assist the state in meeting its Renewables Portfolio Standard goals by increasing the supply of renewable solar energy within the state. The Paulsell Project would also comply with CARB's idling regulations for heavy-duty trucks, which would help to reduce petroleum consumption during construction. Based on the foregoing, the Paulsell Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency; therefore, no new impacts would occur during construction and operation.

5.7 Geology and Soils

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
VII. Geology and Soils - Would the project:		
 a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: 		
 i) Rupture of a known earthquake fault, as delineated on the most recent Alquist- Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. 	No Impact	No New Impact
ii) Strong seismic ground shaking?	Less Than Significant Impact	No New Impact
iii) Seismic-related ground failure, including liquefaction?	Less Than Significant Impact	No New Impact
iv) Landslides?	No Impact	No New Impact
b) Result in substantial soil erosion or the loss of topsoil?	Less Than Significant Impact	No New Impact
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on-site or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	Less Than Significant Impact	No New Impact
d) Be located on expansive soil, as defined in the Uniform Building Code, creating substantial direct or indirect risks to life or property?	Less Than Significant Impact	No New Impact
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	No Impact	No New Impact
 f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? 	Less Than Significant Impact	Less Than Significant with Previous Mitigation

a. i) No New Impact. As discussed in Section VI of the 2010 IS/MND, there are no active faults mapped within or near the Original Project Site, nor is the Original Project Site within an Alquist-Priolo Special Studies zone.

As such, fault rupture is unlikely. As the Paulsell Project boundary would encompass the same site area as the Approved Project, impacts associated with fault rupture would remain less than significant, and no new impact would occur.

- **ii) No New Impact.** The 2010 IS/MND concluded that, due to distance from the nearest fault (11 miles) and adherence with the California Building Code ("CBC"), structures would be designed to minimize damage from strong seismic ground shaking. The Paulsell Project would be located within the same site as the Approved Project and would also be subject to CBC requirements. As such, with adherence to the CBC and Geotechnical Report prepared for the Approved Project, the Paulsell Project would result in less than significant impacts associated with strong seismic ground shaking, and no new impact would occur.
- **iii)** No New Impact. The 2010 IS/MND concluded that although potential for seismic-related ground failure to expose people or structures to substantial adverse effects would be less than significant because the Paulsell Project would be required to comply with the CBC and Geotechnical Report prepared for the Approved Project. Additionally, no paved roadways, bridges, pipelines carrying hazardous materials, or structures intended for human habitation are proposed as part of the Paulsell Project. The Paulsell Project would be located on the same site as the Approved Project and, similar to the Approved Project, all structures associated with the Paulsell Project would be designed consistent with the CBC and Geotechnical Report prepared for the Approved Project. Therefore, impacts associated with seismic-related ground failure would be less than significant, and no new impact would occur.
- iv) No New Impact. The 2010 IS/MND concluded that due to the relatively flat nature of the Paulsell Project Site and gentle southwest to northeast slope, the Original Project Site was not subject to landslides. The Paulsell Project would be located on the same site as the Approved Project and therefore would also not be subject to the landslide potential as with the Approved Project. Therefore, the Paulsell Project would result in a less than significant impact associated with landslides, and no new impact would occur.
- b. No New Impact. As discussed in Section VI of the 2010 IS/MND, soil types classified within the Original Project Site are characterized as deep, well-drained soil formed in alluvium derived from mixed rock sources. In accordance with Condition of Approval 17 of the Approved Project, a grading and drainage plan shall be submitted with the building permit. The grading and drainage plan would be required to comply with the National Pollution Discharge Elimination System General Permit and the Quality Control standards for New Development and Redevelopment contained therein. Further, the Paulsell Project, similar to the Approved Project, would be required to prepare a Stormwater Pollution Prevention Plan ("SWPPP") and implement best management practices ("BMPs") for sediment control to prevent soil erosion. Implementation of BMPs would minimize erosion, siltation and contaminated runoff from the Paulsell Project Site during construction.

During operation, the 2010 IS/MND concluded that the Approved Project would result in minimal generation of stormwater runoff within the Original Project Site, as the site is relatively flat. To prevent soil erosion and provide dust control after construction, the Paulsell Project would plant a low vegetated understory under the panels similar to the Approved Project to reduce potential for sheet flow and allow stormwater to percolate into the ground.

The increased development footprint of the Paulsell Project would result in a greater area of ground-disturbing activities. However, similar to the Approved Project, Crow Creek Solar would be required to comply with Condition of Approval 17, which would ensure that appropriate controls and activities are used during construction to prevent stormwater pollution associated with discharge of sediments and other pollutants though the preparation of a grading and drainage plan. Therefore, the Paulsell Project would not result in substantial soil erosion within the Paulsell Project Site, and no new impact would occur.

- c. No New Impact. As discussed in Section VI of the 2010 IS/MND, the Original Project Site is not located on an unstable geologic unit, nor would the geologic units underlying the site become unstable as a result of the Approved Project. Further, the potential of lateral spreading, subsidence, collapse, and/or liquefaction was determined to be low on the Original Project Site.
 - Moreover, all development would be required to comply with CBC requirements, which includes design requirements that address potential issues related to unstable soils. The Paulsell Project would result in an increased development footprint of 25% within the Original Project Site, and development of additional components beyond that analyzed in the 2010 IS/MND, including the BESS, overhead transmission line, O&M building, collector substation, and other ancillary facilities or equipment. However, all structures and development associated with the Paulsell Project would also be required to comply with the CBC and would thus incorporate design requirements that would reduce potential impacts, such as lateral spreading in the liquefiable soils. Therefore, impacts associated with unstable soils would be less than significant, and no new impact would occur.
- d. No New Impact. As discussed in Section VI of the 2010 IS/MND, expansive clays were observed throughout the Original Project Site's near surface soils. As such, on-site soils could have moderate to high expansion (i.e., shrink-swell) potential. However, no structures are proposed that are intended for human habitation, and access roads would be intended for occasional use for maintenance activities. Thus, the Approved Project would not result in substantial risk to life or property. In addition, per the 2010 IS/MND, all structures would be required to conform to the requirements of the CBC and Geotechnical Report for the Approved Project. The Paulsell Project would result in an increased development footprint of 25% within the Original Project Site, and development of additional components beyond that analyzed in the 2010 IS/MND, including the BESS, overhead transmission line, O&M building, collector substation, and other ancillary facilities or equipment. However, similar to the Approved Project, the Paulsell Project would be required to comply with the requirements of the CBC and recommendations of the Geotechnical Report for the Approved Project, which would reduce potential impacts from expansive soils. Therefore, the Paulsell Project would result in a less than significant impact associated with expansive soils, and no new impact would occur.
- e. No New Impact. As discussed in Section VI of the 2010 IS/MND, the Approved Project would not result in the use of a septic tank or alternative wastewater disposal system. However, the Paulsell Project would involve the development of an O&M building, which would include permanent restroom facilities with septic tanks and/or portable toilets used for sanitary purposes. If septic tanks are constructed on site, the Paulsell Project would be required to comply with Appendix H, Private Sewage Disposal System, of the 2019 California Plumbing Code, which includes requirements for septic tank construction. More specifically, Section H501.11, Structural Design, of Appendix H of the California Plumbing Code, includes requirements for tank construction that is able to withstand anticipated loads. Further, compliance with the International Building Code also includes design considerations, such as sizing and siting of septic tanks, to ensure adequate support of septic systems. Therefore, although the Paulsell Project would result in the use of a septic tank or alternative wastewater disposal system, with incorporation of requirements of the California Plumbing Code and International Building Code, the Paulsell Project O&M building and associated septic tank would be adequately supported by existing soils. No new impact would occur.
- f. Less than Significant with Previous Mitigation. The 2010 IS/MND concluded that impacts to paleontological resources would be less than significant. However, the Approved Project included Mitigation Measure No. 11, as described in Section 5.5 above, which would reduce potentially significant impacts to previously unrecorded cultural resources, including paleontological resources, by requiring construction activities to cease and consultation by a qualified archaeologist upon any inadvertent discoveries.

An additional paleontological records search was conducted in preparation of this addendum to ensure impacts resulting from the increased development footprint and additional components proposed under the Paulsell Project would not result in significant impacts to paleontological resources. No paleontological resources are documented within the Paulsell Project Site. However, fossil localities in the region surrounding the Paulsell Project Site have produced paleontological resources in similar deposits as those mapped within the Paulsell Project Site (Appendix F).

Holocene age younger Quaternary alluvium blanketing the majority of the Project area is too young to produce scientifically significant paleontological resources, and therefore has been assigned low paleontological sensitivity. Excavations into younger alluvium would not require paleontological resource monitoring. Moreover, excavations into previously disturbed sedimentary deposits (e.g., artificial fill) would also not require paleontological monitoring.

Pleistocene age older Quaternary alluvium may be encountered at depth below surface exposures of Holocene age alluvium. Pleistocene age older Quaternary alluvium has been assigned moderate to high paleontological sensitivity, and these deposits are mapped at the surface along the western boundary and the west–central portion of the Paulsell Project Site, as shown on Figure 5, Geologic Formations. Finally, the northwestern-most extent of the Project area is underlain by the Pleistocene age Tulare Formation, which has been assigned high paleontological sensitivity. Additional information on these deposits is provided in Appendix F, Paleontological Resources Technical Memorandum, to this addendum.

As shown in Figure 5 and explained in Appendix F, although the majority of proposed development footprint under the Paulsell Project is underlain by Holocene-age alluvium with low paleontological sensitivity, development of the proposed Paulsell Project has potential to affect unknown subsurface paleontological resources, including those within the Pleistocene age younger Quaternary alluvium and the Pleistocene age Tulare Formation on-site. APM-1, as described in Section 4.8, would be implemented as part of the proposed Paulsell Project, which provides for a WEAP, which includes construction worker environmental training in preparation of earthmoving activities in areas of greater paleontological sensitivity. Per APM-1, in the event of an inadvertent discovery, earthmoving activities in the area of the find shall be halted; the discovered resource shall be roped off; and a qualified professional paleontologist shall be contacted. The qualified paleontologist shall determine whether the resource is potentially significant as per the Society of Vertebrate Paleontology 2010 guidelines and develop appropriate treatment actions for the resource. With implementation of previously adopted Mitigation Measure No. 11 and of APM-1, impacts to paleontological resources during construction activities would be less than significant, and no new impact would occur.

5.8 Greenhouse Gas Emissions

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
VIII. Greenhouse Gas Emissions - Would the	e project:	
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	Less Than Significant Impact	No New Impact
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	Less Than Significant Impact	No New Impact

a. No New Impact.

Section VII of the 2010 IS/MND determined that the Approved Project would not generate greenhouse gas emissions, either directly or indirectly, resulting in a significant impact on the environment. The Paulsell Project would increase the development footprint by approximately 25% within the Original Project Site, as well as include the addition of a BESS, overhead transmission line, O&M building, collector substation, and other ancillary facilities or equipment. Therefore, an air quality and GHG technical memorandum was prepared for the Paulsell Project (Appendix B) to confirm GHG emissions at the Paulsell Project Site would not deviate substantially compared with what was analyzed in the 2010 IS/MND.

Construction of the Paulsell Project would also result in GHG emissions similar to the Approved Project, which are primarily associated with use of off-road construction equipment, on-road vendor trucks, and worker vehicles.

Modeling assumptions, including construction schedules, construction phasing, equipment fleet, truck trips, and worker vehicle trips assumed for the purposes of emissions estimation, are provided in Appendix B. Estimated annual construction GHG emissions are also provided in Table 5 of Appendix B. As discussed therein, estimated total GHG emissions during construction of the Paulsell Project would be approximately 1,381 MT CO₂e in 2023, over the construction period. Estimated Project-generated construction emissions amortized over 30 years would be approximately 46 MT CO₂e per year.

Regarding operational emissions, as discussed in the 2010 IS/MND, operational GHG emissions would not be significant because the Approved Project would produce clean energy for the State of California, thus reducing state-wide GHG emissions.

Operation of the Paulsell Project would generate GHG emissions through motor vehicle trips; energy use (natural gas or electricity consumed by the Paulsell Project, as required when not powered by on-site energy generation); solid waste disposal; and generation of electricity associated with water supply, treatment, and distribution and wastewater treatment. Long-term (i.e., operational) regional emissions of GHGs were quantified using the CalEEMod.

During O&M, one of the main sources of GHG emissions would be fugitive emissions from equipment containing sulfur hexafluoride gas installed at the proposed on-site collector substation.

The estimated operational year 2024 Paulsell Project-generated GHG emissions from aforementioned emission sources are shown in Table 6 of Appendix B. Estimated annual Project-generated GHG emissions would be approximately 238 MT CO₂e per year as a result of operational activities. Estimated annual Paulsell Project-generated operational emissions in 2024 and amortized construction emissions would be approximately 284 MT CO₂e per year. As shown, the total annual emissions would not exceed the GHG significance threshold of 900 MT CO₂e per year. Therefore, like the Approved Project, the Paulsell Project's GHG emissions would be less than significant, and no new impact would occur.

b. No New Impact. GHG emission impacts were analyzed in Section VII of the 2010 IS/MND. Section VII of the 2010 IS/MND determined that the Approved Project would not conflict with applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHGs.

Similar to the Approved Project, the Paulsell Project would produce renewable energy for use within the state. Between the increased size of the Paulsell Project and improvements in solar panel technology, the Paulsell Project is anticipated to produce more renewable energy than the Approved Project. Therefore, the

Paulsell Project would assist the state in compliance with the Renewables Portfolio Standard as described in CARB's 2017 Scoping Plan.

Since adoption of the 2010 IS/MND, the Stanislaus Council of Governments ("StanCOG") adopted the 2018 Regional Transportation Plan/Sustainable Communities Strategy ("RTP/SCS"). The 2018 RTP/SCS is an applicable plan adopted for the purpose of reducing GHGs from the land use and transportation sectors in the County and was adopted after completion of a program EIR. 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 StanCOG RTP/SCS.

Senate Bill 375 requires StanCOG to demonstrate in its SCS that it will reduce car and light truck GHG emissions 5% per capita by 2020 and 10% by 2035. For the Paulsell Project, the majority of traffic trips (for workers and trucks) would occur during construction, which would last approximately 8 months. These trips would generate VMT, but once construction is completed, construction-related traffic would cease, and VMT would return to pre-construction conditions. Therefore, VMT generated from construction traffic would be temporary and short term and would not conflict with the goals of the StanCOG RTP/SCS.

Lastly, based on the Governor's Office of Planning and Research ("OPR") Technical Advisory on Evaluating Transportation Impacts in CEQA, December 2018, Screening Threshold for Small Projects, projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less-than-significant transportation impact (OPR 2018). Operation of the Paulsell Project will have nominal traffic generation. Therefore, operation of the Paulsell Project would not generate a significant number of trips and therefore would not cause substantial amount of VMT. Thus, the Paulsell Project would have a less than significant impact, similar to the Approved Project. No new impact would occur.

5.9 Hazards and Hazardous Materials

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
IX. Hazards and Hazardous Materials - W	ould the project:	
 a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? 	No Impact	No New Impact
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	No Impact	No New Impact
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	No Impact	No New Impact
d) Be located on a site, which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, and, as a result, would it create a significant hazard to the public or the environment?		No New Impact

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard or excessive noise for people residing or working in the Project area?	Less Than Significant Impact	No New Impact
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	No Impact	No New Impact
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	Less Than Significant Impact	No New Impact

a. No New Impact. As discussed in Section VIII of the 2010 IS/MND, the Approved Project would not involve routine transport, use, or disposal of hazardous materials, and no impact would occur. The proposed Paulsell Project would operate as a solar energy farm, consistent with the Approved Project. The proposed Paulsell Project would also include a BESS, overhead transmission line, O&M building, collector substation, and other ancillary facilities or equipment. However, none of the newly proposed components of the Paulsell Project would involve the routine transport, use, or disposal of hazardous materials, similar to the Approved Project. Therefore, no new impact would occur.

Incorporation of the O&M building would involve routine transport, use, or disposal of minimal hazardous materials, including cleaning chemicals used and stored on site for routine cleaning purposes, motor vehicle fuel, lubricants, antifreeze, coolant, and herbicides, which was not analyzed in the 2010 IS/MND. However, hazardous materials are highly regulated in California, including the methods by which they are transported, used, and stored. Further, the application of herbicides for vegetation management, if required, is regulated by the California Department of Pesticide Regulation and would be required to be carried out by a licensed individual. As such, adherence to applicable regulations would ensure that no new impact would occur.

b. No New Impact. As discussed in Section VIII of the 2010 IS/MND, the Approved Project would not involve the use of hazardous materials that could result in reasonably foreseeable upset and accident, and no impact would occur. The proposed Paulsell Project would operate as a solar energy farm, consistent with the Approved Project. The proposed Paulsell Project would also include a BESS, overhead transmission line, O&M building, collector substation, and other ancillary facilities or equipment. Solar PV panels typically contain stable components such as silicon and metal, which would not pose a hazardous materials concern. The silicon in some panels may be infused with trace amounts of chemicals such as boron or phosphorous. However, the small amounts of these chemicals would not pose a hazard in the unlikely event of panel failure and release. The BESS, which would be housed either in a walk-in style enclosure or enclosed in an outdoor rated container, would likely be a lithium-ion type that contains lithium ions in some compound such as lithium manganese oxide. Release of the lithium is unlikely due to the rigorous construction and regulations such as UL1642, lithium cell safety standards.

Construction

During construction of the Paulsell Project, heavy construction equipment would also require the use of small amounts of hazardous materials such as oils, fuels, and other potentially flammable substances that have the potential to leak or spill within the construction area. However, these materials are highly regulated in California to prevent upset and accident. Therefore, compliance with all applicable regulations would ensure the Paulsell Project does not result in a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials from construction equipment.

The Original Project Site has also historically been used as orchards and row crops, and portions of the Paulsell Project Site are still currently used for agricultural orchards. There is potential for elevated concentrations of pesticide- and herbicide-related compounds in surface soils due to historic agricultural uses on the Project Site (Appendix G1). However, because pesticides break down over time, it is unlikely that residual pesticide levels would be above risk-based criteria for the proposed land use (solar energy facility). Metals do not break down and may remain at elevated levels; however, given the proposed land use, it is also not expected that metals would be above risk-based criteria. Therefore, the Paulsell Project would not result in a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials from historic agricultural uses on the Original Project Site.

In addition, structures located within the Original Project Site include agricultural storage sheds or out buildings. Based on the age of structures (pre-1970) on the subject property, lead-based paint and asbestoscontaining building materials ("ACM") may be present. During development of the proposed Paulsell Project, these existing structures on site could be demolished. The potential for release of ACM and lead-based paints during demolition of these existing structures was not analyzed in the 2010 IS/MND. If any of these structures need to be demolished or relocated during construction of the proposed Paulsell Project, con tact with potential ACM or lead-based paint could pose a potential hazard during demolition. Upon demolition of existing on-site structures, the Paulsell Project would be required to comply with existing regulations for removal of suspect materials. More specifically, the Paulsell Project would be required to comply with the U.S. Environmental Protection Agency (Code of Federal Regulations, Part 763) and the Department of Industrial Relations, which are responsible for the regulation of asbestos removal (CCR Title 8, Part 1529), respectively. As required by federal, state, and local regulations, if hazardous materials are present, demolition and removal of these materials from the Paulsell Project Site would be conducted by contractors licensed and permitted to handle these materials. Further, the Paulsell Project would be required to comply with the U.S. Environmental Protection Agency and the Department of Toxic Substances Control for removal of lead-based paints and with state and federal construction worker health and safety regulations, which require air monitoring and other protective measures during demolition activities where lead-based paint is present.

Additionally, asbestos or suspect ACM must be handled pursuant to the Asbestos Program established by the SJVAPCD. Per SJVAPCD requirements, all asbestos or suspect ACM must be surveyed by a Certified Asbestos Consultant prior to demolition. The asbestos survey, asbestos notification, demolition permit release, and applicable fees must be submitted to the SJVAPCD at least 10 working days prior to removal of any regulated ACM. In addition, as part of any removal of construction-generated hazardous waste from the Paulsell Project Site, all hazardous wastes removed during demolition must be managed, labeled, transported, and disposed of in accordance with local requirements by trained workers. Therefore, compliance with all applicable regulations for proper removal of structures containing lead-based paint and/or ACM, the proposed Paulsell Project would not create a significant risk to humans or the environment

through reasonably foreseeable upset and accident conditions involving the release of hazardous materials during Project construction.

Finally, construction activity in the vicinity of oil wells, oil pipelines, or water supply wells located within the Paulsell Project Site may require setbacks, protections, or decommissioning of the nearby well. However, as determined in the Hazardous Materials Assessment prepared for the Paulsell Project, compliance with applicable local, state, and federal laws, rules, and regulations would ensure the Paulsell Project does not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials from oil wells, oil pipelines, or water supply wells on site. Therefore, for the reasons discussed above, no new impact would occur during construction of the Paulsell Project.

Operation

During operation, the Paulsell Project would include an O&M building, which would include the transport, use, and storage of minimal amounts of hazardous materials, including, but not limited to, cleaning chemicals used and stored on site for routine cleaning purposes, motor vehicle fuel, lubricants, antifreeze, coolant, and herbicides, which was not analyzed in the 2010 IS/MND. However, hazardous materials are highly regulated in California, including the methods by which they are transported, used, and stored. Further, the application of herbicides for vegetation management, if required, is regulated by the California Department of Pesticide Regulation and would be required to be carried out by a licensed individual. As such, adherence to applicable regulations would ensure that no new impact would occur during operation of the Paulsell Project.

- c. No New Impact. The Paulsell Project would not result in emission or handling of hazardous materials within 0.25 miles of a school. The nearest school to the Paulsell Project Site is Bonita Elementary School, located at 425 Fink Road, approximately 3.5 miles to the east. As such, the Paulsell Project would not emit hazardous emissions within 0.25 miles of an existing or proposed school. Furthermore, as discussed in thresholds (a) and (b), the Paulsell Project would not pose a significant risk of release of hazardous materials. Therefore, no new impact would occur.
- d. No New Impact. Per the 2010 IS/MND, the Original Project Site is not located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, and no impact would occur. The Paulsell Project would be located on the same Project Site. A Hazardous Materials Assessment was conducted by Dudek for the Paulsell Project in March 2021 (Appendix G1) to confirm the results of the Phase I Environmental Site Assessment ("ESA") (Appendix G2) conducted for the Beltran Solar Energy Center by Dudek in November 2018, which included the Paulsell Project Site. During preparation of the Hazardous Materials Assessment, Dudek conducted a search of regulatory databases compiled pursuant to Government Code Section 65962.5, which list hazardous waste and substances sites. The Paulsell Project Site was not identified in any of the Cortese List databases (Appendix G1).

In addition to Cortese list sites, EnviroStor and GeoTracker provide environmental information on release and cleanup cases in the State of California. Dudek also reviewed each of these databases for hazardous materials sites, and no sites were identified on the Paulsell Project Site (Appendix G1).

One site was identified north of the Paulsell Project Site, the Fink Road Landfill, which is a solid waste disposal site. As discussed in the Phase I ESA, there is a potential that trace volatile organic compound contamination at Fink Road Landfill has impacted the groundwater beneath the landfill (Appendix G2). Additionally, the most recent groundwater monitoring report (SCS 2020) confirmed trace concentrations of volatile organic compounds in groundwater. Any nonpotable water used for Paulsell Project purposes would not require testing prior to site application (e.g., panel washing); however, if water to be used for potable purposes

would be derived from groundwater wells located in proximity to the Fink Road Landfill, depending on the water system classification for potable use, the Paulsell Project would be required to comply with requirements outlined in Title 22 of CCR Section 64554, New and Existing Source Capacity, which includes well water testing. Therefore, no new impact would occur.

e. No New Impact. The 2010 IS/MND stated that no public airport or airport land use plan is located in the vicinity of the Paulsell Project Site. However, in 2018, the Crows Landing Naval Air Station, located on the east side of I-5 approximately 2.25 miles from the Paulsell Project Site, was approved to be converted to a public use airport—the Crows Landing Airport. Based on an amendment to the Airport Land Use Compatibility Plan ("ALUCP") in 2018, the Paulsell Project Site is located within Review Area 2 for the Crows Landing Airport. Review Area 2 includes locations where airspace protection and/or overflight are compatibility concerns, but noise and safety are not (Stanislaus County 2016).

The Project Site falls within both the Airspace Protection and Overflight Notification Zones as delineated in the ALUCP (Stanislaus County 2018). Overflight policies do not apply to nonresidential development. However, FAA notification is required for development within the Airspace Protection Zones, depending on the height of the proposed development. Paulsell Project components, including the overhead transmission line, would be approximately 150 feet in height, and Crow Creek Solar will comply with the FAA notification process prior to Project construction. Upon notification of the FAA, the proposed Paulsell Project would not result in conflicts to the ALUCP that could result in a safety hazard.

Development of the Paulsell Project also has potential to increase visual hazards within the Paulsell Project Site. As discussed in Section 5.1, Aesthetics, the Solar PV panels would be manufactured with an anti-reflective coating that would minimize glare. In addition, the new overhead transmission line proposed as part of the Paulsell Project would be similar in height and proximity to existing aboveground electrical infrastructure located within the Paulsell Project Site associated with the operational Scatec Westside Phase I Project and existing Crow Creek Switching Station. Further, PG&E may also need to install FAA obstruction lighting on some or all of the new transmission structures associated with the overhead transmission line, in accordance with FAA requirements. Upon compliance with applicable FAA design requirements, the interconnection tie-ins would not create a safety hazard for people working in the Project area or relative to aircraft flight patterns. As such, the Paulsell Project would not result in visual or height hazards that would adversely impact activities associated with the Crows Landing Airport. Impacts would be less than significant, and no new impact would occur.

- f. No New Impact. The 2010 IS/MND concluded that the Approved Project would not interfere with an adopted emergency response plan during either construction or operational activities and no impacts would occur. However, the County approved an emergency operations plan ("EOP") in 2001. Most recently, the EOP was revised in 2019 (Stanislaus County 2019). The EOP focuses on operational concepts to be implemented relative to large-scale disasters, which can pose a threat to life, property, and the environment requiring unusual emergency responses. The Paulsell Project would not include development of any residential structures or include changes to any roadways that would affect emergency responses or evacuation approaches outlined in the EOP. As such, although impacts to the updated EOP were not analyzed in the 2010 IS/MND, implementation of the Paulsell Project would have no impact to emergency response plans or emergency evacuation plans, and no new impact would occur.
- **g. No New Impact.** See Section 5.19 for discussion regarding wildfire impacts.

5.10 Hydrology and Water Quality

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
X. Hydrology and Water Quality – Would th	· · · · · · · · · · · · · · · · · · ·	·
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	Less Than Significant Impact	No New Impact
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	Less Than Significant Impact	No New Impact
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:		
 i) result in substantial erosion or siltation on or off site; 	Less Than Significant Impact	No New Impact
 substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site; 	Less Than Significant Impact	No New Impact
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	Less Than Significant Impact	No New Impact
iv) impede or redirect flood flows?	No Impact	No New Impact
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	No Impact	No New Impact
 e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? 	Less Than Significant Impact	No New Impact

a. No New Impact. As discussed in Section IX of the 2010 IS/MND, the Approved Project would not violate any waste discharge requirements or otherwise degrade surface or groundwater quality. The Paulsell Project would result in a 25% increase to the Original Footprint within the Original Project Site, and development of additional components beyond that analyzed in the 2010 IS/MND, including the BESS, O&M building, overhead transmission line, collector substation, and other ancillary facilities or equipment. Construction-related activities have the potential to temporarily impair water quality from disturbed and eroded soil, petroleum products, or construction-related wastes (e.g., solvents) that could be discharged into receiving waters or onto the ground where they can be carried into receiving waters. However, consistent with the Approved Project, the Paulsell Project would prepare a SWPPP, which would outline BMPs to minimize and control post-construction runoff and reduce potential temporary and short-term impacts associated with

violation of any water quality standards or water discharge requirements to a less than significant level. Therefore, with preparation of a SWPPP and implementation of BMPs, no new impact would occur.

b. No New Impact. As discussed in Section IX of the 2010 IS/MND, the Approved Project would not substantially deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in an aquifer volume. Additionally, the amount of water utilized for the Approved Project would be significantly less than required for the existing agricultural uses.

The Paulsell Project, similar to the Approved Project, would primarily obtain water imported to the site using water trucks. Water would likely be provided from either the OFWD or Del Puerto Water District ("DPWD"). Correspondence with DPWD indicates that water for construction-related purposes from either district may be available on a first-come, first-served basis, but this availability can only be confirmed in the year prior to the time of construction, based on the available allocation for that year (Appendix H). Therefore, while there is a possibility that water could be obtained from either DPWD or OFWD for construction-related purposes, neither water district is able to provide a guarantee or written commitment (e.g., will-serve letter), because availability is dependent on water year type (Appendix H). However, the proposed Paulsell Project would use on-site groundwater as the secondary source of water for construction and O&M. Groundwater could be obtained through one or more of the following means:

- Using one or more of the existing groundwater wells adjacent to the site located on the Beltran Farms property, if they are serviceable, adequately constructed, and provide sufficient yield.
- Redeveloping existing wells or drilling new wells on site to provide adequate yield, per Stanislaus County Well Permitting and Construction Standards.
 - Sourcing groundwater from an off-site well(s) for delivery to the Paulsell Project Site (either via water truck or water line).

Groundwater usage would be minimal as solar panels are only expected to be washed once per year. At most, solar panels would be washed up to four times per year based on site conditions. The proposed Paulsell Project would use up to 60 acre-feet per year for construction water demand and up to 20 acre-feet per year for long-term water demand including panel washing, fire suppression, and site maintenance (the water demand for which would be negligible). As discussed in the Water Supply Assessment ("WSA") prepared for the Paulsell Project and similar to the Approved Project, water demand estimates would be significantly lower than the existing water demand for the existing agricultural uses on the Paulsell Project Site (Appendix H). Therefore, in both the local and regional context, the available groundwater within the San Joaquin Valley Groundwater Basin —whether obtained directly from on-site groundwater wells or indirectly from one or more off-site well owners—is adequate to supply both the construction and/or O&M demands of the Paulsell Project. Thus, the Paulsell Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin. Therefore, no new impact would occur.

- **c.** See discussions for each subsection below.
 - No New Impact. As discussed in Section IX of the 2010 IS/MND, the Approved Project would not alter existing drainage patterns of the course of any streams or rivers. The Approved Project would incorporate vegetation beneath the Solar PV panels to allow for maximum percolation into the ground and minimize stormwater runoff flows and erosion. Additionally, drainage swales or other buffer techniques would be incorporated to prevent any potential runoff into Crow Creek or onto other adjacent parcels.

Although the Paulsell Project would result in a 25% increase to the Original Footprint within the Original Project Site, and development of additional components beyond that analyzed in the 2010 IS/MND, including the BESS, overhead transmission line, 0&M building, collector substation, and other ancillary facilities or equipment, the Paulsell Project would incorporate similar stormwater features such as vegetation under Solar PV panels, swales, and detention basins to assist with stormwater treatment and infiltration, similar to the Approved Project. Further, as described above, the Paulsell Project would prepare a SWPPP and implement BMPs to minimize erosion, siltation, and contaminated runoff. Therefore, no new impact would occur.

ii) No New Impact. As discussed in Section IX of the 2010 IS/MND and described above, the Approved Project would not alter existing drainage patterns of the course of any streams or rivers. The Approved Project would incorporate vegetation under the Solar PV panels to allow for maximum percolation into the ground and minimize stormwater runoff flows and erosion. Additionally, drainage swales or other buffer techniques would be incorporated to prevent any potential runoff into Crow Creek or onto other adjacent parcels. Under the Approved Project, on-site or off-site flooding impacts were determined to be less than significant.

Although the Paulsell Project would result in a 25% increase in the Original Footprint within the Original Project Site, the Paulsell Project would also incorporate stormwater features such as vegetation under Solar PV panels, swales, and detention basins to assist with stormwater treatment and infiltration and reduce impacts to on-site or off-site flooding to less than significant, similar to the Approved Project. Therefore, no new impact would occur.

- iii) No New Impact. As discussed in Section IX of the 2010 IS/MND and described above, ground-disturbing activities under the Approved Project would have the potential to allow soil or runoff to enter adjacent streams or rivers. Although the Paulsell Project would result in a 25% increase in the development footprint within the Original Project Site, the Paulsell Project would also incorporate stormwater features such as vegetation under Solar PV panels, swales, and detention basins to assist with stormwater treatment and infiltration, similar to the Approved Project. Further, the Paulsell Project, similar to the Approved Project, would prepare a SWPPP and implement BMPs to minimize erosion, siltation, and contaminated runoff. Therefore, no new impact would occur.
- iv) No New Impact. As discussed in Section IX of the 2010 IS/MND and described above, the Approved Project would not alter existing drainage patterns of the course of any streams or rivers. Additionally, the Paulsell Project Site is not located within the 100-year flood hazard area. The Project Site is located within Zone X, which is defined as areas determined to be outside the 0.2% annual chance floodplain. There are no 100-year flood zones in the vicinity of the proposed Paulsell Project Site. Furthermore, as described under threshold (c)(ii) above, the Paulsell Project, similar to the Approved Project, would also incorporate stormwater features such as vegetation under Solar PV panels, swales, and detention basins to assist with stormwater treatment and infiltration and reduce impacts to on-site or off-site flooding to less than significant. Additionally, the Paulsell Project would prepare a SWPPP and implement BMPs to minimize and control post-construction runoff. Although the Paulsell Project would result in a 25% increase to the Original Footprint within the Original Project Site, the Paulsell Project would be located within the same site boundaries as identified in the 2010 IS/MND, which is not located in a floodplain. Therefore, no new impact would occur.
- d. No New Impact. As discussed in Section IX of the 2010 IS/MND, the Original Project Site is not located in areas subject to inundation by flood hazard, seiche, or tsunami. Although the Paulsell Project would result in a 25% increase to the Original Footprint within the Original Project Site, the Paulsell Project would be located within the same site boundaries as identified in the 2010 IS/MND. Therefore, implementation of

- the Paulsell Project would not risk release of pollutants due to inundation by flood hazard, seiche, or tsunami. No new impact would occur.
- e. No New Impact. As discussed in the above hydrology and water quality thresholds analysis, all potential water quality impacts from development of the proposed Paulsell Project would be less than significant, and no new impacts would occur. Therefore, the proposed Paulsell Project would not conflict with or obstruct implementation of a Water Quality Control Plan or Sustainable Groundwater Management Plan. Therefore, no new impact would occur.

5.11 Land Use and Planning

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XI. Land Use and Planning – Would the pro	eject:	
 a) Physically divide an established community? 	No Impact	No New Impact
b) 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?	Less Than Significant Impact	No New Impact

- a. No New Impact. As discussed in Section X of the 2010 IS/MND, the Original Project Site is designated agricultural, zoned General Agriculture (A-2), and currently consists of agricultural uses and the operational Phase I of the Approved Project. There are no residences on or adjacent to the Project Site. Further, no established communities exist in the vicinity of the Paulsell Project Site that would be affected by the Paulsell Project. The Project Site is surrounded by vacant and undeveloped land and some agricultural uses. A Class II/III landfill for nonhazardous municipal solid waste (Fink Road Landfill) is located approximately 0.5 miles north of the Project Site. However, the landfill is not part of an established community and expansion would not impact the Paulsell Project. I-5, land used for agriculture, and the Crow's Landing Airport are located to the east and northeast of the Paulsell Project Site. The Crow's Landing Naval Air Station was approved to be converted to a public use airport and industrial business park in 2018—the Crows Landing Industrial Business Park (Stanislaus County 2018). The Paulsell Project would be entirely located west of I-5 and would not physically divide any portion of the Crows Landing Industrial Business Park. Therefore, implementation of the Paulsell Project, similar to the Approved Project, would not divide an established community, and no new impact would occur.
- Project would not result in conflicts with adopted land use plans, policies, and regulations. The County General Plan was updated in 2015 and designates the Paulsell Project Site and the surrounding area as Agriculture Stanislaus County 2015); the site is zoned A-2, as was the case in 2010 for the Approved Project. This designation allows public utility infrastructure with a CUP (Stanislaus County Zoning Ordinance, Section 21.20.030j). Crow Creek Solar proposes to amend the existing CUP for the Approved Project to allow development of the Paulsell Project, as described in Section 3, Paulsell Solar Energy Center, of this addendum. Prior to development, Crow Creek Solar would obtain a CUP as part of the Paulsell Project.

In addition, the Paulsell Project Site is located within Review Area 2 of the Crows Landing Airport, based on the 2018 ALUCP update (Stanislaus County 2018). Review Area 2 includes locations where airspace

protection and/or overflight are compatibility concerns, but noise and safety are not (Stanislaus County 2018). However, the Paulsell Project Site falls within both the Airspace Protection and Overflight Notification Zones as delineated in the County ALUCP (Stanislaus County 2018). Overflight policies do not apply to nonresidential development. However, FAA notification is required for development within the Airspace Protection Zones depending on the height of the proposed development. Paulsell Project components, including the overhead transmission line, would be approximately 150 feet in height, and Crow Creek Solar is required to undergo the FAA notification process to receive a Determination of No Hazard to Navigation prior to Project construction. Upon receipt of a Determination of No Hazard to Navigation from the FAA, the proposed Paulsell Project would not conflict with adopted land use plans, policies, and regulations. Impacts would be less than significant, and no new impact would occur.

5.12 Mineral Resources

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XII. Mineral Resources – Would the project:		
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	No Impact	No New Impact
b) 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?	No Impact	No New Impact

- a. No New Impact. Per Section XI of the 2010 IS/MND, the California Division of Mines and Geology mapped the Original Project Site as being located in an area with no known significant mineral resources. The Paulsell Project is within the same boundary approved by CUP No. 2010-09 as for the Approved Project. Additionally, the Paulsell Project Site is not located within an area known to be underlain by regionally or locally important mineral resources. Therefore, the proposed Paulsell Project would not result in the loss of availability of a known mineral resource. Therefore, no new impact would occur.
- **b. No New Impact.** As discussed in the response to threshold (a), the proposed Paulsell Project would not result in the loss of availability of a locally important mineral resources recovery site. Therefore, no new impact would occur.

5.13 Noise

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XIII. Noise - Would the project:		
 a) 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? 	Less Than Significant Impact	No New Impact
b) Generation of excessive groundborne vibration or groundborne noise levels?	Less Than Significant Impact	No New Impact

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XIII. Noise - Would the project:		
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	No Impact	No New Impact

a. No New Impact. As discussed in Section XII of the 2010 IS/MND, the Approved Project would not result in a substantial permanent increase in ambient noise levels in the Paulsell Project Site and vicinity as Solar PV panel operations, including maintenance activities, are anticipated to emit negligible noise levels. Additionally, it is anticipated that operation of the Approved Project would emit less ambient noise than the existing area noise sources (e.g., traffic on I-5, operations at Fink Road Landfill).

The proposed Paulsell Project would increase the development footprint within the same site boundary as that previously analyzed under the Approved Project, as well as include the addition of a BESS, overhead transmission line, 0&M building, collector substation, and other ancillary facilities or equipment that would involve additional construction beyond that analyzed in the 2010 IS/MND. As discussed in the 2010 IS/MND, noise levels in the Paulsell Project Site would increase during construction due to the use of construction equipment and vehicles. The same would be true for the proposed Paulsell Project. However, there are no permanent residences or other sensitive receptors on the Project Site or in the immediate vicinity. The closest sensitive receptor to the Paulsell Project Site is a residence located approximately 1.5 miles southeast of the Paulsell Project Site. During construction, noise levels would attenuate with distance and are not anticipated to exceed the allowable noise level limits at the nearest noise-sensitive receptor during daytime activities under the County Noise Element and County Code. Additionally, due to distance between the nearest sensitive receptor and the Paulsell Project Site, long-term ambient noise levels under the Paulsell Project would be similar to the Approved Project upon completion of Project construction. Project components would also be decommissioned and removed upon expiration of the solar energy farm's equipment life and therefore would not create a permanent change in the ambient noise levels of the Project area. Although there would be a temporary and short-term increase in ambient noise levels during construction activities, noise levels would be less than the noise level limits established by the County. Therefore, temporary and permanent changes in ambient noise levels associated with the proposed Paulsell Project would not exceed standards established in the local general plan or noise ordinance, or applicable standards of other agencies. No new impact would occur.

b. No New Impact. As determined in Section XII of the 2010 IS/MND, the Approved Project would result in a less than significant impact associated with excessive groundborne vibration or groundborne noise. Vibration or groundborne noise may be generated from operation of heavy vehicles and construction equipment during site preparation and solar panel installation activities. Components of the proposed Paulsell Project, including the BESS, overhead transmission line, O&M building, and collector substation would result in similar groundborne vibrations as the components of the Approved Project analyzed in the 2010 IS/MND. The nearest sensitive receptor is a residence located approximately 1.5 miles southeast of the Paulsell Project Site. At this distance, any vibrations from construction activities would not be perceptible and would not exceed the California Department of Transportation-recommended standards

(Caltrans 2013, 2020). No long-term groundborne vibration or noise would occur during operation of the Paulsell Project, similar to the Approved Project. Therefore, because the temporary construction vibration associated with on-site equipment would not be anticipated to expose sensitive receptors to or generate excessive groundborne vibration or groundborne noise levels, no new impact would occur.

c. No New Impact. The 2010 IS/MND stated that no public airport or airport land use plan is located in the vicinity of the Paulsell Project Site. However, in 2018, the Crows Landing Naval Air Station, located on the east side of I-5 approximately 2.25 miles from the Paulsell Project Site, was approved to be converted to a public use airport—the Crows Landing Airport. Based on an amendment to the ALUCP in 2018, the Paulsell Project Site is located within Review Area 2 for the Crows Landing Airport. Review Area 2 includes locations where airspace protection and/or overflight are compatibility concerns, but noise and safety are not (Stanislaus County 2016). Therefore, the proposed Paulsell Project, similar to the Approved Project, would not expose people to excessive noise levels. No new impact would occur.

5.14 Population and Housing

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XIV. Population and Housing – Would the pr	oject:	
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	No Impact	No New Impact
 b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? 	No Impact	No New Impact

- a. No New Impact. As discussed in Section XIII of the 2010 IS/MND, no population and housing impacts would occur as a result of the Approved Project. The Paulsell Project consists of solar energy facilities, consistent with the Approved Project, and would not include construction of any new homes or businesses. In addition, operation of the solar energy facility would require a limited number of employees to maintain the facility. The Paulsell Project also would not induce population growth in the area. Therefore, no new impact would occur.
- b. No New Impact. As discussed in Section XIII of the 2010 IS/MND, there are no existing residences on or surrounding the Project Site. Therefore, implementation of the Approved Project would not displace people or housing. The proposed Paulsell Project would be located within the same site boundaries as identified in the 2010 IS/MND. Therefore, the Paulsell Project would not displace a substantial number of people or existing housing, requiring construction of replacement housing. No new impact would occur.

5.15 Public Services

		Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XV.	Public Services - Would the project:		

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
a) Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:		
1) Fire Protection?	Less Than Significant Impact	No New Impact
2) Police Protection?	Less Than Significant Impact	No New Impact
3) Schools?	No Impact	No New Impact
4) Parks?	No Impact	No New Impact
5) Other Public Facilities?	No Impact	No New Impact

See discussions for each subsection below.

- 1. No New Impact. As discussed in Section XIV of the 2010 IS/MND, the Approved Project would not result in a population increase that would increase the use of or demand for existing public services. The same would be true for the proposed Paulsell Project, as no population inducement would occur as a result of the increased development footprint, BESS, overhead transmission line, O&M building, or collector substation. However, Condition of Approval 25 of the Approved Project required payment of the West Stanislaus County Fire Protection District ("Fire Protection District") standard CEQA development fee and the standard annual fire suppression assessment for any new building constructed on the Paulsell Project Site. The Paulsell Project would also be required to pay development fees in accordance with Condition of Approval 25. Additionally, emergency access roads would be included as safety measures for operation of the proposed Paulsell Project, for access during construction, and for maintenance vehicles. Access roads would comply with State and County Standards, in accordance with Condition of Approval 27 of the Approved Project. Additionally, any proposed gates would comply with the Fire Protection District's lock box standards, in accordance with Condition of Approval 28 of the Approved Project. Therefore, no new impact would occur.
- 2. No New Impact. As discussed in Section XIV of the 2010 IS/MND, the Approved Project was determined to result in a less than significant impact to the County Sheriff's Department. Development of a solar energy farm is not anticipated to produce an appreciable increase of service calls for the County Sheriff's Department. The increased development footprint and addition of a BESS, overhead transmission line, O&M building, and collector substation would not result in additional service calls for the Sheriff's Department compared to what was previously analyzed in the 2010 IS/MND. Therefore, no new impact would occur.
- 3. No New Impact. As discussed in Section XIV of the 2010 IS/MND, the Approved Project was determined to result in no impact on schools. Development of a solar energy farm would have no effect on existing local schools and would not result in the need for new schools. The increased development footprint and addition of a BESS, overhead transmission line, O&M building, and collector substation would also have no effect on existing local schools and would not result in the need for new schools. Therefore, no new impact would occur.
- **4. No New Impact.** As discussed in Section XIV of the 2010 IS/MND, the Approved Project would have no impact on parks. Development of a solar energy farm would have no effect on the use of parks in the

- area, as population inducement would not occur with implementation of the Approved Project. The increased development footprint and addition of a BESS, overhead transmission line, O&M building, and collector substation would also have no effect on parks in the area. Therefore, no new impact would occur with development of the proposed Paulsell Project.
- 5. No New Impact. As discussed in Section XIV of the 2010 IS/MND, due to a lack of increase in population, the development of the Approved Project would not adversely affect the provision of other public facilities, such as libraries or recreational facilities. The increased development footprint and addition of a BESS, overhead transmission line, O&M building, and collector substation proposed under the Paulsell Project would also not adversely affect the provision of other public facilities. Therefore, no new impact would occur with development of the proposed Paulsell Project.

5.16 Recreation

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XVI. Recreation - Would the project:		
a) Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	No Impact	No New Impact
b) Does the Project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?	No Impact	No New Impact

- a. No New Impact. As discussed in Section XV of the 2010 IS/MND, the Approved Project would not induce population growth or construct new residential dwelling units that could impact existing public recreational facilities. The increased development footprint and addition of a BESS, overhead transmission line, O&M building, and collector substation proposed under the Paulsell Project would also not adversely affect the provision of other public facilities. As such, the proposed Paulsell Project would have no new impact on existing recreational facilities.
- b. No New Impact. The proposed Paulsell Project would not include construction of new recreational facilities or the construction or expansion of recreational facilities (see response to threshold [a]). Therefore, no new impact would occur.

5.17 Transportation/Traffic

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XVII. Transportation/Traffic - Would the proj	ect:	
 a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? 	Less Than Significant Impact	No New Impact

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XVII. Transportation/Traffic - Would the proj	ect:	
b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	Not Applicable*	No New Impact
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	No Impact	No New Impact
d) Result in inadequate emergency access?	No Impact	No New Impact

Note:

a. No New Impact. As discussed in Section XVI of the 2012 IS/MND, traffic generated by the Approved Project would be primarily associated with construction activities. The only effects of Project construction traffic around the Paulsell Project Site would be from entry and exit of construction vehicles from Fink Road, which would be temporary and short term. A transportation/traffic technical memorandum was prepared for the Paulsell Project (see Appendix C, Traffic Technical Memorandum) to confirm transportation/traffic impacts would not deviate substantially compared with what was determined in the 2010 IS/MND. This section summarizes the updated traffic analysis, which accounts for the development footprint increase and the addition of the BESS, overhead transmission line, O&M building, collector substation, and other ancillary facilities or equipment.

Construction: Table 3 in Appendix C provides the Project trip generation for the peak period of construction. Based on review of construction phasing, schedule, and information available for cumulative projects in the study area, it was determined that Paulsell Project construction could potentially overlap with the construction of Beltran Solar Energy Center and the San Luis Transmission Line project. Cumulative trip generation is estimated to be approximately 152 daily trips during the overlap of construction, with 61 AM peak-hour trips, and 61 PM peak-hour trips. The cumulative trip generation is estimated to be approximately 198 PCE daily trips, with 67 PCE trips during the AM peak hour and 67 PCE trips during the PM peak hour. Table 4 in Appendix C provides the cumulative projects trip generation.

Existing plus Project Conditions. A discussion of traffic count methodology and raw traffic counts can be found in Appendix C. An analysis of Existing plus Project conditions was conducted by adding peak construction Project traffic to existing AM and PM peak hour traffic counts at the five study area intersections and two freeway segments. Results of the intersection and freeway segment operations analysis are provided below.

Intersection Operations Analysis. As shown in Table 5 of Appendix C, with the addition of the Paulsell Project construction traffic, all intersections would operate at LOS B or better, even with the increase in daily trips and daily trips of cumulative projects. Raw LOS worksheets can be found in Appendix C.

Freeway Segment Operations Analysis. As shown in Table 6 of Appendix C, with the addition of Project construction traffic, all freeway segments would operate at LOS C or better, even with the increase in daily trips and daily trips of cumulative projects. Raw freeway segment analysis worksheets can be found in Appendix C.

Furthermore, based on LOS criteria and thresholds for the California Department of Transportation and the County, all of the study area intersections and freeway segments analyzed in Appendix C are forecast to continue to operate at an acceptable LOS (LOS C or better) with the addition of construction-related traffic associated with the Paulsell Project. Since all study area intersections and freeway segments would

^{*} Transportation/Traffic threshold (b), regarding VMT, was added as a new resource area as of December 2018 per updates to Appendix G of the CEQA Guidelines, after the adoption of the 2010 IS/MND.

continue to operate at acceptable LOS during construction, the proposed Paulsell Project would not conflict with programs, plans, ordinances, or policies addressing the circulation system, similar to the Approved Project. No new impact would occur.

Operation: Similar to the Approved Project, operation of the proposed Paulsell Project would be primarily associated with maintenance activities, which would include equipment testing, equipment monitoring and repair, and emergency and routine procedures for service continuity and preventative maintenance. Additionally, operation of the proposed Paulsell Project would require occasional vegetation clearing and solar panel washing. However, maintenance activities would be infrequent and would result in minimal traffic trips. The Paulsell Project would also include an O&M building, which is anticipated to require a maximum of three permanent staff employees for ongoing facility monitoring, equipment storage, and repairs. However, daily trips from a maximum of three permanent on-site employees would be insignificant.

Therefore, because the proposed Paulsell Project would generate minimal operational traffic trips, all study area intersections and freeway segments would continue to operate at acceptable LOS during operation. Therefore, the proposed Paulsell Project would not conflict with programs, plans, ordinances, or policies addressing the circulation system, similar to the Approved Project. No new impact would occur.

b. No New Impact. CEQA Guidelines Section 15064.3(b) focuses on newly adopted criteria VMT for determining the significance of transportation impacts. Per CEQA Guidelines Section 15064.3, analysis criteria detailed in this CEQA Guidelines section became applicable on July 1, 2020, unless adopted earlier by the lead agency. Therefore, the Approved Project's conflicts or inconsistencies with regard to the provisions of CEQA Guidelines Section 15064.3(b) were not analyzed in the 2010 IS/MND.

Construction: The majority of trips (for workers and trucks) would occur during construction, which would last approximately 8 months. Impacts related to increase in vehicle-trip generation (for workers and trucks) as a result of Paulsell Project construction have been analyzed under threshold (a). Per OPR, heavy vehicle traffic is not required to be included in the estimation of a project's VMT. As noted above, worker and vendor trips would generate VMT, but once construction (and decommissioning) is completed, the construction-related traffic would cease, and VMT would return to pre-construction conditions. Therefore, VMT generated from construction traffic would be temporary and short term. Further, it should be noted that OPR does not require quantitative assessment of temporary construction traffic. As such, the Paulsell Project would not conflict or be inconsistent with CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3), and impacts would be less than significant. No new impact would occur.

Operation

Operation: Upon completion of construction, operational traffic from the proposed Paulsell Project would be minimal. Operational traffic would be primarily associated with as-needed maintenance activities and Solar PV panel washing. Based on OPR's Technical Advisory on Evaluating Transportation Impacts in CEQA, December 2018, Screening Threshold for Small Projects, projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less than significant transportation impact (OPR 2018). Operation of the Paulsell Project would not generate significant number of trips and thereby not cause substantial amount of VMT. Therefore, the operation of the Paulsell Project would not conflict or be inconsistent with CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3), and impacts would be less than significant. No new impact would occur.

c. No New Impact. As discussed in the 2010 IS/MND, the Approved Project would not include any geometric design features or incompatible uses that would result in substantially increased traffic hazards. The Approved Project would also include new internal all-weather maintenance and emergency access roads, as would the Paulsell Project. Access into the Paulsell Project would be provided through the existing 20-foot-wide paved Davis Road from Fink Road to its western terminus. Primary access to the Paulsell Project would be provided through an access gate along Davis Road.

Access into the Paulsell Project would be provided through the existing 20-foot-wide paved Davis Road from Fink Road to its western terminus. The access road system would be set back 10 feet from the edge of each tracking array. The design of access roads would meet all applicable regulations and requirements for such access, which include the California Fire Code and the Stanislaus County Code (Chapter 16.15). The Paulsell Project does not include any geometric design features that would create a hazard, such as sharp turns or narrow widths. Additionally, the Paulsell Project would not contain any uses that would be incompatible with surrounding uses, creating a substantial hazard. Therefore, no new impact would occur.

d. No New Impact. As discussed in the 2010 IS/MND, occasional vehicle access to the site for Solar PV panel washing, vegetation maintenance, and other maintenance activities would be required. The Paulsell Project would include the construction of access roads, as previously described, that would connect to Davis Road. Additionally, during preparation of the 2010 IS/MND, the Fire Protection District was consulted regarding the proposed access roads on the Original Project Site for their feedback and approval on the design. Emergency access would be provided through three main gates secured by a Knox Box as directed by the Fire Protection District. The Paulsell Project would also be required to comply with such design requirements. Therefore, the Paulsell Project would not affect emergency access to the Original Project Site, and no new impact would occur.

5.18 Utilities and Service Systems

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion	
XVIII. Utilities and Service Systems - Would the project:			
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	No Impact	No New Impact	
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	No Impact	No New Impact	
c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	No Impact	No New Impact	
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	No Impact	No New Impact	
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	No Impact	No New Impact	

- a. No New Impact. As discussed in Section XVII of the 2010 IS/MND, the Approved Project would not require expansion of existing water or wastewater facilities. The Approved Project assumed water would be used for Solar PV panel washing and would be supplied by the OFWD. Water would be either be trucked to the site from an off-site source or would be derived from on-site wells. The Paulsell Project would be primarily supplied water trucked in from either OFWD or DPWD, and water would be used for construction activities, such as dust suppression and earthwork, and for operational Solar PV panel washing. Water usage would be minimal as Solar PV panels would be washed one to four times per year based on site conditions. The Paulsell Project would also use on-site groundwater as the secondary source of water for construction and O&M. Groundwater could be obtained through one or more of the following means:
 - Using one or more of the existing groundwater wells adjacent to the site located on the Beltran Farms property, if they are serviceable, adequately constructed, and provide sufficient yield.
 - Redeveloping existing wells or drilling new wells on site to provide adequate yield, per Stanislaus County Well Permitting and Construction Standards.
 - Sourcing groundwater from an off-site well(s) for delivery to the Paulsell Project Site (either via water truck or water line).

Based on the Paulsell Project's water demand of 60 acre-feet per year for construction and 20 acre-feet per year for long-term operation, groundwater sources (individually or combined) would need to yield approximately 25 gallons per minute for the approximately 10-month construction period, and 13 gallons per minute for operations. As discussed in the WSA prepared for the Paulsell Project, the groundwater basin can yield this amount of groundwater without adverse impacts to other users in the basin (Appendix H). Additionally, water demand estimates would be significantly lower than the existing water demand for the existing agricultural uses on the Paulsell Project Site. Therefore, in the event that new or expanded groundwater wells would be constructed to service the Paulsell Project, this construction and/or expansion would not cause a significant environmental effect.

The Paulsell Project would also include a BESS, 0&M building, collector substation, and overhead transmission line. The 0&M building is anticipated to require a maximum of three permanent on-site employees for ongoing facility monitoring, equipment storage, and repairs. However, this increase in employees on site would be minimal and is not anticipated to result in an increased demand for water and wastewater services. Therefore, consistent with the 2010 IS/MND, the Paulsell Project would not result in the need for new or expanded water or wastewater facilities that would result in significant environmental impacts. No new impact would occur.

Furthermore, as discussed in the 2010 IS/MND and described above in Section 5.10, Hydrology and Water Quality, the construction of new stormwater drainage facilities or expansion of existing facilities would not be required as grading and drainage would direct Project-related runoff to flow within the historic drainage shed for the Project area. Additionally, the Paulsell Project would incorporate vegetation beneath the PV panels to allow for maximum percolation into the ground and minimize stormwater runoff flows and erosion. The Paulsell Project would also prepare a SWPPP and implement BMPs to minimize and control post-construction runoff. Thus, proposed Paulsell Project would not require the construction or expansion of new stormwater drainage facilities.

The proposed Paulsell Project would include the construction of new electric power facilities, as the Project is a solar energy facility and would require connections to distribute energy to the power grid. However, these new electric power facilities, including the BESS, overhead transmission line, and collector substation are all components of the Project, and the environmental impacts of such components are analyzed in this

addendum. The Project would not result in the need for new or expanded electric power facilities that could cause significant environmental impacts that are not analyzed and mitigated for herein.

Finally, the proposed Paulsell Project would not require the construction of new or expanded natural gas. The Paulsell Project is a solar energy facility and would not require the use of natural gas. Additionally, the proposed Paulsell Project would not include any telecommunications facilities or require the construction or expansion of telecommunications facilities. As such, the Paulsell Project would not result in additional environmental impacts compared to the 2010 IS/MND. Therefore, no new impact would occur with regard to new or expanded water, wastewater, stormwater drainage, electric power, natural gas, or telecommunications facilities.

b. No New Impact. As discussed in Section XVII of the 2010 IS/MND, existing uses on the Original Project Site that demand water include agricultural uses. Upon construction of the proposed Paulsell Project, all agricultural uses would cease, similar to the Approved Project.

Construction of the Paulsell Project would result in water consumption of approximately 60 acre-feet per year for dust suppression and earthwork activities. Additionally, during Paulsell Project operations, solar panel washing is expected to occur one to four times per year. While it is expected that Solar PV panels would only be washed once per year, the panels may need to be washed more frequently (up to four times per year) based on site conditions. With four wash cycles per year, the annual water use is expected to consume up to approximately 20 acre-feet of water (Appendix H). Additionally, minimal water would be required for operation of the proposed O&M building.

A WSA has been prepared for the Paulsell Project and is included as Appendix H to this addendum. Water usage at the site would be substantially reduced compared to existing demand. Additionally, as discussed in the WSA prepared for the Paulsell Project, the Paulsell Project would be primarily supplied water trucked in from either the OFWD or DPWD. Secondary water supplies for the Paulsell Project would be obtained from one of the three groundwater options listed above under Threshold (a). Between water supplies from OFWD, DPWD, and groundwater, there would be sufficient water supplies to serve the Paulsell Project and reasonably foreseeable future development.

With development of the Paulsell Project, water use associated with existing farming activities would cease. Since water usage at the Paulsell Project Site would be substantially reduced compared to existing demand, the Paulsell Project would result in a net savings of water consumption. Because water usage at the Paulsell Project Site would be reduced compared to existing conditions and there would be sufficient water supplies to serve the Paulsell Project, the Paulsell Project would have a less than significant impact on water supplies. No new impact would occur.

- c. No New Impact. The 2010 IS/MND determined that implementation of the Approved Project would not result in the need for new or expanded wastewater facilities. The Paulsell Project would involve the development of a BESS, overhead transmission line, O&M building, and collector substation, which would not require construction or expansion of any wastewater infrastructure. Development of the proposed O&M building would include permanent restroom facilities with septic tanks and/or portable toilets used for sanitary purposes. The use of a septic tank or portable toilets will not interfere with any wastewater treatment provider's service capacity. Therefore, no new impacts would occur.
- d. No New Impact. As discussed in Section XVII of the 2010 IS/MND, the Approved Project was determined to result in no impacts associated with solid waste disposal. The only potential solid waste that would be generated is the cardboard packaging from the Solar PV panels, associated with Project construction. Cardboard would be sent to an off-site recycling facility. Components of the proposed Paulsell Project would result in more cardboard as there would be more Solar PV panels. However, cardboard would be recycled

off site, similar to what was analyzed in the 2010 IS/MND. The Paulsell Project would introduce additional components at the Paulsell Project Site, including a BESS, overhead transmission line, O&M building, and collector substation that would also involve construction activities that could result in typical construction wastes. Such wastes would be recycled and disposed of off site. Upon completion of construction, the Paulsell Project would not result in continued generation of solid waste throughout the Project lifetime.

During decommissioning of the Project, the Solar PV system and BESS would be recycled at the expiration of the Project's life. Most parts of the proposed system are recyclable in accordance with Condition of Approval 20 of the 2010 Scatec Westside Solar Ranch CUP. Fuel, hydraulic fluids, and oils would be transferred directly to a tanker truck from the respective tanks and vessels. Storage tanks and vessels would be rinsed and transferred to tanker trucks. Other items that are not feasible to remove at the point of generation, such as smaller container lubricants, paints, thinners, solvents, cleaners, batteries, and sealants, would be kept in a locked utility structure with integral secondary containment that meets Certified Unified Program Agencies and Resource Conservation and Recovery Act requirements for hazardous waste storage until removal for proper disposal and recycling. It is anticipated that all oils and batteries would be recycled at an appropriate facility.

Transportation of the removed hazardous materials would comply with regulations for transporting hazardous materials, including those set by the U.S. Department of Transportation, the U.S. Environmental Protection Agency, California Department of Toxic Substances Control, California Highway Patrol, and California State Fire Marshal.

Therefore, the proposed Paulsell Project would not generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals, compared to the 2010 IS/MND. No new impact would occur.

e. No New Impact. As discussed in Section XVII of the 2010 IS/MND, the Approved Project was required to divert (recycle) 50% of solid waste generated by both construction and operation to comply with the 50% solid waste diversion rate mandated by the California Integrated Waste Management Act of 1989 (AB 939) and the Stanislaus County Source Reduction and Recycling Element. The proposed Paulsell Project would be required to comply with the same diversion rates. Additionally, as discussed in threshold (d) above, operation of the proposed Paulsell Project would not result in the generation of solid waste, and cardboard waste generated during Project construction would be recycled. Solid waste from decommissioning of the proposed Paulsell Project would either be recycled or disposed of in accordance with local, state, and federal regulations. Thus, the proposed Paulsell Project would comply with federal, state, and local management and reduction statutes and regulations related to solid waste, similar to the Approved Project. No new impact would occur.

5.19 Wildfire

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XIX. Wildfire - Would the project:		
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	No Impact	No New Impact

	Approved 2010 IS/MND Impact Conclusion	Paulsell Project IS/MND Addendum Impact Conclusion
XIX. Wildfire - Would the project:		
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	Not Applicable*	No New Impact
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	Not Applicable *	No New Impact
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	Not Applicable *	No New Impact

Note:

- * Wildfire was added as a new resource area as of December 2018 per updates to Appendix G of the CEQA Guidelines, after adoption of the 2010 IS/MND.
- a. No New Impact. As discussed in the 2010 IS/MND, specifically Section VIII(g) and Section XVI(e), the Approved Project would not impair an adopted emergency response plan or emergency evacuation plan. The addition of the BESS, overhead transmission line, O&M building, and collector substation would not result in additional obstructions, permanent occupants (and associated trip generation), or other factors that would impair an adopted emergency response plan or emergency evacuation plan. Additionally, as required by Condition of Approval 27 of the Approved Project, access roads would comply with state and County Standards. Additionally, any proposed gates would comply with the Fire Protection District's lock box standards, in accordance with Condition of Approval 28 of the Approved Project. The Paulsell Project would include the construction of access roads, as previously described, that would connect to Fink Road. The proposed Paulsell Project would also be required to comply with such design requirements and consultation with the Fire Protection District regarding fire and emergency access. As such, no new impacts would occur.
- b. No New Impact. As discussed in the 2010 IS/MND, specifically Section VIII(h), the Original Project site is located in a Moderate Fire Hazard Severity Zone. However, the Paulsell Project Site is not located in a Very High or High Fire Severity Zone (CAL FIRE 2007). The Paulsell Project would not include permanent on-site occupants (such as residents). Aside from the addition of the 0&M Building, which would result in three employees, the majority of Paulsell Project components would be unmanned and automated, and all monitoring would be done through the SCADA system. Periodic inspections and minimal maintenance activities would occur by off-site personnel. Additionally, in accordance with Conditions of Approval 24 and 30 of the Approved Project, the Paulsell Project would include a vegetation management plan and defensible space of 100 feet. Therefore, the Paulsell Project would not expose occupants to pollutant concentrations from a wildfire. No impacts would occur.
- c. No New Impact. Heat or sparks from construction equipment, vehicles, and the use of flammable hazardous materials have the potential to ignite adjacent vegetation, especially during weather events that include low humidity and high wind speeds. O&M of the proposed Paulsell Project would necessitate the use of

flammable materials and would introduce new ignition sources to the Project area, including the BESS, overhead transmission line, and collector substation.

The following design features would be incorporated as part of the Paulsell Project:

- During construction, water may be pumped directly into 2,000- to 4,000-gallon tank water trucks or stored in overhead, temporary, approximately 12,000-gallon water storage towers/tanks to assist in the availability of water for trucks and expedient filling.
- A Knox Box rapid entry system would be installed at the entry gate to the Original Project Site according
 to the Fire Protection District's stipulations. A Knox Box is a small, wall-mounted safe that holds access
 keys for firefighters and other emergency personnel to retrieve in urgent situations.
- All-weather maintenance and emergency access roads would be constructed for use by emergency first
 responders. The access roads would be 20 feet wide and be set back 10 feet from the edge of each tracking
 array. The design of these access roads would meet all applicable regulations and requirements for such
 access, which include the California Fire Code and the County Code (Chapter 16.15).
- Committed ongoing maintenance of all facility components for the life of the Paulsell Project.

Additionally, Conditions of Approval No. 21 through 30 related to fire protection will be implemented as required under the original CUP for the Approved Project.

Although new ignition sources would be introduced to the site, the proposed Paulsell Project is required to provide for a level of planning, ignition resistant construction, access, water availability, fuel modification, and construction materials and methods that have been developed specifically to allow safe development within these areas. The Paulsell Project meets and exceeds these requirements; based on the fire protection designs and measures integrated into the Paulsell Project, which minimize fire ignitions, the potential fire risk in the area is not expected to increase. The Paulsell Project would include the construction of access roads, as previously described, that would connect to Fink Road and would also be required to comply with such design requirements and consultation with the Fire Protection District. As a result, no new impacts would occur.

d. No New Impact. The proposed Paulsell Project would not include permanent on-site occupants (such as residents) or structures that would be affected by downslope or downstream flooding or landslides. An O&M building would be used by Paulsell Project employees; however, employees would not reside at the site. All other Project components would be unmanned and automated, and all Paulsell Project monitoring would be done through the SCADA system. Periodic inspections and maintenance activities would occur by off-site personnel. Therefore, the Paulsell Project would not expose people or structures to downslope or downstream flooding or landslides.

6 Mandatory Findings of Significance

Since the previous 2010 IS/MND was adopted, are there any changes in the project, changes in circumstances under which the project is undertaken, and/or "new information of substantial importance" that result in any mandatory finding of significance listed below?

a. Does the project degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

As detailed in the 2010 IS/MND and confirmed by the findings of the Biological Resources Report prepared for the proposed Paulsell Project, Project impacts would not substantially reduce the habitat of a fish or wildlife species. Furthermore, the Paulsell Project would not cause a fish or wildlife population to drop below self-sustaining levels. Also, the Paulsell Project is not expected to eliminate a plant or animal community or reduce the number or restrict the range of any special-status plants or wildlife. Construction activities would be largely limited to areas already disturbed by past agricultural uses. Although the proposed development footprint would be approximately 25% larger than that analyzed in the 2010 IS/MND and would involve development of additional components beyond that analyzed in the 2010 IS/MND, including the 0&M building, on-site collector substation, BESS, interconnection tie-ins, and other ancillary facilities or equipment, no new impacts are anticipated beyond that previously analyzed.

As discussed in Section 5.4, Biological Resources, through focused, species-specific surveys and assessments at the Paulsell Project Site, no special-status plant species were detected within the Paulsell Project Site during the focused botanical surveys conducted within the appropriate blooming periods (see Appendix D). A total of 15 special-status wildlife species were either observed or considered to have a moderate or high potential to occur on or in close proximity to the Original Project Site. Of the special-status wildlife species identified in the Biological Resources Report, six special-status wildlife species were previously analyzed in the 2010 IS/MND, including the San Joaquin kit fox, northern harrier, Swainson's hawk, white-tailed kite, loggerhead shrike, and burrowing owl. Pre-construction surveys would be conducted for all special-status species identified as having a potential to occur at the Paulsell Project Site, and the qualified biologist conducting the pre-construction surveys will prepare a wildlife survey report documenting the results of the surveys. The report summarizing the survey results will be submitted to the County prior to construction of the Paulsell Project. Moreover, although no burrows for San Joaquin kit fox were observed on the Paulsell Project Site during burrow assessment surveys conducted for the Paulsell Project, Mitigation Measures Nos. 1 through 9, as provided in Section IV of the 2010 IS/MND, would be implemented under the Paulsell Project to avoid and minimize impacts to San Joaquin kit fox. Additionally, Mitigation Measure No. 10 would also be implemented under the Paulsell Project to mitigate for migratory bird species during breeding season. Pre-construction surveys for both tree- and ground-dwelling bird species would be conducted in accordance with Mitigation Measure No. 10 if ground disturbance or tree removal occurs during breeding season. Finally, if species or nests are identified during pre-construction surveys, a qualified biologist would be required to make a determination on construction buffers and any further monitoring of burrows or nesting site(s) to ensure significant impacts to sensitive biological resources would not occur, in accordance with Mitigation Measures Nos. 1 through 10 of the Approved Project. Therefore, with implementation of previously approved Mitigation Measures 1 through 10 of the Approved Project, no new impacts beyond those previously identified in the 2010 IS/MND would occur.

b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Cumulative projects in the proposed Paulsell Project vicinity include the approved Proxima Solar Energy Center project, the approved Beltran Ranch Solar Facility Project, the existing Scatec Westside Solar Ranch Phase I Project, and the approved San Luis Transmission Project.

The Beltran Ranch Solar Facility Project, CUP No. 2011-11 (April 2013), permits the development of up to 140 MW within an approximately 606-acre development footprint on an approximately 1,720-acre project site. On February 21, 2018, Stanislaus County approved a 5-year extension to the start of construction to April 18, 2023.

The Scatec Westside Solar Ranch Project (including Phase I and Phase II), CUP No. 2010-09 (November 2010), permits the development of up to 50 MW within an approximately 382-acre development footprint that is surrounded by the Beltran Ranch Solar Facility. The first phase of the Scatec Westside Solar Ranch (CUP No. 2010-09) is currently in operation and consists of approximately 20 MW on 191 acres.

Lastly, the Western Area Power Administration is proposing to construct a new 230-kV transmission project known as the San Luis Transmission Project that will run adjacent to the east side of the existing PG&E 230-kV transmission lines that traverse the approved Proxima Project. Western Area Power Administration issued its record of decision for the San Luis Transmission Project; however, the timing for construction is unknown.

Both the Beltran Ranch Solar Facility and the Scatec Westside Solar Ranch Projects were previously analyzed under separate MNDs, and the County issued a CUP for each project. Each of the cumulative projects demonstrated that all impacts would be mitigated to a level that is less than significant, and when considered in combination, these cumulative impacts would not result in a potentially significant impact that would require additional mitigation to be implemented.

These cumulative projects when considered together would not result in visual impacts to motorist receptors traveling along I-5 because sufficient visual screening would be provided through project setbacks for the Proxima, Beltran Ranch, and Scatec solar projects. For these projects, all biological resource impacts would be reduced to a level that is less than significant, and each project would conduct pre-construction surveys prior to commencement of construction activities to ensure unanticipated significant impacts to biological resources, including special-status wildlife, would not occur. Each project would implement a construction WEAP and associated training, as well as previously adopted mitigation measures, to prevent significant impacts to inadvertent discoveries of cultural resources, Tribal Cultural Resources, and paleontological resources. Additionally, each individual project's construction and operational emissions would be below the SJVAPCD criteria air pollutant thresholds, which are thresholds established by the air district to ensure air pollutant emissions would not be cumulatively considerable.

Therefore, for these reasons, cumulative projects when considered together would not result in cumulatively considerable impacts requiring mitigation.

c. Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?

As discussed in the 2010 IS/MND, compliance with SJVAPCD rules and regulations would ensure impacts on human being would be less than significant, and the Paulsell Project's construction and operational emissions would be below the SJVAPCD criteria air pollutant thresholds. Similar to the Approved Project, the proposed Paulsell Project would produce renewable energy for use within the state and would assist the state in maintaining compliance with the Renewables Portfolio Standard as described in CARB's 2017 Scoping Plan. The approved Proxima Project would also assist the California Public Utilities Commission in achieving its renewable energy mandates and provide additional energy to PG&E's portfolio to provide more reliable service to its customers. Therefore, the Paulsell Project would not result in environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly.

7 Determination

As demonstrated in this addendum, the changes proposed do not meet the criteria for preparing a supplemental or subsequent IS/MND. The only changes in the environmental analysis include the addition of a collector substation, BESS, O&M building, and expansion of the Original Footprint by 25%. The following summarizes why none of the conditions described in CEQA Guidelines Section 15162 would occur.

1. No Substantial Project/Impact Changes (14 CCR 15162[a][1]). There are no substantial changes proposed in the Paulsell Project that will require major revisions to the previous 2010 IS/MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

The proposed addition of a collector substation, BESS, O&M building, and expansion of the Original Footprint by 25% will not result in new or more severe significant effects that would require major revisions to the existing 2010 IS/MND. Each of the Paulsell Project components would be located within the previously approved Original Project Site.

The 2010 IS/MND determined that all impacts would be less than significant, except as they relate to air quality, biological resources, cultural resources, geology and soils, hazardous and hazardous material, hydrology and water quality, and utilities and service systems. Stanislaus County adopted 46 Mitigation Measures and/or Conditions of Approval to reduce impacts to less than significant and avoid significant and unmitigatable impacts. Crow Creek Solar has reviewed these measures along with the broader IS/MND and CUP Conditions of Approval and has found that each document/requirement is still as valid today as when they were adopted/approved in November 2010.

To document the lack of any new or more severe significant effects, Crow Creek Solar has performed protocol-level biological resource surveys and a jurisdictional delineation to determine if there are new resources that were not previously identified or analyzed as part of the 2010 IS/MND; none were identified that cannot be avoided through Project design. Additionally, the Project has been designed to avoid all potential waters of the United States and waters of the state.

Moreover, Crow Creek Solar has performed a quantitative air quality and GHG assessment and a traffic impact analysis to document no new significant environmental effects or any substantial increase in the severity of previously identified significant effects. Each of these technical analyses, including the biological report and jurisdictional waters delineation, are included as appendices to this addendum.

2. No Substantial Change in Circumstances (14 CCR 15162[a][2]). No substantial changes to the circumstances regarding the Project have taken place that would require major revisions of the previous 2010 IS/MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

The Paulsell Project Site and surrounding land uses are generally consistent with the descriptions included in the 2010 IS/MND. Land use is primarily agricultural, with large areas under cultivation including almond orchards. The natural communities that were present in 2010 remain consistent with the present day as a result of continued agricultural production activities.

Adjacent land uses also remain unchanged. The northern-adjacent property consists of almond orchards and vacant undeveloped land. Undeveloped land used for cattle ranching continues in the surrounding area. The Fink Road Landfill, a Class II/III landfill for nonhazardous municipal solid waste located approximately 1 mile north of the Paulsell Project Site, remains. I-5 and land used for agriculture remain unchanged to the east of the Paulsell Project Site.

3. No New Information of Substantial Importance (14 CCR 15162[a][3]). There is no new information of substantial importance that was not known or could not have been known at the time of the existing 2010 IS/MND that shows the Paulsell Project would have one or more significant effects not discussed in the existing 2010 IS/MND or significant effects previously examined would be substantially more severe than shown in the existing 2010 IS/MND.

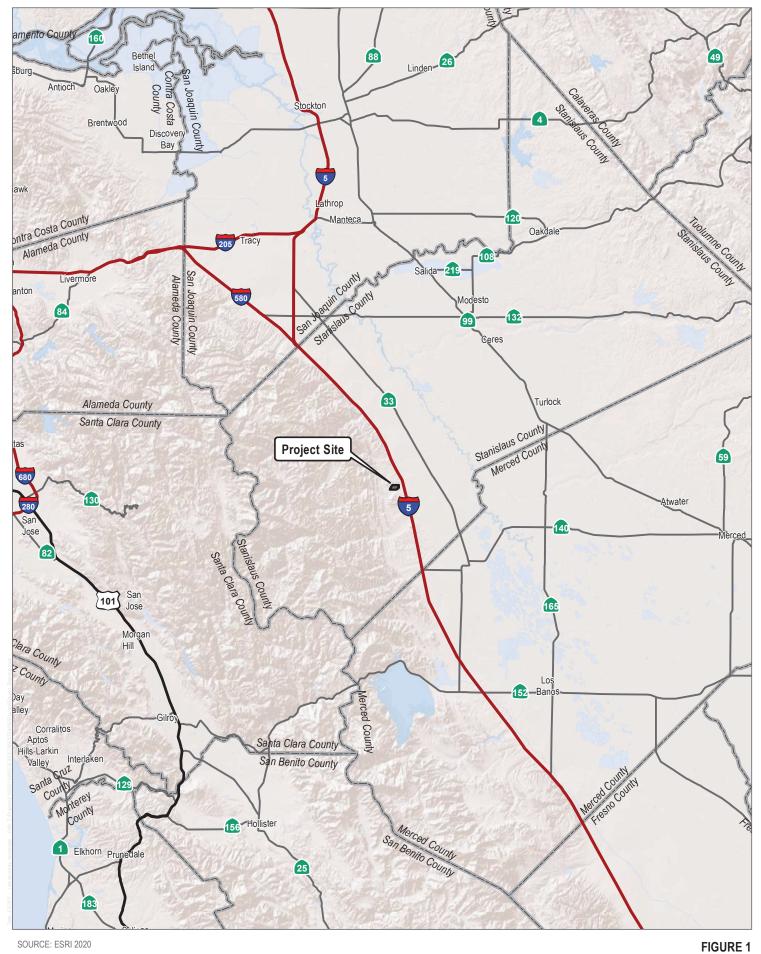
Therefore, overall impacts associated with the Paulsell Project remain relatively unchanged as compared to the previously Approved Project. Through this addendum to the 2010 IS/MND, the proposed Paulsell Project complies with CEQA, and a subsequent or supplemental MND is not required.

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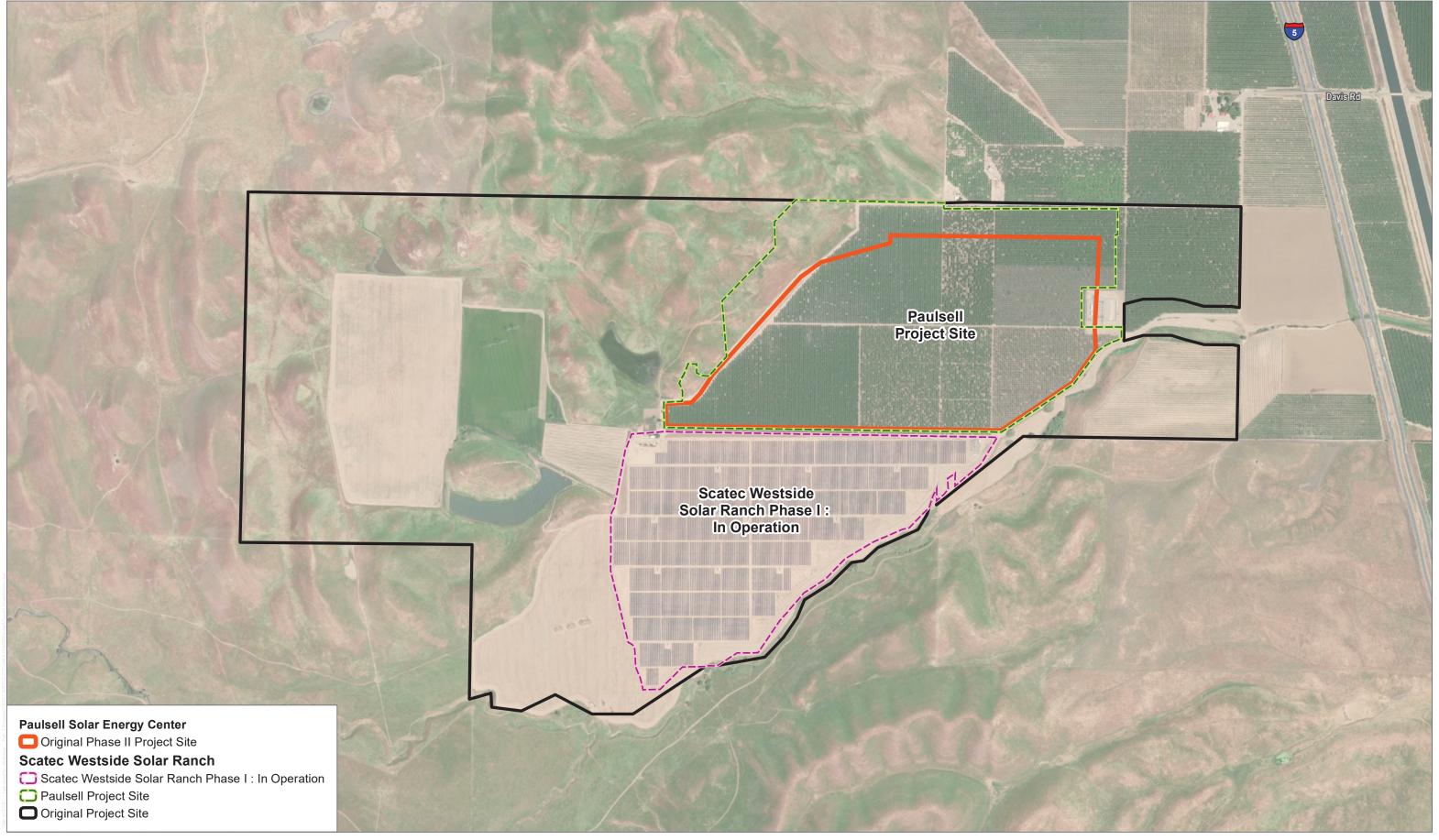
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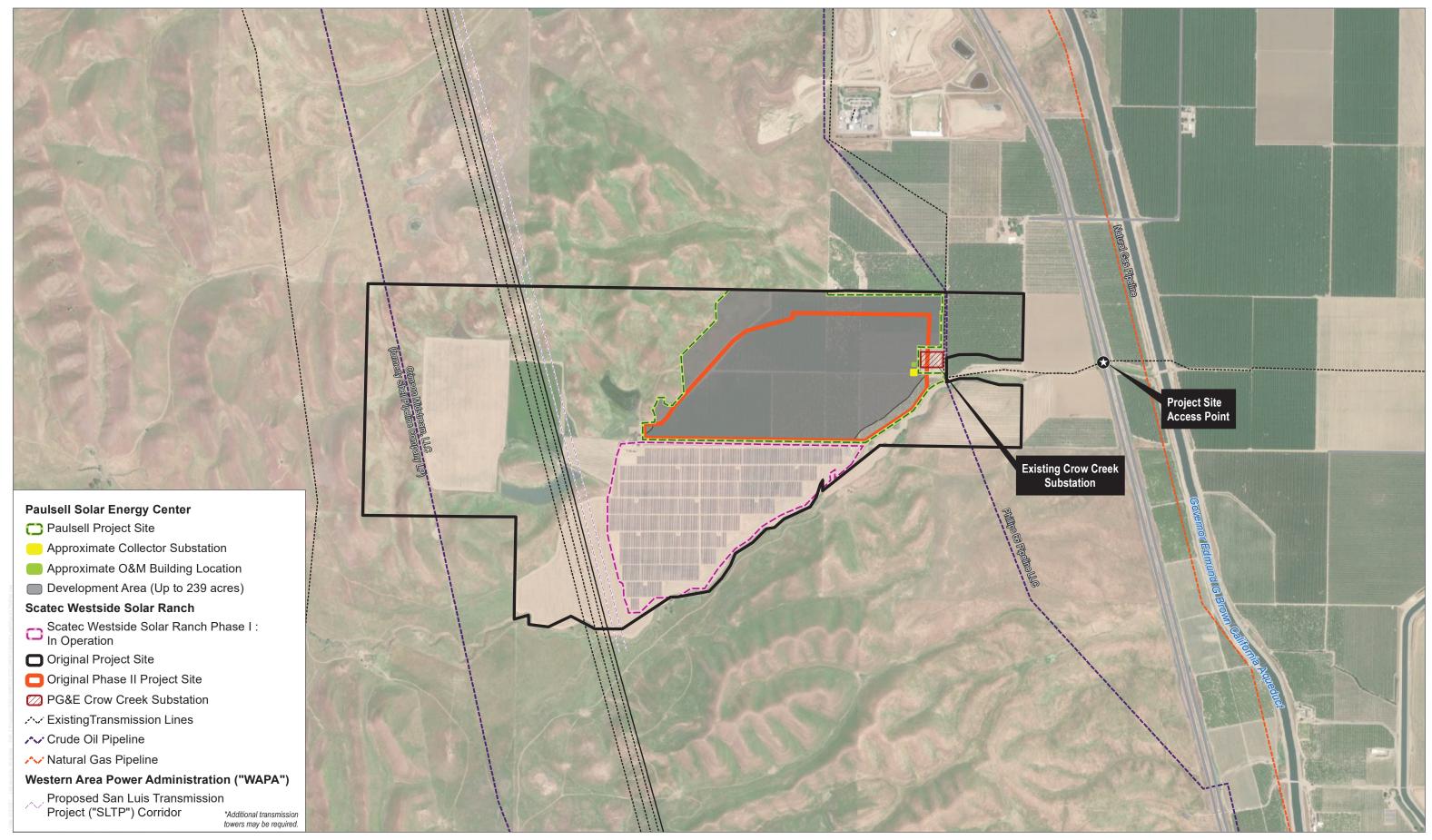
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Project Location



SOURCE: Esri Aerial Imagery, Stanislaus County 2018

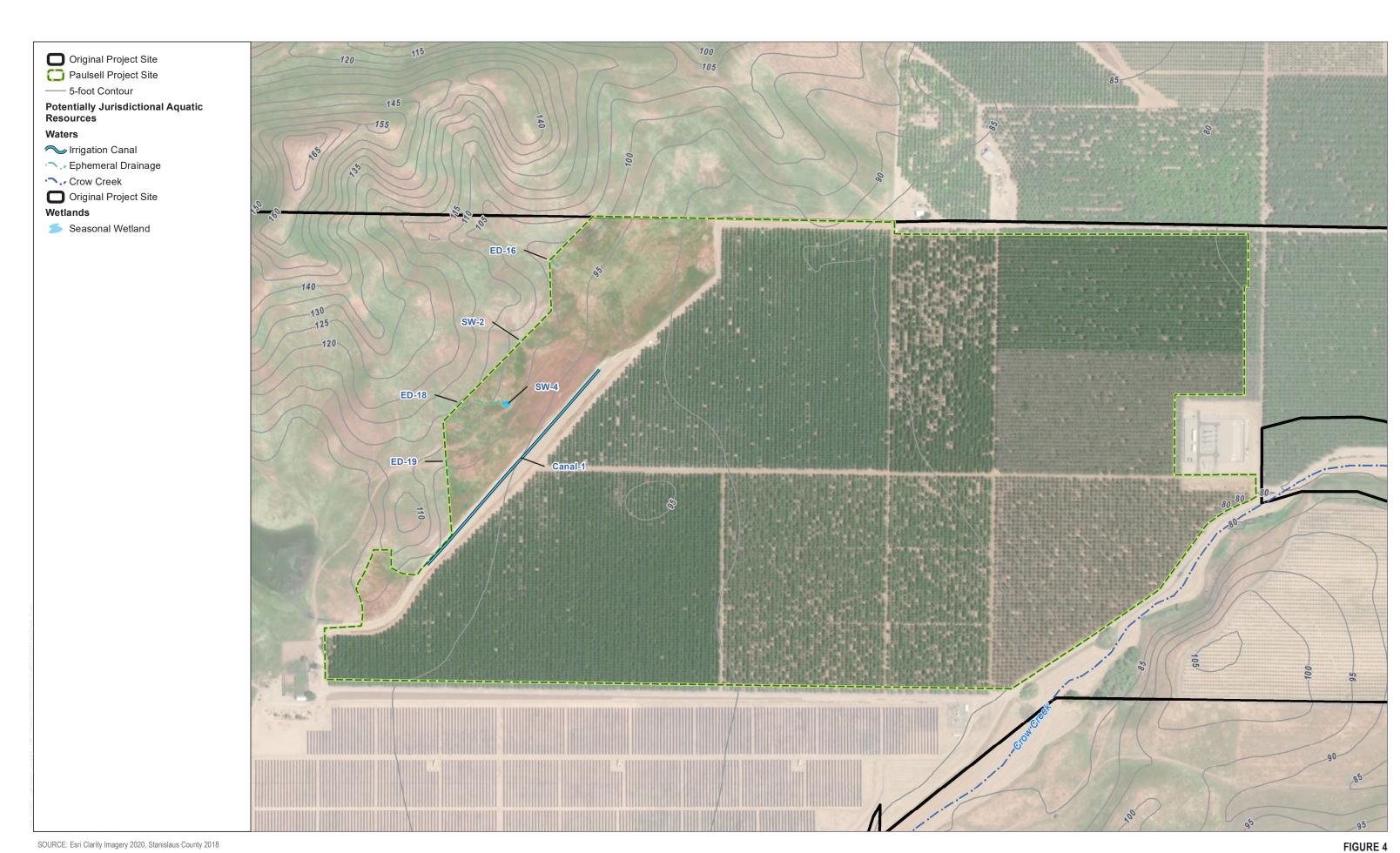
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SOURCE: Esri Aerial Imagery, NEER 2019

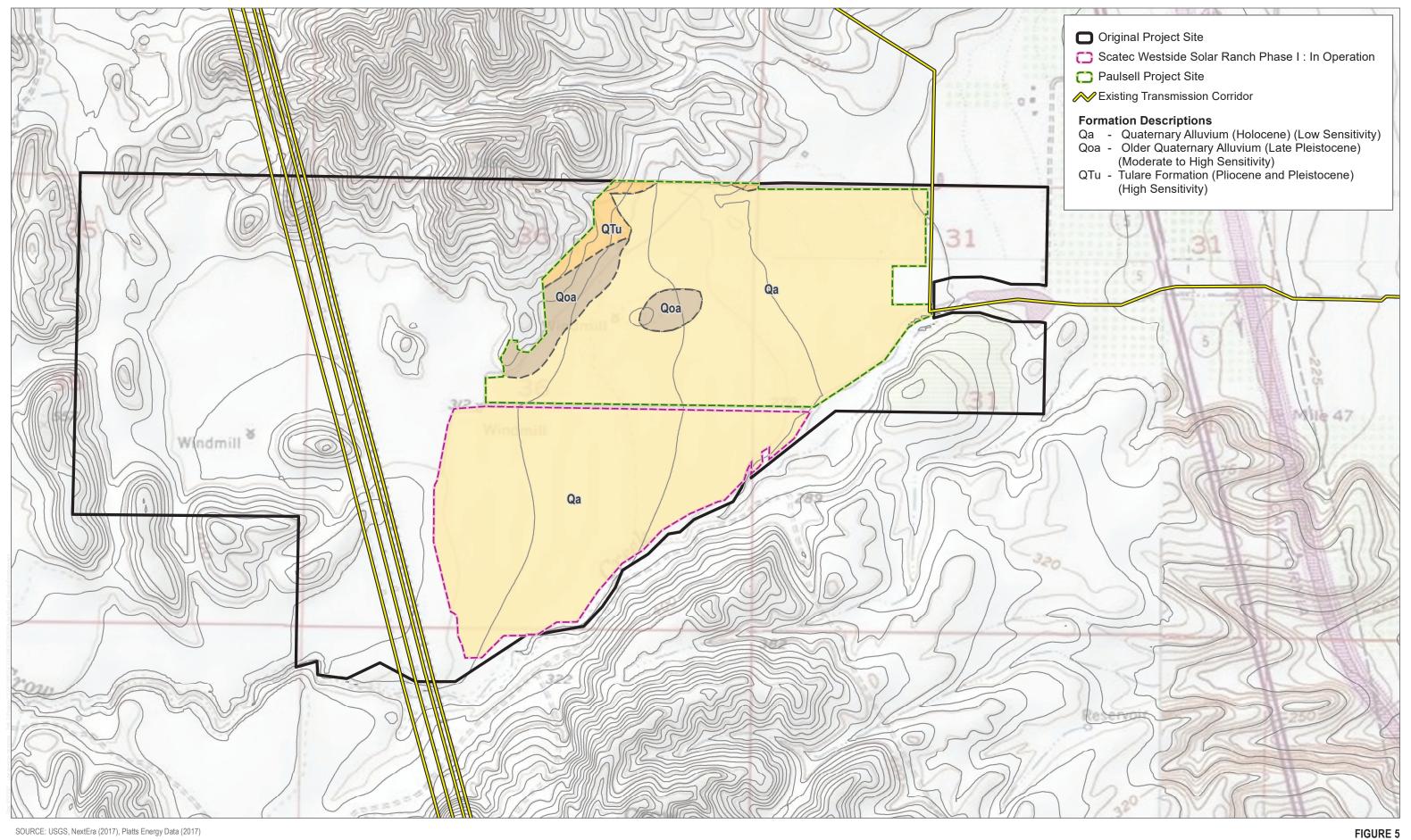
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FIGURE 3



SOURCE: Esri Clarity Imagery 2020, Stanislaus County 2018





SOURCE: USGS, NextEra (2017), Platts Energy Data (2017)

Appendix A

Project Description Details

Project Description Paulsell Solar Energy Center Stanislaus County, California

Prepared for:

Crow Creek Solar, LLC

Prepared by:



APRIL 2021

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1 Summary

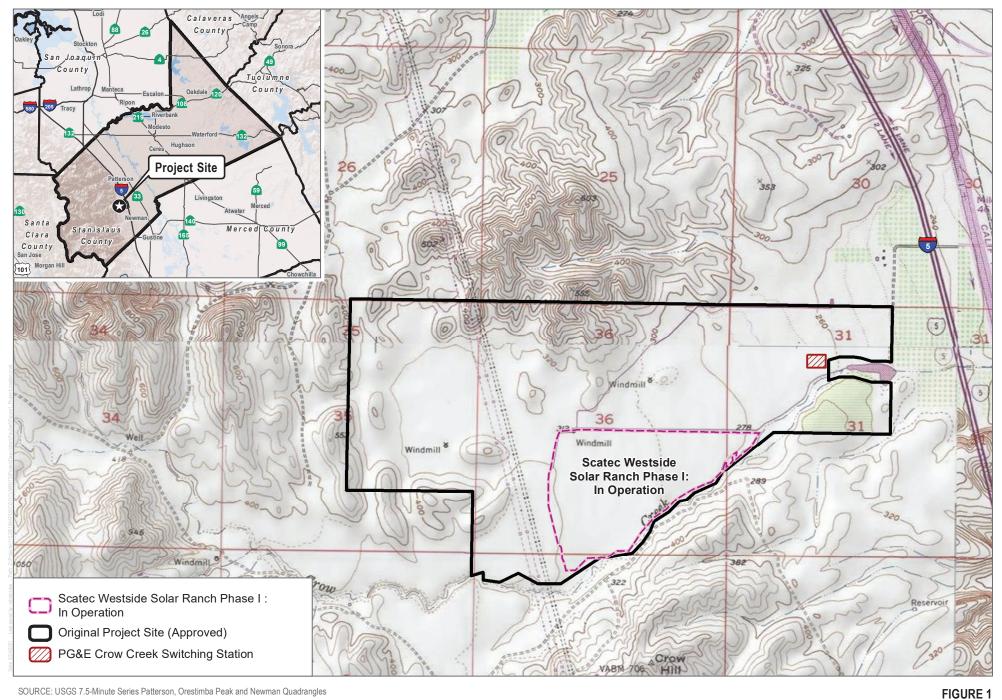
Crow Creek Solar, LLC ("Crow Creek Solar") proposes to amend the existing conditional use permit ("CUP") for the Scatec Westside Solar Ranch ("Approved Project"), approved by Stanislaus County ("County") in November 2010 and supported by an adopted mitigated negative declaration ("MND") through a County Staff Approval Permit. The proposed Paulsell Project is designed to generate up to 20 megawatts of electricity on approximately 232 acres and would require support facilities consisting of access roads, fencing, medium-voltage stations, a project collector substation, a battery energy storage system ("BESS"), an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, operations and maintenance ("O&M") building, supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment.

The Paulsell Project would be located on a site covered by an existing MND titled Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration ("2010 MND"). The CUP for the Approved Project (No. 2010-09) allows for the construction, operation, and decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre site, which was part of the original Scatec Westside Solar Ranch CUP ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project will be constructed on approximately 232 acres within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND. The Original Project Site is shown on Figure 1, Project Location, and Figure 2, Vicinity Map. The Approved Project is shown on Figure 3. The Paulsell Project Site, which would be located entirely within the Original Project Site, is shown on Figure 4.

The Paulsell Project includes a solar energy facility similar to the Approved Project. The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres, as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed. This increase will be contained entirely within the area previously analyzed and approved for the Original Project Site in the 2010 MND. The Paulsell Project also includes the potential development of additional support facilities, as described above. The development area would accommodate these additional support facilities. Other than access roads and fencing, these ancillary facilities were not evaluated in the 2010 MND, nor approved in the 2010 CUP. However, based on the evaluation contained in this Addendum, these ancillary facilities, as well as other modifications to the proposed solar facility, would not increase potential project impacts to significant levels, or result in any new significant effects.

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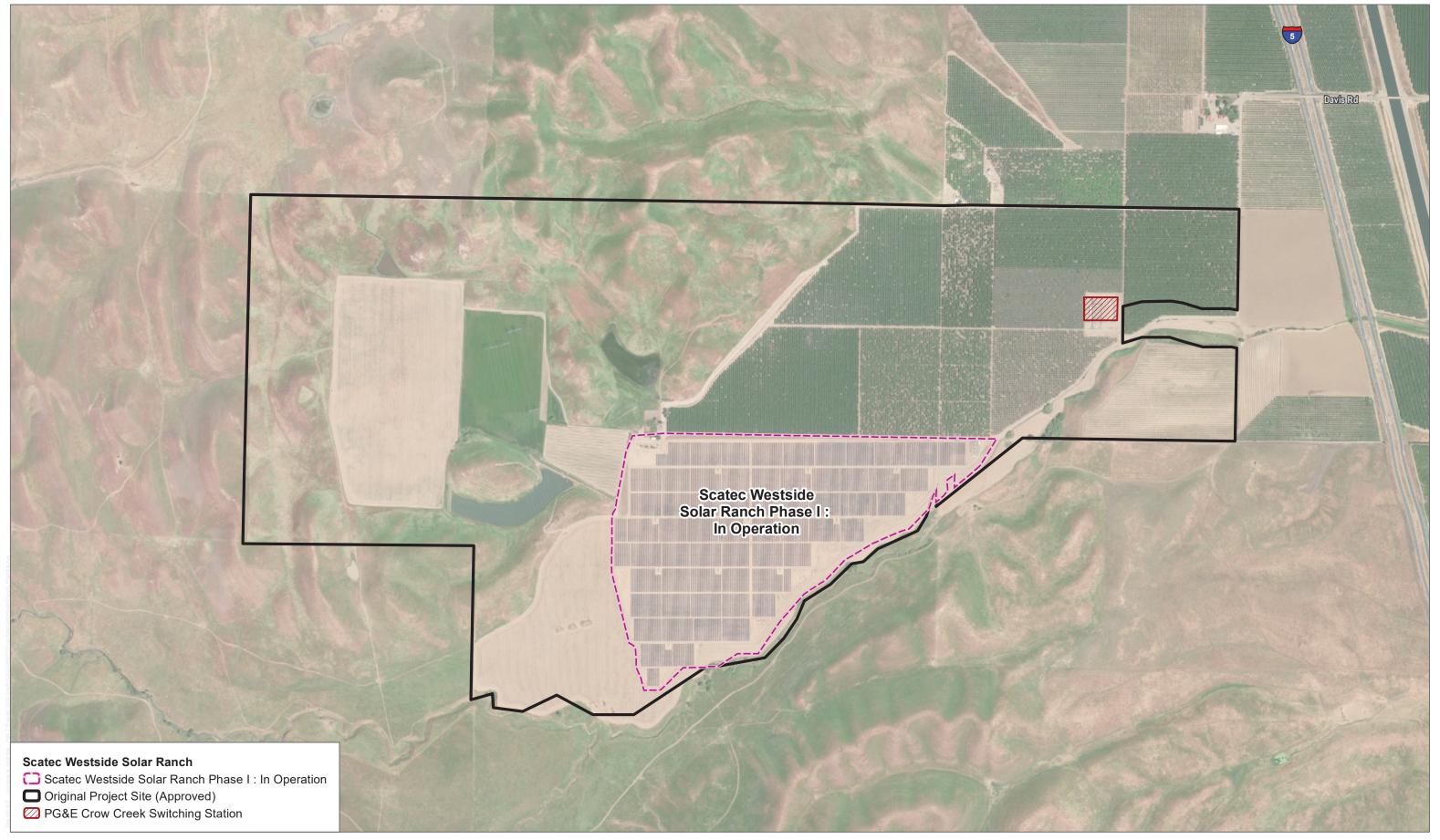
SOURCE: USGS 7.5-Minute Series Patterson, Orestimba Peak and Newman Quadrangles

Project Location

Paulsell Solar Energy Center

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SOURCE: Esri Aerial Imagery, Stanislaus County 2018

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2 Location

The Paulsell Project is located off Davis Road in unincorporated Stanislaus County, southwest of the Fink Road Sanitary Landfill operated by Stanislaus County, west of Interstate 5 ("I-5") and the California Aqueduct, in the Newman/Crows Landing area. The Paulsell Project Site would be located within the Original Project Site, which encompasses four Assessor's parcels with a combined acreage of approximately 1,132 acres. Each of the Assessor's parcels is privately owned and listed in Table 1, below; the existing PG&E Crow Creek Switching Station has its own Assessor's parcel (027-017-091), which is also listed in the table below.

Table 1. Assessor's Parcel Numbers ("APNs") within Original Project Site

APNs	
025-017-019	027-017-090
026-012-003	027-017-091

2.1 Summary of the Approved Project – Scatec Westside Solar Ranch

The existing CUP for the Scatec Westside Solar Ranch ("Approved Project") (No. 2010-09) was approved by the County in November 2010 and supported by an Initial Study and MND to allow for the construction, operation, maintenance, and decommissioning of a Solar PV energy facility known as the Scatec Westside Solar Ranch.

The Initial Study identifies two geographically distinct phases for the Approved Project. Phase I has been constructed and is currently in operation. It was estimated that both phases would take approximately 8 months each to construct. The Scatec Westside Solar Ranch Proposed Phasing Plan, shown on Figure 3, delineates the Original Project Site and shows Phase I (operational) and Phase II (approved), included as part of the Original Footprint. A summary of the Approved Project phasing areas is provided below in Table 2.

Table 2. 2010 Scatec Westside Solar Ranch Initial Study/Mitigated Negative Declaration Proposed Phasing

Phase	Acreage
1	191
2	191
Total	382

Source: Stanislaus County 2010.

As shown on Table 2, and the Proposed Phasing Plan, the Approved Project included a total disturbance area of 382 acres.

The following facilities for the Approved Project are currently operational: Scatec Westside Solar Ranch Phase I and PG&E's Crow Creek Switching Station, both of which are located within the Original Project Site.



2.2 Project Setting

Land Use

The location of the Original Project Site is situated on the western edge of the San Joaquin Valley, where croplands of the valley floor transition to the rangelands of the inner Coast Ranges to the west. Land use in the Original Project Site is primarily agricultural, including areas cultivated for nuts and field crops. As previously described, Phase I of the Approved Project has been completed and is currently an operational solar energy facility. The Phase II portion of the Approved Project is a current agricultural use consisting of walnut and almond orchards.

The natural communities that were historically present have been substantially altered as a result of agricultural production activities. The Approved Beltran Ranch Solar Facility surrounds the entire Original Project Site. The Fink Road County Landfill, a Class II/III landfill for nonhazardous municipal solid waste, is located approximately 0.6 miles north. Dry, open, undeveloped land is present to the west. Crow Creek and other Nature Conservancy lands that the Approved Project has been designed to fully avoid are located to the south. I-5 and land used for agriculture are located to the east of the Original Project Site. Scattered rural residences occur east of I-5.

Climate

The climate of the Paulsell Project region is typical of the Central Valley of California, with hot dry summers and cool, mild winters. Daytime temperatures in the summer are often in the upper 90° Fahrenheit, and some highs extend into the low 100s. Nighttime lows are typically in the 60s. In winter, daytime temperatures are usually in low 40s. Precipitation averages approximately 12 inches, and rainfall occurs mostly in the months of December and January.

Topography

The Original Project Site is located in the eastern foothills of the Diablo mountain range within a small valley between foothills to the north and south. The topography of the Original Project Site is characterized by an overall gradual slope to the east. Elevations range from approximately 270 feet above mean sea level to approximately 320 feet above mean sea level.

Soils

According to the U.S. Department of Agriculture Natural Resources Conservation Service (USDA 2020), there are 13 different soil units mapped within the Project region: Alo-Vaquero Complex: 30% to 50% slopes; Calla-Carbona Complex: 30% to 50% slopes; Capay Clay (Loamy Substratum): 0% to 2% slopes; Chaqua-Arburua Complex: 8% to 15% slopes; Damluis Gravelly Loam Clay: 2% to 8% slopes; Damluis Gravelly Loam Clay: 8% to 15% slopes; Elsaldo Loam (Rarely Flooded): 0% to 2% slopes; Vernalis Loam: 0% to 2% slopes; Vernalis Clay Loam: 0% to 2% slopes; Vernalis Clay Loam (Wet): 0% to 2% slopes; Vernalis-Zacharias Complex: 0% to 2% slopes; Wisflat-Arburua-San Timoteo Complex: 30% to 50% slopes; and Zacharias Clay Loam: 2% to 5% slopes.

The majority of the Original Project Site consists of four of the above-referenced soil units as follows: Vernalis-Zacharias Complex, which is well-drained soils formed in alluvium from mixed rock sources; and Vernalis Loam, Vernalis Clay Loam, and Damluis Gravelly Loam Clay, all of which consist of well-drained soils formed in alluvium from mixed sources (USDA 2020).



Hydrologic Features

The hydrology within the Original Project Site has been substantially altered by agricultural land uses and associated activities, such as leveling and ditching. Surface runoff from the site generally drains northeast/east through overland flow and constructed agricultural ditches. The Paulsell Project does not include changes to the existing drainage pattern. The runoff from the PV panels would generally be redistributed directly into the slow-growing vegetation beneath the structures, which will allow for maximum percolation into the ground. Drainage swales or other buffer techniques would be incorporated into the Project design to prevent any potential runoff into Crow Creek or on to adjacent parcels. Drainage carried by these ditches is conveyed under I-5, east of the site, through two culverts that connect to a series of channels and ditches, which are tributary to the San Joaquin River, and ultimately, San Francisco Bay, a traditional navigable water of the United States.

Generally, there are no wetlands or significant waterways within the boundaries of the Original Project Site. The seasonal Crow Creek traverses the Beltran Farms property (through Assessor's Parcel Number ["APN'] 027-017-063 and APN 027-017-077); however, this portion of the Beltran Farm property is not a part of the Paulsell Project Site and would remain in agricultural use as it is today. No runoff beyond the historic flow would leave the site, and no drainage structures are necessary to collect, control, or divert any stormwater; additionally, no storage basins are proposed.

The Beltran Farms property, within which the Original Project Site is located, is currently within the Oak Flat Water District, which has a contract with the California State Department of Water Resources to purchase water from the California Aqueduct.

Water Demand

As previously discussed, one portion of the Approved Project is currently planted with walnut and almond orchards. It is estimated that walnut and almond trees require an average of 3.5 acre-feet of water applied per acre per year (Congressional Research Service 2015).

Existing Constraints

Four existing PG&E pole line easements, two crude oil pipeline easements owned by Tidewater Oil Company and Union Oil, and four overhead transmission lines are located west of the Original Project Site, but no physical constraints occur within the Original Project Site.

Other Known Projects in the Project Area

San Luis Transmission Project. The Western Area Power Administration is proposing to construct a new 230-kilovolt ("kV") transmission project known as the San Luis Transmission Project that will run adjacent to the east side of the existing PG&E 230-kV transmission lines, which currently traverse the Original Project Site. The Western Area Power Administration issued its record of decision for the San Luis Transmission Project; however, the timing for construction is unknown.

Proxima Solar Energy Center. The Proxima Solar Energy Center (previously named "Fink Road Solar Farm") CUP No. 2010-03 (April 2012) permits the development of a Solar PV project within an approximately 940.8-acre development footprint on an approximately 1,687-acre project site. The Proxima Solar Energy Center is located approximately 1 mile north of the Original Project Site and was approved on March 29, 2021.

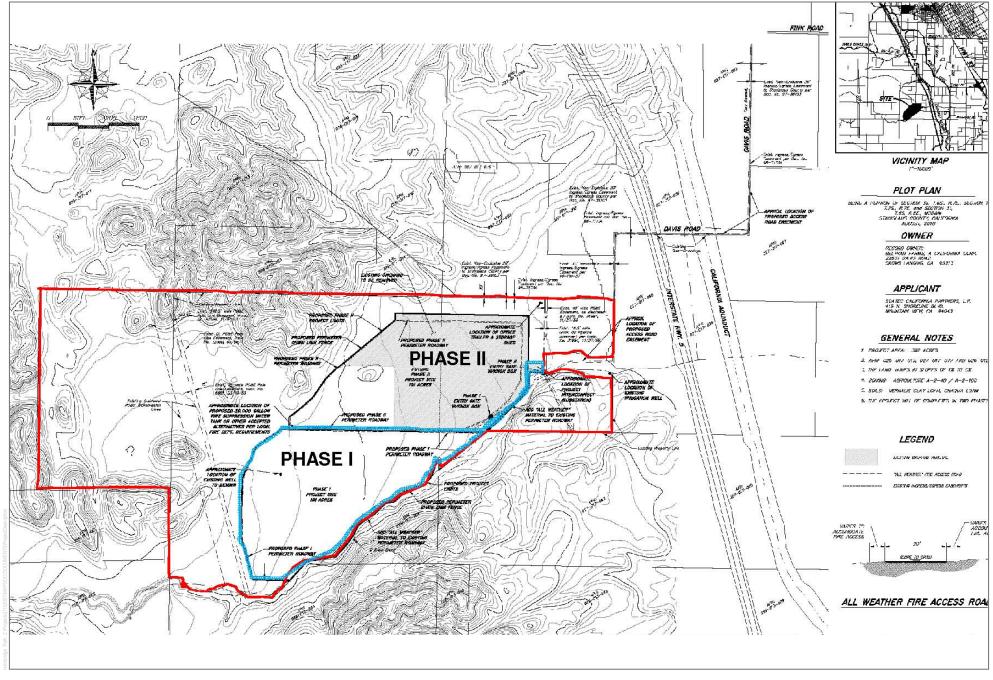


Beltran Solar Energy Center. The Beltran Solar Energy Center includes the development of approximately 758 acres on an approximately 1,720-acre project site, entirely surrounding the Scatec Westside Solar Ranch Original Project Site.

Scatec Westside Solar Ranch. The Scatec Westside Solar Ranch Phase I Project (CUP No. 2010-09) is currently in operation and consists of approximately 20 megawatts on 191 acres, located interior to the Beltran Solar Energy Center Original Project Site.

PG&E's Crow Creek Switching Station. The Crow Creek Switching Station a 60-kV switching station, which is currently in operation. The Scatec Westside Solar Ranch Phase I Project (CUP No. 2010-09) is currently interconnected to this switching station, and the proposed Paulsell Project will also be interconnected to this switching station.

Crows Landing Airport. In 2018, the Crows Landing Naval Air Station was approved to be converted to a public use airport, the Crows Landing Airport. Based on an amendment to the Airport Land Use Compatibility Plan in 2018, the Crows Landing Airport is within Review Area 2. Review Area 2 includes locations where airspace protection and/or overflight are compatibility concerns, but not noise or safety (Stanislaus County 2018). The Crows Landing Airport is located on the east side of I-5, approximately 2 miles from the Original Project Site.



SOURCE: MVE, Inc. 2011

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FIGURE 3

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Paulsell Solar Energy Center Project Characteristics

The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres. However, due to site constraints, only approximately 232 acres would be developed. This increase will be contained entirely within the area previously analyzed and approved for the Original Project Site or Approved Project and is intended to allow for developmental and operational flexibility. For example, certain areas that were approved as part of the Original Footprint are unsuitable for development due to unexpected site constraints, such as the future access roads to service Western Area Power Administration's San Luis Transmission Project, or environmental constraints and unforeseen encumbrances ("Approved Constraint Areas"), such as steep slopes. Crow Creek Solar anticipates to substitute out these Approved Constraint Areas (approximately 0.66 acres) from the Paulsell Project footprint for other lands within the Original Footprint on a 1:1 ratio. These acreages will be subject to change as the development of the Paulsell Project progresses.

The Paulsell Project is designed to generate up to 20 megawatts of electricity and will require additional support facilities consisting of a project collector substation, access roads, fencing, medium-voltage stations, a BESS, an overhead transmission line that would connect directly into the existing PG&E Crow Creek Switching Station, O&M building, SCADA system, and other ancillary facilities or equipment. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the originally approved CUP and adopted MND. Other than the access roads and fencing, these ancillary facilities were not evaluated in the 2010 MND, nor approved in the 2010 CUP; however, potential inclusion of these ancillary facilities, as well as other modifications to the proposed solar facility, will not increase the severity of existing effects to significant levels, or result in any new significant effects. The final nameplate capacity of the Paulsell Project will be established at the detailed engineering stages. A description of the Paulsell Project is included below, and shown on Figure 4, Development Area and Project Components.

3.1 Solar Energy Facility

Solar energy would be captured by an array of Solar PV panels mounted to fixed racking or to a single-axis tracking system. The total number of panels used would depend on the final selection of the actual panels to be used. The panels would be arranged in series to effectively increase output voltage to approximately 1,500 volts. These series of panels are called "strings" and provide the basic building block of power conversion in the solar array. The strings are combined in the solar field through an aboveground or belowground direct current ("DC") collection system. Then, they are collected together at the medium-voltage ("MV") stations, where the energy is converted to alternating current ("AC") and then stepped to an intermediate voltage, typically 34.5 kV. The specific Solar PV panel technology will be selected at the detailed engineering stages as the Project progresses.

The panels will be aligned in rows to be spaced based on specific design criteria and will be mounted on the racking systems. The type of anchoring system and/or foundation supports for the racking structures will be determined based on a preliminary geotechnical assessment, but it is anticipated that the racks will be supported by screw or driven piles into the ground. A fixed racking system would be stationary, with panels mounted to tilt to the south. If

used, the tracking system would rotate slowly throughout the day at a range of +/- 60 degrees facing east to west to stay perpendicular to the incoming solar rays so production can be optimized. The number of panels per tracker will depend on final configuration and, at its highest rotated edge, would have a maximum height, which will be defined by the topography of the terrain and the dimensions of the chosen panels. The minimum clearance from the lower edge of the panel to ground level is approximately 18 to 24 inches but will be subject to change pending final design.

The MV stations will house multiple components to perform the following three critical functions for the solar plant: (1) DC power is collected in a central location; (2) inverters convert the DC power into AC power; and (3) MV transformer converts low-voltage AC power created by the inverters to MV AC power. The output power from the MV stations is then fed to the AC collection system through an aboveground or belowground collection system. This AC collection system would deliver the electricity to the existing PG&E Crow Creek Switching Station, where the voltage would be stepped up to the interconnection voltage of 60 kV. The number of MV stations to be used will be determined at the detailed engineering stages.

3.2 Battery Energy Storage System

A BESS dedicated to the Paulsell Project is proposed within the Original Project Site. The BESS would be dispersed throughout the site and connected to the PV arrays via a direct current ("DC")-coupled system. Individual battery units would be co-located at each inverter and transformer unit within the individual array blocks throughout the site. The battery units would be enclosed in individual outdoor-rated containers to house the batteries, cooling system, small step-down transformer, fire protection equipment, and other ancillary equipment. The battery equipment is accessible from the outside, so the containers will remain unoccupied. The BESS would be unmanned and include 24/7 remote operational control and monitoring.

3.3 Project Collector Substation

The Project collector substation would be the termination point of the collection system of 34.5-kV AC electricity. The output of the solar field would be passed through a final interconnection step-up transformer to convert it to the grid tie voltage at 60 kV. The open-air Project substation is anticipated to be constructed adjacent to the existing PG&E Crow Creek Switching Station located at the eastern boundary of the Original Project Site. The footprint of the on-site Project collector substation would be approximately 10 acres in size. The specific size and equipment for the substation will be finalized at the detailed engineering stages as the Project progresses. It will be assumed that the local distribution utility will have nearby suitable distribution lines to provide the Project location with auxiliary power as required. If no distribution supply is available nearby, the requirements for an auxiliary generator will be determined once the layout of the solar facility is reviewed.

3.4 Transmission Line to Existing Crow Creek Switching Station

The proposed Paulsell Project would connect its Project Collector Substation directly into the existing PG&E Crow Creek Switching Station via an overhead transmission line. Energy from the Paulsell Project will have the potential to be stored in dedicated batteries prior to being stepped-up at the existing PG&E Crow Creek Switching Station.

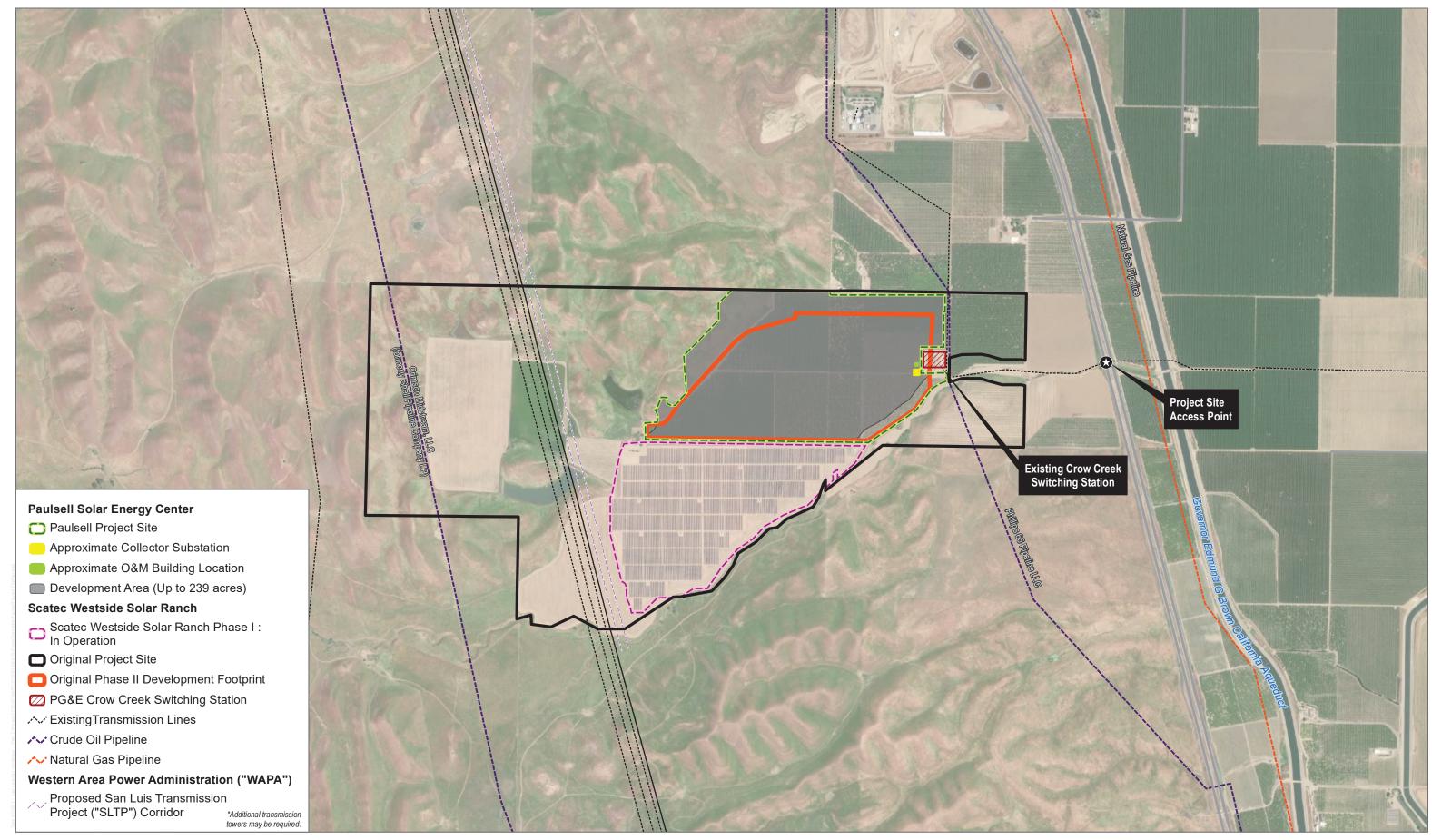
3.5 Operation and Maintenance

The O&M building for the Paulsell Project would be approximately 2,500 square feet and is expected to be located within the Original Footprint. It is anticipated that a maximum of three permanent staff employees would use the O&M building for ongoing facility monitoring, equipment storage, and repairs. The O&M building is expected to be a prefabricated commercial structure. Permanent restroom facilities with septic tanks and/or portable toilets would be used for sanitary purposes at the O&M building, and a permanent water source in the form of trucked water, well water, or bottled water would be provided for the staff. The proposed building would include the requisite number of parking spaces for staff members' vehicles and O&M equipment. It is likely that temporary office buildings (e.g., portable trailers) will be required during construction.

The Paulsell Project operations would also be monitored remotely through the SCADA, and periodic inspections and maintenance activities would occur.

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SOURCE: Esri Aerial Imagery, NEER 2019

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3.6 Perimeter Fence, Signage, and Lighting

The perimeter of the Paulsell Project would be enclosed by a 6- to 8-foot-high perimeter security fence. Access into the Paulsell Project would be provided through the existing 20-foot-wide paved Davis Road from Fink Road to its western terminus. The main purpose of the fence is to prevent unauthorized access to the site. Primary access to the Paulsell Project would be provided through an access gate along Davis Road.

In accordance with Condition of Approval 5 of the 2010 Scatec Westside Solar Ranch CUP, a sign plan for all proposed on-site signs indicating the location, height, area of the signs, and message would be approved by the planning director or his appointed designee.

A small sign would be installed at the site main entry. The sign would include language similar to the following: "Paulsell Solar Energy Center, 22601 Davis Road." In addition, required safety signs would be installed on the fence near the site entrance to identify high voltage and provide information for emergency services within the facility.

All exterior lighting would be designed to aim down and toward the site to provide adequate illumination without a glare effect. Lighting would be only in areas where it is required for safety, security, or operations and would include shielding as necessary to minimize illumination of the night sky or potential impacts to surrounding viewers.

3.7 Construction

Construction would be primarily composed of the following activities:

- Site Preparation: The site would be prepared for construction. For example, rough grading may be
 performed where required to accommodate the support structures and access roads. Retention basins, if
 required, would be created for hydrologic control. Access roads would be gravel or aggregate base
 depending on the final site geotechnical report. A temporary staging area would be constructed to hold
 materials and construction equipment.
- Fencing: A 6- to 8-foot-tall perimeter security fence would be installed. Trash would be removed from the fencing as required.
- Solar Field: The solar arrays would be installed in three steps: (1) installation of foundations, (2) construction of the racking and tracking systems, and (3) attachment of modules.
- Electrical Work: A substation pad for the step-up transformer would be poured, followed by the installation
 of the MV stations, wiring of the modules through combiner boxes, and construction of the Project
 substation and grid interconnection. The MV stations would sit on concrete foundations or driven piles,
 pending final design.

The Paulsell Project is anticipated to be built over an approximately 8-month period from the onset of site preparation activities through testing and commissioning of the facility. It is anticipated that construction crews will work 8 or 10 hours per day, with work occurring Monday through Friday. Overtime and weekend work would be used only as necessary to meet scheduled milestones or accelerate schedule and would comply with applicable California labor laws. The activities listed in Table 3 would overlap in certain phases.

Table 3. Proposed Paulsell Project Construction Duration, Equipment, and Workers by Activity

Activity	Duration	Equipment	Pieces	Workers
Perimeter fence	1.5 months	Skid loader with auger attachment	3	
installation		Pickup truck	1	
		Flatbed truck	1	
		4x4 forklift	1	
Site preparation and	2 months	Water truck (three axles)	3	
clearing/grading		Grader	2	
		Bulldozer	1	
		10-ton roller	1	
		Sheepsfoot roller	1	
		Tractor (with mower attachment)	1	
Underground work	~3 months	Excavator	2	
(trenching)		Sheepsfoot roller	1	
		Water truck (three axles)	1	
		Aussie padder (screening machine)	1	NA - 1 - 1 - 1
		4x4 forklift	1	Maximum
System installation	~4 months	4x4 forklift	8	Average = 75
		Small crane (80-ton)	1	Average 15
		All-terrain vehicle	20	
		Pile driver	4	
		Pickup truck	4	
Interconnection	~4 month	Line truck (with spool trailer)	1	
Construction		Boom truck (with bucket)	1	
		80-ton crane	1	
		LoDril (foundation drill)	1	
BESS	7 months	Small crane	1	-
		Grader	1	
		4x4 forklift	4	
Testing and	~4 months	Pickup truck	4	1
commissioning and Site		Grader	1	1
Restoration		Skid loader	1	

The Paulsell Project would be designed to minimize earthwork. Grading would occur throughout the site for the construction of access roads, BESS, O&M building, and other ancillary facilities. Grading would be accomplished with scrapers, motor graders, water trucks, bulldozers, and compaction equipment. The Solar PV modules would be off-loaded and installed using small cranes, boom trucks, forklifts, rubber-tired loaders, rubber-tired backhoes, and other small- to medium-sized construction equipment as needed. Construction equipment would be delivered to the site on "low-bed" trucks unless the equipment can be driven to the site (e.g., boom trucks). It is estimated that there would be approximately 35 pieces of construction equipment on site each month.

As discussed in Section 2.2, Project Setting, the Project Site consists of almond and walnut orchards. Prior to commencing construction activities, there will be clearing and grubbing of the trees where orchards are present to allow for PV panel installation. No removal of native trees is anticipated.

Vegetation would be removed where gravel roads would be constructed; fill would be placed from grading operations; structures would be constructed; and transmission pole and tracker foundations would be installed (if necessary). At locations where tracker foundations would be installed, minor cuts may be required where the foundations will be driven. Minor earth work would also occur to install access roads and transmission line maintenance roads. The surface of the roads would be at grade in order to allow any water to sheet flow across the site as it currently does. Throughout the remainder of the developed area on site, the vegetation root mass would generally be left in place to help maintain existing drainage patterns on a micro level and to assist in erosion control. During construction of the facility, it is expected that most of the vegetation would be cut, trimmed, or flattened as necessary but otherwise undisturbed so reestablishment is possible.

3.8 Traffic

The peak daily construction employee count would be approximately 85, during the peak phase of construction. As shown in Table 4, in addition to the 85 maximum daily workers traveling to the site, there would be up to 28 vendor truck trips per day (56 one-way trips) and 3 haul trucks (6 one-way trips) at peak construction activity (site preparation, trenching, system installation, energy storage system and interconnection system work overlap). A total of up to 300 trips per day are anticipated during peak construction activities.

Average **Gross Weight Approximate** On Site **Truck Type** (pounds) Trips/Day **Duration (months)** 4 80.000 loaded 3+ (on site) 6 8,000-gallon water truck 9 8.000 8 Pickup trucks 1 42,000 1 4 Boom truck with bucketcomponent 6 Varies - 80,000 loaded 1 8 Delivery trucks 1 30,000 1 4 Utility-line service truck

Table 4. Paulsell Project Construction - Estimated Truck Activity

Delivery of material and supplies would reach the site through on-road truck delivery through I-5, Fink Road, and Davis Road. It is estimated that a total of up to 2,760 truck trips are required to complete the Paulsell Project. It is estimated that there would be an average of 120 truck deliveries per month (approximately 6 per work day), with a peak number of truck deliveries of 260 deliveries per month (approximately 13 per work day) plus one miscellaneous delivery, equaling to a peak truck trip count of 14 per workday. These truck trips would be intentionally scheduled throughout the construction day to optimize construction efficiency as is practical by scheduling deliveries at predetermined times.

The heaviest delivery loads to the site would consist of the tracker structures, rock truck deliveries, concrete trucks, and the generator step-up transformer. Typically, the rock is delivered in bottom-dump trucks or transfer trucks with six axles, and the tracker structures would be delivered on traditional flatbed trucks with a minimum of five axles. Low-bed trucks would transport the construction equipment to the site as needed. The size of the low-bed truck (axles for weight distribution) would depend on the equipment transported.

Operation of the proposed project would include a maximum of three permanent staff employees and solar panel washing is expected to occur one to four times per year. Therefore, the Paulsell Project would generate nominal operational traffic trips.

3.9 Water Use

The water demand for the Paulsell Project is based on the anticipated disturbance footprint, because the primary water demand associated with construction is dust control. The average construction water demand for similar projects is 0.24 acre-feet per year. This is a conservative planning-level estimate that would accommodate for additional details as the Project design is finalized. Based on the water demand factor of 0.24 acre-feet per acre and the Paulsell Project footprint of 239 acres, the construction water demand is estimated to be 57.4 acre-feet over an approximately 8-month period. This number has been rounded to the nearest 10 acre-feet (60 acre-feet).

During Project operations, solar panel washing is expected to occur one to four times per year. While Crow Creek Solar only expects to wash the Solar PV panels once per year, the panels may need to be washed more frequently (up to four times per year) based on site conditions. Conditions that may necessitate increased wash requirements include unusual weather occurrences, fires, local air pollutants, and other similar conditions.

It is anticipated the water demand for an O&M facility would be equivalent to the water demand of a rural domestic home (approximately 0.5 acre-feet per year). A small ongoing water demand of 0.6 acre-feet per year for miscellaneous needs (e.g., periodic site maintenance, fire suppression) is also anticipated for the O&M water demand. The total O&M water demand is estimated at 20 acre-feet per year.

Table 5 provides the estimated water demand for construction and O&M of the Paulsell Project.

Table 5. Paulsell Project Water Demand

Phase/Activity	Estimated Water Demand	Total Estimated Water Demand (acre-feet)
	Construction	
Grading and dust control	0.24 acre-feet/acre	60
	Operation and Maintenance	
Panel washing, miscellaneous facility maintenance, and sanitary facilities (operations and maintenance building)	Panel washing to occur up to four times per year	20

Note: Construction and operational water demand rounded to the nearest acre-foot.

Construction and operational water is anticipated to be provided by the Oak Flat Water District. In addition, on-site groundwater may be used. Each of the proposed water sources is being evaluated in the water supply assessment.

An on-site diesel generator may be used to power pumps for well water use during construction and O&M. In addition, during construction, water may be pumped directly into 2,000- to 4,000-gallon tanked water trucks or stored in overhead, temporary, approximately 12,000-gallon water storage towers/tanks (up to 16 feet tall) to assist in the availability of water for trucks and expedient filling. The existing wells on site that would not be used for the Paulsell Project would be capped in place in accordance with County requirements.

As previously discussed, the Project area consists of an orchard (almond and walnut trees). It is estimated that almond/walnut trees require an average of 3.5 acre-feet of water applied per acre per year (Congressional Research Service 2015). There are currently approximately 183 acres of orchard on the Original Project Site. With development of the Project, water use associated with the orchard would cease, resulting in an estimated net savings of 651 acre-feet per year of water during 0&M.

3.10 Decommissioning

In general, the Solar PV system and BESS would be recycled at the expiration of the Paulsell Project's life. Panels typically consist of silicon, glass, and a metal frame. Tracking systems (not including the motors and control systems) typically consist of aluminum and steel. Batteries include lithium-ion, which degrades but can be recycled or repurposed. Site structures would include steel or wood and concrete. All of these materials can be recycled. Concrete from deconstruction would be recycled. Local recyclers are available. Metal and scrap equipment and parts that do not have free flowing oil may be sent for salvage.

Fuel, hydraulic fluids, and oils would be transferred directly to a tanker truck from the respective tanks and vessels. Storage tanks and vessels would be rinsed and transferred to tanker trucks. Other items that are not feasible to remove at the point of generation, such as smaller container lubricants, paints, thinners, solvents, cleaners, batteries, and sealants would be kept in a locked utility structure with integral secondary containment that meets Certified Unified Program Agencies and Resource Conservation and Recovery Act requirements for hazardous waste storage until removal for proper disposal and recycling. It is anticipated that all oils and batteries would be recycled at an appropriate facility. Site personnel involved in handling these materials would be trained to properly handle them. Containers used to store hazardous materials would be inspected regularly for any signs of failure or leakage. Additional procedures would be specified in the Hazardous Materials Business Plan submitted to the Certified Unified Program Agencies. Transportation of the removed hazardous materials would comply with regulations for transporting hazardous materials, including those set by the Department of Transportation, the U.S. Environmental Protection Agency, California Department of Toxic Substances Control, California Highway Patrol, and California State Fire Marshal.

3.11 Proposed Project and Approved Project Comparison

Table 6, below, compares Project features associated with the Paulsell Project with those approved as part of the Approved Project.

Table 6. Proposed Changes to 2010 Scatec Westside Solar Ranch CUP

Description	Paulsell Solar Energy Center (Proposed Project) – Proposed Change	Scatec Westside Solar Ranch (Approved Project) Previous Project Description
Project Name	Paulsell Solar Energy Center	Scatec Westside Solar Ranch
Project Site	Approximately 1,132-acre Original Project Site (Unchanged)	Approximately 1,132-acre Original Project Site

Table 6. Proposed Changes to 2010 Scatec Westside Solar Ranch CUP

Description	Paulsell Solar Energy Center (Proposed Project) – Proposed Change	Scatec Westside Solar Ranch (Approved Project) Previous Project Description
Development Footprint	Up to 261.25 acres is permitted per County Code Chapter 21.96.070. However, due to site constraints, approximately 232 acres would be developed, all within the Original Project Site.	Approximately 382 acres (191 acres each for Phase I and Phase II) all within Original Project Site. Phase I is operational, occupying 173 acres. 209 acres remain for the development of Phase II.
Solar Energy Facility	Fixed racking or a single-axis tracking system	Single-axis tracking system
Energy Storage	A BESS dedicated to the Paulsell Solar Energy Center.	No energy storage systems were analyzed/permitted at part of the Scatec Westside Solar Ranch.
On-site Collector Substation	On-site collector substation adjacent to the existing PG&E Crow Creek Switching Station	On-site substation (existing Crow Creek Switching Station)
Interconnection to PG&E	An overhead transmission line that will connect directly into the existing PG&E Crow Creek Switching Station, adjacent to the eastern boundary of the Paulsell Project Development Footprint.	An overhead transmission line to connect to the existing PG&E Salado-Newman transmission line, located west of the Scatec Westside Solar Ranch Development Footprint.
Perimeter Fence	Perimeter Fence: Approximately 6 to 8 feet high along entire perimeter.	Perimeter Fence: Approximately 6 feet high along entire perimeter
Construction Schedule	Approximately 8 months (Unchanged)	Approximately 8 months
Traffic	Peak Daily Construction Trips: 300	Peak Daily Construction Trips: Not specified
Water Use	Construction: 60 acre-feet 0&M: 20 acre-feet per year	Not specified
Operations and Maintenance	O&M building	O&M monitoring in on-site trailer

Notes: BESS = battery energy storage system; PG&E = Pacific Gas & Electric; O&M = operations and maintenance.

4 References

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Appendix B

Air Quality and Greenhouse Gas Technical Memorandum

MEMORANDUM

To: Patti Murphy and Dexter Liu - Crow Creek Solar, LLC

From: David Larocca – Dudek

Subject: Air Quality and Greenhouse Gas Emissions Assessment for the Paulsell Solar Energy Center

Date: April 15, 2021

Attachment: A – Air Quality and Greenhouse Gas Emissions Calculations

Dudek has prepared this preliminary air quality and greenhouse gas ("GHG") emissions assessment to assist Stanislaus County ("County") with environmental planning requirements for the proposed Paulsell Solar Energy Center ("Paulsell Project"). This assessment is in support of an Addendum to the *Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration* ("2010 MND"). The Scatec Westside Solar Ranch ("Approved Project") 2010 MND was prepared by the County Planning and Community Development Department pursuant to the California Environmental Quality Act ("CEQA"), California Public Resources Code Section 21000 et seq., circulated for public review and comment, and approved by the County Planning Commission in November 2010.

The purpose of this memorandum is to evaluate the changes to the Scatec Westside Solar Ranch - Phase II as proposed under the Paulsell Project. Accordingly, this memorandum estimates criteria air pollutant and GHG emissions from construction and operation of the Paulsell Project and evaluates potential air quality and GHG emissions impacts resulting from operation of the Paulsell Project in accordance with CEQA. This memorandum also estimates health risks from construction of the Paulsell Project on nearby sensitive receptors.

The content and organization of this memorandum are as follows: project description, general analysis and methodology, thresholds of significance and impact analyses for the air quality assessment and GHG emissions assessment, conclusions, and references cited.

1 Project Description

Crow Creek Solar, LLC ("Crow Creek Solar") proposes to amend the existing conditional use permit ("CUP") for the Scatec Westside Solar Ranch ("Approved Project"), approved by Stanislaus County ("County") in November 2010 and supported by an adopted mitigated negative declaration ("MND") through a County Staff Approval Permit. The proposed Paulsell Project is designed to generate up to 20 megawatts of electricity on approximately 232 acres and would require support facilities consisting of access roads, fencing, medium-voltage stations, a project collector substation, a battery energy storage system ("BESS"), an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, operations and maintenance ("O&M") building, supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment.

The Paulsell Project would be located on a site covered by an existing MND titled Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration ("2010 MND"). The CUP for the Approved Project (No. 2010-09) allows for the construction, operation, and

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decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre site, which was part of the original Scatec Westside Solar Ranch CUP ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project Site would be located within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND.

The Paulsell Project includes a solar energy facility similar to the Approved Project. The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres, as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed. This increase will be contained entirely within the area previously analyzed and approved for the Original Project Site in the 2010 MND. The Paulsell Project also proposes the potential development of additional support facilities, as described above. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the CUP and 2010 MND.

2 General Analysis and Methodology

The Paulsell Project is located within the San Joaquin Valley Air Basin and is within the jurisdictional boundaries of the San Joaquin Valley Air Pollution Control District ("SJVAPCD"), which has jurisdiction over Stanislaus County where the project is located. The California Emissions Estimator Model ("CalEEMod") Version 2016.3.2 was used to estimate emissions from construction of the Paulsell Project (CAPCOA 2017). CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant and GHG emissions associated with construction activities and operation of a variety of land use projects, such as residential, commercial, and industrial facilities. CalEEMod input parameters, including the land use type used to represent the Paulsell Project and its size, construction schedule, and anticipated use of construction equipment, were based on information provided by Crow Creek Solar or default model assumptions if specifics were unavailable. Construction was assumed to commence in May 2023 and last approximately 8 months. The first full year of operation was assumed to be 2024.

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 that are evaluated include volatile organic compounds (also referred to as reactive organic gases ["ROGs"]), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter with an aerodynamic diameter less than or equal to 10 microns in size (coarse particulate matter, or PM_{10}), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size (fine particulate matter, or $PM_{2.5}$). Volatile organic compounds and NO_x are important because they are precursors to ozone (O₃). Criteria air pollutant emissions associated with construction of the Paulsell Project were estimated for the following emission sources: operation of off-road construction equipment, paving, architectural coating, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The operational criteria air pollutant emissions were estimated from area sources, energy sources, and mobile sources.

GHGs are gases that absorb infrared radiation in the atmosphere. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature. Global climate change concerns are focused on whether human

activities are leading to an enhancement of the greenhouse effect. Principal GHGs include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), O₃, and water vapor. If the atmospheric concentrations of GHGs rise, the average temperature of the lower atmosphere will gradually increase. Globally, climate change has the potential to impact numerous environmental resources though uncertain impacts related to future air temperatures and precipitation patterns. Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. Climate change is already affecting California: average temperatures have increased, leading to more extreme hot days and fewer cold nights; shifts in the water cycle have been observed, with less winter precipitation falling as snow, and both snowmelt and rainwater running off earlier in the year; sea levels have risen; and wildland fires are becoming more frequent and intense due to dry seasons that start earlier and end later (CAT 2010).

The effect each GHG has on climate change is measured as a combination of the mass of its emissions and the potential of a gas or aerosol to trap heat in the atmosphere, known as its global warming potential ("GWP"), which varies among GHGs. Total GHG emissions are expressed as a function of how much warming would be caused by the same mass of CO_2 . Thus, GHG emissions are typically measured in terms of pounds or tons of CO_2 equivalent (CO_2 e). The CO_2 e for a gas is derived by multiplying the mass of the gas by the associated GWP, such that metric tons ("MT") of CO_2 e = (MT of a GHG) × (GWP of the GHG). CalEEMod assumes that the GWP for CO_2 , which means that emissions of 1 MT of CO_2 0 is 298, based on the Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007).

GHG emissions associated with construction of the Paulsell Project were estimated for the following emission sources: operation of off-road construction equipment, on-road hauling and vendor trucks, and worker vehicles. GHG emission sources associated with operation of the Paulsell Project include area, energy, mobile, solid waste, water, and wastewater categories. The detailed construction and operational assumptions are included in Attachment A.

3 Air Quality Assessment

3.1 Thresholds of Significance

The State of California has developed guidelines to address the significance of air quality impacts based on Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.). In addition, Appendix G of the CEQA Guidelines indicates that where available, the significance criteria established by the applicable air district may be relied on to determine whether a project would have a significant impact on air quality. This analysis focuses on addressing the potential for the Paulsell Project to violate any air quality standard or contribute substantially to an existing or projected air quality violation, which is determined by comparing estimated Project-generated construction and operational emissions to numeric thresholds established by SJVAPCD.

The SJVAPCD "Guidance for Assessing and Mitigating Air Quality Impacts" has established emissions-based thresholds of significance for criteria pollutants (SJVAPCD 2015), which are listed in Table 1. As shown in Table 1, 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 1
San Joaquin Valley Air Pollution Control District California Environmental Quality Act Significance
Thresholds for Criteria Pollutants

		Operational Emissions (tons per year)		
Pollutant	Construction 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	
PM ₁₀	15	15	15	
PM _{2.5}	15	15	15	

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns in size; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size.

Source: SJVAPCD 2015.

In addition to the annual emissions mass thresholds described in Table 1, the SJVAPCD has also established screening criteria to determine whether a project would result in a CO hotspot at affected roadway intersections (SJVAPCD 2015). If neither of the following criteria are met at any of the intersections affected by the Paulsell Project, no potential to create a violation of the CO standard would occur:

- A traffic study for the Paulsell 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 LOS F.
- A traffic study indicates that the Paulsell Project will substantially worsen an already existing LOS F on one
 or more streets or at more or more intersections in the Project vicinity.

The SJVAPCD has also established screening criteria to determine whether a project needs to prepare an ambient air quality analysis. If a project exceeds 100 pounds per day on site for any mitigated criteria air pollutant, an ambient air quality assessment must be performed for all criteria air pollutants (SJVAPCD 2015).

Toxic Air Contaminants

The SJVAPCD has established thresholds of significance for combined toxic air contaminant ("TAC") emissions from the operations of both permitted and non-permitted sources (SJVAPCD 2015). 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.

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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 Index² for acute and chronic noncarcinogenic TACs equals or exceeds 1 for the maximally exposed individual.

Odors

As described in the "Guidance for Assessing and Mitigating Air Quality Impacts," due to the subjective nature of odor impacts, there are no quantitative thresholds to determine if potential odors would have a significant impact (SJVAPCD 2015). 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 located 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 identified in Table 2.

Table 2 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 2015.

If a 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 located 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

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 a project to a published reference exposure level that could cause adverse health effects as established by the Office of Environmental Health Hazard Assessment. 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, or
- Three unconfirmed complaints³ per year averaged over a 3-year period.

3.2 Impact Analysis

3.2.1 Would the Paulsell 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 that do not increase dwelling unit density, do not increase vehicle trips, and do not increase vehicle miles traveled ("VMT") are also deemed to comply with the applicable air quality plan (SJVAPCD 2015).

As discussed in the Land Use and Planning section of the 2010 MND, the solar project, a facility for public utilities, is an allowed use with an approved Tier Three Use Permit. Similar to the Approved Project, the Paulsell Project would not conflict with existing land uses or result in population growth. In addition, the Paulsell Project would not result in a long-term increase in the number of trips or increase the overall VMT in the area. Haul truck, vendor truck, and worker vehicle trips would be generated during the proposed construction activities but would cease after completion of construction. The Paulsell Project would comply with applicable SJVAPCD rules and regulations, such as Regulation VIII (Fugitive PM10 Prohibitions), Rule 4102 (Nuisance), Rule 4601 (Architectural Coatings), Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations), Rule 8021, and IX (Mobile and Indirect Sources). The Paulsell Project would also include all relevant mitigation requirements that are established in the SJVAPCD Air Quality Attainment Plan. Therefore, the Paulshell Project would not conflict with or obstruct the SJVAPCD's Air Quality Attainment Plan (SJVAPCD 2017). In addition, the Paulsell Project will implement previously approved Mitigation Measure 37 which specifies that Project-related vehicles shall observe a 20-mph speed limit in all Project areas and to the extent possible, minimize night-time construction, and prohibit off-road traffic outside the designated Project areas. The impact would remain less than significant.

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

3.2.2 Would the Paulsell Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

Similar to the Approved Project, the Paulsell Project would result in temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment and soil disturbance) and off-site sources (i.e., on-road haul trucks, delivery trucks, and worker vehicle trips).

Construction Emissions

CalEEMod Version 2016.3.2 was used to estimate emissions for construction of the Paulsell Project to confirm emissions at the Paulsell Project Site have not changed substantially compared with those present and analyzed in the 2010 MND. For the purpose of conservatively estimating air pollutant emissions, it is assumed that construction of the Paulsell Project would start in May 2023 and would last approximately 8 months. The construction phasing schedule and duration, vehicle trip assumptions, and construction equipment mix used for estimating construction emissions are shown in Attachment A. Several of the construction phases identified will run concurrently. For purposes of emissions modeling, it was generally assumed that heavy construction equipment would be operating at the site for 5 days per week (22 days per month) during construction.

Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of ROG, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. PM₁₀, and PM_{2.5} emissions would also be generated by entrained dust, which results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The Paulsell Project would be required to comply with SJVAPCD's Regulation VIII (Fugitive PM₁₀ Prohibitions) to control dust emissions during any dust-generating activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active grading areas up to three times per day, with additional watering depending on weather conditions. Water consumption during construction is estimated to be up to approximately 60 acre-feet for dust suppression and earthwork.

Estimated maximum annual construction criteria air pollutant emissions from all on-site and off-site emission sources is provided in Table 3.

Table 3
Estimated Maximum Annual Construction Emissions

	ROG	NO _x	CO	SO _x	PM ₁₀ ^a	PM _{2.5} a
Year				Tons		
Maximum Rolling 12-Months	0.42	4.22	4.24	0.02	14.81	1.69
SJVAPCD Threshold	10	10	100	27	15	15
Threshold exceeded?	No	No	No	No	No	No

Notes: CO = carbon monoxide; NO_x = oxides of nitrogen; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; SO_x = sulfur oxides; ROG = reactive organic gases See Attachment A for detailed results.

As shown in Table 3, annual construction emissions would not exceed the SJVAPCD significance thresholds for ROG, NO_x , CO, SO_x , PM_{10} , or $PM_{2.5}$ during Project construction, and impacts would remain less than significant.

^a These estimates reflect control of fugitive dust required by SJVAPCD Regulation VIII.

Operational Emissions

Operation of the Paulsell Project would generate ROG, NO_x, CO, SO_x, PM₁₀, or PM_{2.5} emissions from mobile sources, including vehicle trips from maintenance vehicles. Pollutant emissions associated with long-term operations were quantified using CalEEMod. Operational mobile source emissions were estimated based on Paulsell Project-specific trip rates.

Table 4 presents the maximum daily mobile source emissions associated with operation year 2023. The values shown are the maximum daily emissions results from the operation of the Paulsell Project. Details of the emission calculations are provided in Attachment A.

Table 4
Estimated Maximum Annual Operational Criteria Air Pollutant Emissions

	ROG	NO _x	СО	SO _x	PM10	PM _{2.5}	
Emissions Source	Tons per Year						
Area	0.05	0.00	<0.01	0.00	0.00	0.00	
Energy	<0.01	0.01	0.01	<0.01	<0.01	<0.01	
Mobile	0.04	0.32	0.44	<0.01	0.16	0.04	
Waste	0.00	0.00	0.00	0.00	0.00	0.00	
Water	0.00	0.00	0.00	0.00	0.00	0.00	
Total Annual Emissions	0.09	0.33	0.45	<0.01	0.16	0.05	
SJVAPCD Threshold	10	10	100	27	15	15	
Threshold Exceeded?	No	No	No	No	No	No	

Notes: PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; SO_x = sulfur oxides; ROG = reactive organic gases See Attachment A for complete results.

As shown in Table 4, the combined daily area, energy, mobile, off-road, and stationary source emissions would not exceed the SJVAPCD operational thresholds for ROG, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. Impacts associated with operational criteria air pollutant emissions would remain less than significant.

For purposes of this air quality analysis and consistent with SJVAPCD guidance documents, actions that exceed criteria pollutant National Ambient Air Quality Standards ("NAAQS") (i.e., primary standards designed to safeguard the health of people considered to be sensitive receptors while outdoors and secondary standards designed to safeguard human welfare) or the U.S. Environmental Protection Agency's Prevention of Significant Deterioration Significant Impact Levels would result in significant impacts. Additionally, actions that violate California Ambient Air Quality Standards ("CAAQS") developed by the California Air Resources Board ("CARB") are considered significant.

Determination of whether Paulsell Project emissions would violate any ambient air quality standard is largely a function of air quality dispersion modeling. The SJVAPCD recommends that an ambient air quality analysis be performed when 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. If the impacts resulting from a project's emissions would not exceed the CAAQS and NAAQS at the project's property boundaries, the project would not

violate any air quality standard or contribute substantially to an existing or projected air quality violation (SJVAPCD 2015). The Paulsell Project did not exceed 100 pounds per day on site during construction or operation; therefore, the Paulsell Project would not result in an exceedance of the CAAQS or NAAQS.

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the 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 relevant in the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality. As described above, the Project would have a less-than-significant impact for construction and operations.

The San Joaquin Valley Air Basin ("SJVAB") is a nonattainment area for O₃, PM₁₀, and PM_{2.5} under the NAAQS and/or CAAQS. The poor air quality in the SJVAB is the result of cumulative emissions from motor vehicles, off-road equipment, commercial and industrial facilities, and other emission sources. Projects that emit these pollutants or their precursors (i.e., ROG and NO_x for O₃) potentially contribute to poor air quality. Annual construction emissions associated with the Paulsell Project would not exceed the SJVAPCD significance thresholds for criteria pollutants. Accordingly, the Paulsell Project would result in a less-than-significant increase in emissions of nonattainment pollutants. The Paulsell Project would not generate a long-term increase in operational emissions, as shown in Table 4, Estimated Maximum Annual Operational Criteria Air Pollutant Emissions. Furthermore, the Paulsell Project would not conflict with the SJVAPCD Ozone Attainment Plans, or the PM₁₀ or PM_{2.5} Attainment Plan, which address the cumulative emissions in the SJVAB and account for emissions associated with construction activity in the SJVAB.

As shown above, the Paulsell Project would not exceed any CAAQS or NAAQS during the construction of the Project. Operation of the Paulsell Project would include very minimal emission generating activity. Based on these considerations, the Paulsell Project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants. Impacts would remain less than significant.

3.2.3 Would the Paulsell Project expose sensitive receptors to substantial pollutant concentrations?

Similar to the Approved Project, the Paulsell Project is located approximately 1.5 miles from the nearest sensitive receptor.

Valley Fever Exposure

The Pausell Project would comply with SJVAPCD Rule 8021, which requires applicants to develop, prepare, submit, obtain approval of, and implement a Dust Control Plan. The Dust Control Plan would reduce fugitive dust impacts to less than significant for all construction and decommissioning phases of the Paulsell Project and also control the release of the Coccidioides immitis fungus from construction activities.

In addition, the Paulsell Project shall meet the requirements of Labor Code Section 6709 as follows:

(a) The Legislature finds and declares that Valley Fever is caused by a microscopic fungus known as *Coccidioides immitis*, which lives in the top 2 to 12 inches of soil in many parts of the state. When soil is disturbed by activities such as digging, grading, driving, or is disturbed by environmental conditions such as or high winds, fungal spores can become airborne and can potentially be inhaled.

- (b) This section applies to a construction employer with employees working at worksites in counties where Valley Fever is highly endemic, including, but not limited to, the Counties of Fresno, Kern, Kings, Madera, Merced, Monterey, San Joaquin, San Luis Obispo, Santa Barbara, Tulare, and Ventura, where work activities disturb the soil, including, but not limited to, digging, grading, or other earth moving operations, or vehicle operation on dirt roads, or high winds. Highly endemic means that the annual incidence rate of Valley Fever is greater than 20 cases per 100,000 persons per year.
- (c) An employer subject to this section pursuant to subdivision (b) shall provide effective awareness training on Valley Fever to all employees by May 1, 2020, and annually by that date thereafter, and before an employee begins work that is reasonably anticipated to cause exposure to substantial dust disturbance. Substantial dust disturbance means visible airborne dust for a total duration of one hour or more on any day. The training may be included in the employer's injury and illness prevention program training or as a standalone training program. The training shall include all of the following topics:
 - (1) What Valley Fever is and how it is contracted.
 - (2) High risk areas and types of work and environmental conditions during which the risk of contracting Valley Fever is highest.
 - (3) Personal risk factors that may create a higher risk for some individuals, including pregnancy, diabetes, having a compromised immune system due to causes including, but not limited to, human immunodeficiency virus (HIV) or acquired immunodeficiency syndrome (AIDS), having received an organ transplant, or taking immunosuppressant drugs such as corticosteroids or tumor necrosis factor inhibitors.
 - (4) Personal and environmental exposure prevention methods that may include, but are not limited to, water-based dust suppression, good hygiene when skin and clothing is soiled by dust, limiting contamination of drinks and food, working upwind from dusty areas when feasible, wet cleaning dusty equipment when feasible, and wearing a respirator when exposure to dust cannot be avoided.
 - (5) The importance of early detection, diagnosis, and treatment to help prevent the disease from progressing. Early diagnosis and treatment are important because the effectiveness of medication is greatest in early stages of the disease.
 - (6) Recognizing common signs and symptoms of Valley Fever, which include fatigue, cough, fever, shortness of breath, headache, muscle aches or joint pain, rash on upper body or legs, and symptoms similar to influenza that linger longer than usual.
 - (7) The importance of reporting symptoms to the employer and seeking medical attention from a physician and surgeon for appropriate diagnosis and treatment.
 - (8) Common treatment and prognosis for Valley Fever.

- (d) Training materials may include existing material on Valley Fever developed by a federal, state, or local agency, including, but not limited to, the federal Centers for Disease Control and Prevention, the State Department of Public Health, or a local health department.
- (e) In the event that a county which has not been previously identified as being highly endemic is determined to be highly endemic per the annual report published by the State Department of Public Health, this section shall not apply in the initial year of that county's listing in the report. However, this section shall begin to apply to employers in that county in the year subsequent to the department's publication that initially identified the county as being highly endemic.
- (f) This section shall apply to an employer whenever employment exists in connection with the construction, alteration, painting, repairing, construction maintenance, renovation, removal, or wrecking of any fixed structure or its parts.

Toxic Air Contaminants

TACs are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. The nearest sensitive receptor to the Paulsell Project is a residence located approximately 1.5 miles southeast.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SJVAPCD recommends an incremental cancer risk threshold of 20 in 1 million. "Incremental cancer risk" is the net increased likelihood that a person continuously exposed to concentrations of TACs resulting from a project over a 9-, 30-, and 70-year exposure period will contract cancer based on the use of standard Office of Environmental Health Hazard Assessment risk-assessment methodology (OEHHA 2015). In addition, some TACs have noncarcinogenic effects. The South Coast Air Quality Management District ("SCAQMD") recommends a Hazard Index of 1 or more for acute (short-term) and chronic (long-term) noncarcinogenic effects.⁴ TACs that would potentially be emitted during construction activities associated with the Paulsell Project would be diesel particulate matter ("DPM").

DPM emissions would be emitted from heavy equipment operations and heavy-duty trucks. Heavy-duty construction equipment is subject to a CARB Airborne Toxics Control Measure for in-use diesel construction equipment to reduce diesel particulate emissions. PM₁₀, and PM_{2.5} (representative of DPM) exposure would be minimal. According to the Office of Environmental Health Hazard Assessment, health risk assessments (which determine the exposure of sensitive receptors to toxic emissions) should be based on a 30-year exposure period for the maximally exposed individual resident; however, such assessments should also be limited to the period/duration of activities associated with the Paulsell Project. The duration of the proposed construction activities would constitute a small percentage of the total 30-year exposure period. The construction period for the Paulsell Project would be approximately 8 months, after which construction-related TAC emissions would cease. Additionally, CARB has established that DPM concretions are substantially reduce at approximately 1,000 feet from their source (CARB 2005). The nearest sensitive receptor is greater than 1.5 miles to the southeast of the Paulsell Project Site and construction activity would be dispersed across the site. Furthermore, based on local meteorological data from the

Non-cancer adverse health risks are measured against a hazard index, which is defined as the ratio of the predicted incremental exposure concentrations of the various noncarcinogens from the project to published reference exposure levels that can cause adverse health effects.

two closest stations, the prevailing wind direction in the area are northwest and west, which are opposite of the nearest sensitive receptor located to the southeast of the Paulsell Project Site. Finally, the majority of PM₁₀ emissions shown in Table 3 are fugitive dust emissions from vehicle travel on unpaved roads and not DPM emissions from combustion of diesel fuel. Therefore, due to this relatively short period of exposure, minimal diesel particulate emissions on site, prevailing wind direction and distance from sensitive receptors, TACs generated during construction are not expected to result in concentrations causing significant health risks.

Following completion of on-site construction activities, the Paulsell Project would not involve routine operational activities that would generate TAC emissions. Operation of the Paulsell Project would not result in any non-permitted direct emissions. For the reasons previously described, the Paulsell Project would not result in substantial TAC exposure to sensitive receptors, and no new impact would occur.

Health Impacts of Carbon Monoxide

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, Paulsell Project-related construction travel would add to regional trip generation and increase the VMT within the local airshed and the SJVAB. Locally, construction and decommissioning traffic would be added to the roadway system in the vicinity of the Original 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-Paulsell 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 2015 SJVAPCD GAMAQI states that a quantitative CO hotspots analysis be performed if either of the following two conditions exist: a traffic study for the project indicates that the 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 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.

The Paulsell Project Traffic Impact Study (TIA) (Dudek 2020) included analysis of intersection volumes and LOS for construction activities the following five intersections for existing and plus project conditions.

- 1. Davis Road/Fink Road
- 2. Ward Avenue/Fink Road
- 3. Interstate 5 ("I-5") Northbound Ramps/Fink Road
- 4. I-5 Southbound Ramps/Fink Road
- 5. Landfill Access Road/Fink Road

Paulsell Project operations will generate lower trips than that generated during construction and therefore, will result in a lower impact on intersection volumes and LOS during operation.

As determined by the TIA, the addition of Paulsell Project construction or operational traffic to study area intersections would not result in deficient intersection LOS operations, all 5 intersections would result in a LOS of

A or B during construction and once operational. Accordingly, the Paulsell Project would not generate traffic that would contribute to potential adverse traffic impacts that may result in the formation of CO hotspots.

Therefore, it is concluded that the construction-related traffic under the Paulsell Project is not anticipated to create a CO hotspot as emissions would be dispersed rapidly and would not be concentrated and LOS at study area intersection would not be significantly impacted. During operation, the Paulsell Project is expected to generate very few vehicle trips for maintenance personnel, and therefore no CO hotspots would be created.

As such, impacts to sensitive receptors with regard to potential CO hotspots resulting from the Paulsell Project's contribution to cumulative traffic-related air quality impacts would be less than significant.

Health Impacts of Other Criteria Air Pollutants

Construction of the Paulsell Project would not exceed the SJVAPCD threshold for ROGs. Specific ROGs may be TACs; however, ROGs are not expected to present risk of health impacts even if the specific ROGs associated with Project construction and decommissioning aren't entirely known. Some ROGs would be associated with motor vehicles and construction equipment, while others are associated with architectural coatings, the emissions of which would not result in the exceedances of the SJVAPCD's threshold as shown in Table 3, San Joaquin Valley Air Pollution Control District California Environmental Quality Act Significance Thresholds for Criteria Pollutants. Generally, the ROGs in architectural coatings are of relatively low toxicity. Additionally, SJVAPCD Rule 4601 restricts the ROG content of coatings for both construction and operational applications.

Operation of the Paulsell Project would not result in emissions that exceed the SJVAPCD's emission thresholds for any criteria air pollutants, including ROGs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}. Some ROGs would be associated with motor vehicles and construction equipment, while others are associated with architectural coatings, the emissions of which would not result in the exceedances of the SJVAPCD's thresholds as shown in Table 4. Generally, the ROGs in architectural coatings are of relatively low toxicity.

In addition, 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 SJVAB is designated by the U.S. Environmental Protection Agency as a nonattainment area for the 1-hour O_3 NAAQS standard and 1997 8-hour NAAQS standard). 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 ambient air quality standards 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. Nonetheless, the ROG and NO_x emissions associated with Paulsell Project construction could minimally contribute to regional O_3 concentrations and the associated health impacts. O_3 health impacts are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. The Paulsell Project would not exceed the SJVAPCD threshold for O_3 precursor NO_x during construction; thus, there would be a less-than-significant impact during construction. Additionally, construction would be short term in duration, lasting only 8 months, and the long-term operational emissions would not exceed any significance thresholds for O_3 precursors.

Construction and operation of the Paulsell Project would not exceed thresholds for PM_{10} or $PM_{2.5}$ and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter. The Paulsell 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. Because the Paulsell Project would not exceed thresholds for PM_{10} or $PM_{2.5}$ during construction, and operation, health impacts would be less than significant.

Regarding NO_2 , according to the construction emissions analysis, construction of the Paulsell Project would not contribute to exceedances of the NAAQS and CAAQS for NO_2 during construction. Emissions from construction of the Paulsell Project would not exceed the SJVAPCD significance thresholds for NO_x , would be short term in duration, and the long-term operational emissions would not exceed any significance thresholds. NO_2 and NO_x health impacts are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. Therefore, the construction-, decommissioning-, and operation-related health impacts for NO_2 would be considered less than significant.

3.2.4 Would the Paulsell Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the Paulsell Project. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. Such odors are temporary and generally occur at low levels that would not result in nuisance. In regards to long-term operations, the Paulsell Project would not change routine inspection and maintenance activities for the existing transmission lines, and operational activities would not result in any sources of substantial odors. Therefore, no new impact associated with odors would occur.

4 Greenhouse Gas Emissions Assessment

4.1 Thresholds of Significance

The State of California has developed guidelines to address the significance of GHG emissions impacts based on CEQA Guidelines Appendix G. This analysis focuses on addressing the potential for the Paulsell Project to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.

In August 2008, the SJVAPCD adopted a Climate Change Action Plan, which directed the Air Pollution Control Officer to develop guidance documents to assist land—use and other permitting agencies in addressing GHG emissions as part of the CEQA process. The SJVAPCD has adopted the guidance in Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects Under CEQA and the policy, Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency. The guidance and policy rely on the use of performance-based standards, also known as Best Performance Standards, to assess significance of project-specific GHG emissions on global climate change during the environmental review process. However, SJVAPCD's adopted Best Performance Standards are specifically directed at reducing GHG emissions from stationary sources; therefore, the adopted Best Performance Standards would not generally be applicable to the Paulsell Project because it would not be considered a stationary source of emissions. 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. SJVAPCD supports the use of the interim thresholds as established by the California Air Pollution Control Officers Association

("CAPCOA") when adopted thresholds are not applicable. As such, for the purposes of establishing a quantitative threshold for GHG emissions, the interim threshold for operational emissions of industrial projects established by CAPCOA is used herein. This threshold is consistent with California's climate-stabilization target (identified in Assembly Bill 32). As a conservative estimate, GHG emissions include construction emissions annualized over the 30-year life of the Paulsell Project, as well as operational emissions.

CAPCOA recommended an interim 900 MT CO₂e screening level as a theoretical approach to identify projects that require further analysis and potential mitigation (CAPCOA 2008). The 900 MT CO₂e per year screening threshold was developed by CAPCOA based on data collection on various development applications submitted among four diverse cities: Los Angeles, Pleasanton, Dublin, and Livermore. Following the review of numerous pending applications within these four cities, an analysis was conducted to determine the threshold that would capture 90% or more of applications that would be required to conduct a full GHG analysis and implement GHG emission reduction measures as part of final design. Following CAPCOA's analysis of development applications in various cities, it was determined that the threshold of 900 MT CO₂e per year would achieve the objective of 90% capture and ensure that new development projects would keep the State of California on track to meet the goals of Assembly Bill 32. The 900 MT CO₂e threshold is applied to evaluate whether the Paulsell Project would generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.

4.2 Impact Analysis

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

Construction Emissions

Construction of the Paulsell Project would result in GHG emissions, which are primarily associated with use of offroad construction equipment, on-road vendor trucks, and worker vehicles. The SJVAPCD recommends that construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies. Thus, the total construction GHG emissions were calculated, amortized over 30 years, and added to the total operational emissions for comparison with the GHG significance threshold of 900 MT CO₂e per year. The determination of significance, therefore, is addressed in the operational emissions discussion following the estimated construction emissions.

Modeling assumptions including construction schedules, construction phasing, equipment fleet, truck trips, and worker vehicle trips assumed for the purposes of emissions estimation is provided in Attachment A. Table 5 presents construction GHG emissions for the Paulsell Project from on-site and off-site emissions sources.

Table 5
Estimated Annual Construction Greenhouse Gas Emissions

	CO ₂	CH₄	N ₂ O	CO₂e
Year		Metric Tons pe	er Year	
2023	1,376.27	0.19	0.00	1,381.03
Total	1,376.27	0.19	0.00	1,381.03
	Amortized En	nissions over 30	Years	46.03

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent. See Attachment A for complete results.

As shown in Table 5, the estimated total GHG emissions during construction would be approximately 1,381 MT CO₂e in 2023. Estimated construction emissions amortized over 30 years would be approximately 46 MT CO₂e per year. As with construction air quality pollutant emissions, GHG emissions generated during construction of the Paulsell 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. Because there is no separate GHG threshold for construction, the evaluation of significance is discussed in the operational emissions analysis in the following text.

Operational Emissions

Operation of the Paulsell Project would generate GHG emissions through motor vehicle trips; energy use (natural gas or electricity consumed by the Paulsell Project, as required when not powered by on-site energy generation); solid waste disposal; and generation of electricity associated with water supply, treatment, and distribution and wastewater treatment.

Long-term (i.e., operational) regional emissions of GHGs were quantified using the CalEEMod. Mobile-source emissions were modeled based on the increase in daily vehicle trips and the VMT that would result from maintenance activities.

Energy Sources

The estimate of operational energy emissions was based on electricity consumption for the on-site operations and maintenance ("O&M") building, battery energy storage system, site control center, and other ancillary facilities. The O&M building, battery energy storage system, and site control center total square foot area was set to result in a total annual energy consumption of 127 megawatt-hours per year. CalEEMod energy intensity factors (CO₂, CH₄, and N₂O mass emissions per kilowatt-hour) for Pacific Gas and Electric ("PG&E") are based on the latest year provided in the model. The CO₂ Intensity Factor is provided per PG&E 2019 Sustainability Report (PG&E 2019). The estimated energy usage and GHG emission factors for PG&E were used to calculate GHG emissions from this source.

Mobile Sources

It is anticipated that three permanent staff employees would use the O&M building for ongoing facility operation. In addition, the Paulsell Project would have mobile source emissions generated from maintenance vehicle trips. Estimated activity data from Crow Creek Solar and the CalEEMod were used to calculate emissions from this source category.

Solid Waste

The Paulsell Project would generate minimal solid waste, and therefore, result in minimal 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. Solid waste would be generated through maintenance activities and the O_2e building.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the Paulsell Project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the Paulsell Project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater

treatment. Crow Creek Solar provided water consumption estimates for outdoor water use—20 acre-feet per year for operation—and associated electricity consumption from water use and wastewater generation and emissions were estimated using CalEEMod.

Area Sources - Gas-Insulated Switchgear

During O&M, one of the main sources of GHG emissions would be the potential for fugitive emissions from equipment containing sulfur hexafluoride (SF₆) gas installed at the proposed on-site substations. SF₆ has a GWP of 23,900 using CO_2 at a reference value of 1 (UNFCCC 2020). It is estimated that the Paulsell Project will have a total of 28 pounds of SF₆ gas. The Paulsell Project's circuit breakers would have a maximum annual leak rate of 0.5%, based on manufacturer's specifications.

The estimated operational year 2024 GHG emissions from area sources, energy usage, motor vehicles, solid waste generation, water usage and wastewater generation are shown in Table 6.

Table 6
Estimated Annual Operational Greenhouse Gas Emissions

	CO ₂	CH₄	N ₂ O	CO ₂ e			
Emission Source	Metric Tons per Year						
Energy	25.19	<0.01	<0.01	25.42			
Area	0.00	0.00	0.00	1.52a			
Mobile	208.07	0.01	0.00	208.29			
Waste	0.19	0.01	0.00	0.47			
Water	2.29	0.01	<0.01	2.56			
Total	235.74	0.03	<0.01	238.26			
-		Amortized Construction	n Emissions over 30 Years	46.03			
		Operation + Am	ortized Construction Total	284.29			

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent. See Attachment A for complete results. ^a Emissions from SF₆ are considered an area source.

As shown in Table 6, estimated annual GHG emissions would be approximately 238 MT CO₂e per year as a result of operational activities. Estimated annual operational emissions in 2024 and amortized construction emissions would be approximately 284 MT CO₂e per year. As shown, the total annual emissions would not exceed the GHG significance threshold of 900 MT CO₂e per year, and the Paulsell Project's GHG emissions would be less than significant. No new impact would occur.

4.2.2 Would the Paulsell Project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

As described in the 2010 MND, the Approved Project was shown to have a less-than-significant impact. The 2010 MND provides that at full buildout, the Approved Project will produce 50 megawatts direct current of solar powered electricity per day. The Approved Project will generate significant clean energy thereby reducing energy demands from older polluting power plants or newer gas-fired GHG emitting plants. The 2010 MND further states that by

adding to the supply of clean energy, the Approved Project more than offsets the minimal air pollution impacts caused by implementation of the Approved Project.

Similar to the Approved Project, the Paulsell Project would produce renewable energy for use within the state. Compared to the Approved Project, the Paulsell Project would increase acreage of the solar farm by 25% to approximately 239 acres. The Paulsell Project would assist the state in complying with the Renewables Portfolio Standard as described in CARB's 2017 Scoping Plan (CARB 2017).

Since the adoption of the 2010 MND, the Stanislaus Council of Governments ("StanCOG") adopted the 2018 Regional Transportation Plan/Sustainable Communities Strategy ("RTP/SCS"). The 2018 RTP/SCS sets the foundation for transportation investment and land use priorities for years 2018 through 2042. The RTP/SCS is an applicable plan adopted for the purpose of reducing GHGs from the land use and transportation sectors in the County and was adopted after completion of a program environmental impact report. 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 StanCOG RTP/SCS. Therefore, the Paulsell Project could have a potential conflict with the StanCOG RTP/SCS if it were to be found inconsistent based on a qualitative assessment of the Paulsell Project's consistency with StanCOG's SCS policies.

Senate Bill 375 requires StanCOG to demonstrate in its SCS that it will reduce car and light truck GHG emissions 5% per capita by 2020 and 10% by 2035. The StanCOG SCS has projected to exceed the goal by committing to a 7.10% reduction by 2020 and 11.10% reduction by 2035 (StanCOG 2018). The GHG emission goals in the StanCOG RTP/SCS are based on demographic data trends and projections that include household, employment, and total population statistics. The StanCOG RTP/SCS projects that the annual VMT in the County will be between 2,318,267 (business as usual) and 2,295,111 in 2035 (preferred scenario) (StanCOG 2018). For the Paulsell Project, the majority of traffic trips (for workers and trucks) would occur during construction, which would last approximately 8 months. These trips would generate VMT, but once construction is completed, construction-related traffic would cease, and VMT would return to pre-construction conditions. Therefore, VMT generated from construction traffic would be temporary and short term.

Upon completion of construction, operational traffic from the Paulsell Project would be minimal. Operational traffic would be primarily associated with three permanent staff and as-needed maintenance activities and panel washing. Based on the Governor's Office of Planning and Research Technical Advisory on Evaluating Transportation Impacts in CEQA, December 2018, Screening Threshold for Small Projects, projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less-than-significant transportation impact (OPR 2008). As mentioned previously, the operation of the Paulsell Project will have nominal traffic generation. Therefore, utilizing the guidance provided by the Governor's Office of Planning and Research, the operation of the Paulsell Project would not generate a significant amount of trips and therefore would not cause substantial amount of VMT.

Therefore, the additional VMT generated by the Paulsell Project would be well within the annual growth projection for the StanCOG 2018 RTP/SCS. The Paulsell Project would be consistent with the StanCOG 2018 RTP/SCS and would not conflict with an applicable plan. Thus, the Paulsell Project would have a less-than-significant impact, similar to the Approved Project. No new impact would occur.

5 Conclusions

Emissions generated during construction and operation of the Paulsell Project would not exceed SJVAPCD's significance thresholds. Therefore, impacts would be less than significant.

Estimated total GHG emissions generated during operation, including amortized construction emissions, would be below the SJVAPCD's bright-line threshold of 900 MT CO₂e per year. The Paulsell Project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs as there are currently no mandatory GHG regulations or finalized agency guidelines that would apply to implementation of this Project. Accordingly, potential GHG impacts would be less than significant.

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Attachment A

Air Quality and Greenhouse Gas Emissions Calculations

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.55	1000sqft	239.00	13,550.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2024
Utility Company	Pacific Gas & Electric	Company			
CO2 Intensity (lb/MWhr)	210	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intensity Factor per PG&E 2018 Sustainabiliy Report http://www.pgecorp.com/corp_responsibility/reports/2019/assets/PGE_CRSR_2019.pdf

Land Use - Crow Creek Phase II 239 acre project site.

Construction Phase - Client provided information

Off-road Equipment - Client provided information

Trips and VMT - Client provided information

On-road Fugitive Dust - Based on project site.

Grading - Total acres grades set equal to acres of solar project site, 239 acres.

Vehicle Trips - Client provided information

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Road Dust - Default values

Area Coating - Default values

Landscape Equipment - Default values

Energy Use - Default values

Water And Wastewater - Client provided information for outdoor water use.

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Fleet Mix -

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	6775	500
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tblConstructionPhase	NumDays	465.00	54.00
tblConstructionPhase	NumDays	180.00	41.00
tblConstructionPhase	NumDays	180.00	78.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

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tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
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tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00

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tblTripsAndVMT	HaulingTripNumber	0.00	2.00
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tblTripsAndVMT	HaulingTripNumber	0.00	32.00

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tblTripsAndVMT	WorkerTripNumber	6.00	76.00

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tblTripsAndVMT	WorkerTripNumber	5.00	30.00
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tblVehicleTrips	SU_TR	1.68	8.00
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tblWater	OutdoorWaterUseRate	0.00	6,285,770.00

2.0 Emissions Summary

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2.1 Overall Construction <u>Unmitigated Construction</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					ton	s/yr							MT	/yr		
2023	0.4247	4.2205	4.2416	0.0151	23.7402	0.1352	23.8753	2.5075	0.1244	2.6319	0.0000	1,376.272 1	1,376.272 1	0.1905	0.0000	1,381.034 0
Maximum	0.4247	4.2205	4.2416	0.0151	23.7402	0.1352	23.8753	2.5075	0.1244	2.6319	0.0000	1,376.272 1	1,376.272 1	0.1905	0.0000	1,381.034 0

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					ton	s/yr							MT	⁻ /yr		
2023	0.4247	4.2205	4.2416	0.0151	14.6714	0.1352	14.8066	1.5695	0.1244	1.6939	0.0000	1,376.271 4	1,376.271 4	0.1905	0.0000	1,381.033 3
Maximum	0.4247	4.2205	4.2416	0.0151	14.6714	0.1352	14.8066	1.5695	0.1244	1.6939	0.0000	1,376.271 4	1,376.271 4	0.1905	0.0000	1,381.033 3

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	38.20	0.00	37.98	37.41	0.00	35.64	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2023	7-31-2023	2.2377	2.2377
2	8-1-2023	9-30-2023	1.6841	1.6841
		Highest	2.2377	2.2377

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	√yr		
Area	0.0536	0.0000	1.2000e- 004	0.0000		0.0000	0.0000	 	0.0000	0.0000	0.0000	2.4000e- 004	2.4000e- 004	0.0000	0.0000	2.6000e- 004
Energy	1.3200e- 003	0.0120	0.0101	7.0000e- 005		9.1000e- 004	9.1000e- 004	 	9.1000e- 004	9.1000e- 004	0.0000	25.1929	25.1929	1.9200e- 003	5.9000e- 004	25.4156
Mobile	0.0358	0.3155	0.4396	2.2500e- 003	0.1592	1.5000e- 003	0.1607	0.0428	1.4100e- 003	0.0442	0.0000	208.0666	208.0666	9.1100e- 003	0.0000	208.2943
Waste	r,		1 1 1			0.0000	0.0000	1 	0.0000	0.0000	0.1908	0.0000	0.1908	0.0113	0.0000	0.4727
Water						0.0000	0.0000		0.0000	0.0000	0.0734	2.2148	2.2882	7.8400e- 003	2.4000e- 004	2.5561
Total	0.0907	0.3275	0.4498	2.3200e- 003	0.1592	2.4100e- 003	0.1616	0.0428	2.3200e- 003	0.0451	0.2642	235.4746	235.7388	0.0302	8.3000e- 004	236.7390

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Area	0.0536	0.0000	1.2000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e- 004	2.4000e- 004	0.0000	0.0000	2.6000e- 004
Energy	1.3200e- 003	0.0120	0.0101	7.0000e- 005		9.1000e- 004	9.1000e- 004		9.1000e- 004	9.1000e- 004	0.0000	25.1929	25.1929	1.9200e- 003	5.9000e- 004	25.4156
Mobile	0.0358	0.3155	0.4396	2.2500e- 003	0.1592	1.5000e- 003	0.1607	0.0428	1.4100e- 003	0.0442	0.0000	208.0666	208.0666	9.1100e- 003	0.0000	208.2943
Waste						0.0000	0.0000		0.0000	0.0000	0.1908	0.0000	0.1908	0.0113	0.0000	0.4727
Water						0.0000	0.0000		0.0000	0.0000	0.0734	2.2148	2.2882	7.8400e- 003	2.4000e- 004	2.5561
Total	0.0907	0.3275	0.4498	2.3200e- 003	0.1592	2.4100e- 003	0.1616	0.0428	2.3200e- 003	0.0451	0.2642	235.4746	235.7388	0.0302	8.3000e- 004	236.7390

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2023	6/26/2023	5	41	
2	Perimeter Fence Installation	Trenching	5/1/2023	6/12/2023	5	31	
3	Interconneciton Construction	Trenching	5/31/2023	9/13/2023	5	76	
4	Underground work (trenching)	Grading	6/15/2023	8/29/2023	5	54	
5	Energy Storage System	Building Construction	6/15/2023	10/13/2023	5	87	
6	System Installation	Building Construction	6/15/2023	10/13/2023	5	87	
7	Testing/Site Clean up	Site Preparation	9/13/2023	12/31/2023	5	78	

Acres of Grading (Site Preparation Phase): 239

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers		8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes		8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	200	0.38
Perimeter Fence Installation	Rough Terrain Forklifts		8.00	100	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Interconneciton Construction	Aerial Lifts	1	8.00	63	0.31

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Interconneciton Construction	Cranes	2	8.00	231	0.29
Interconneciton Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Underground work (trenching)	Excavators	2	8.00	158	0.38
Underground work (trenching)	Graders	0	8.00	187	0.41
Underground work (trenching)	Off-Highway Trucks	0		402	0.38
Underground work (trenching)	Other Construction Equipment	1	8.00	440	0.42
Underground work (trenching)	Rollers	1	8.00	80	0.38
Underground work (trenching)	Rough Terrain Forklifts	1	8.00	100	0.40
Underground work (trenching)	Rubber Tired Dozers	0	8.00	247	0.40
Underground work (trenching)	Scrapers	0	8.00	367	0.48
Underground work (trenching)	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	8.00	89	0.20
Energy Storage System	Generator Sets	0	8.00	84	0.74
Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Energy Storage System	Welders	0	8.00	46	0.45
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	8.00	89	0.20
System Installation	Generator Sets	0	8.00	84	0.74
System Installation	Off-Highway Tractors	20	8.00	50	0.44
System Installation	Off-Highway Trucks	0		402	0.38
System Installation	Off-Highway Trucks	0		402	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	8	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37

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System Installation	Welders	0	8.00	46	0.45
Testing/Site Clean up	Graders	1	8.00	187	0.41
Testing/Site Clean up	Off-Highway Trucks	0		402	0.38
Testing/Site Clean up	Skid Steer Loaders	1	8.00	65	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	6	26.00	18.00	16.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence	4	20.00	14.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Interconneciton	4	26.00	2.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Underground work	5	26.00	8.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Energy Storage	6	16.00	2.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
System Installation	33	76.00	26.00	32.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Testing/Site Clean up	2	30.00	18.00	8.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Site Preparation - 2023
Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton			MT	/yr							
Fugitive Dust	11 11 11				0.2502	0.0000	0.2502	0.0815	0.0000	0.0815	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0392	0.4344	0.2548	6.2000e- 004		0.0180	0.0180	 	0.0165	0.0165	0.0000	54.2762	54.2762	0.0176	0.0000	54.7151
Total	0.0392	0.4344	0.2548	6.2000e- 004	0.2502	0.0180	0.2681	0.0815	0.0165	0.0981	0.0000	54.2762	54.2762	0.0176	0.0000	54.7151

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		tons/yr											МТ	/уг		
Hauling	1.5000e- 004	3.8100e- 003	1.0200e- 003	3.0000e- 005	0.0110	1.0000e- 005	0.0110	1.2100e- 003	1.0000e- 005	1.2200e- 003	0.0000	2.5139	2.5139	4.0000e- 005	0.0000	2.5149
Vendor	4.5700e- 003	0.1145	0.0285	8.1000e- 004	1.0923	2.8000e- 004	1.0926	0.1136	2.7000e- 004	0.1139	0.0000	77.1813	77.1813	9.1000e- 004	0.0000	77.2041
Worker	6.7900e- 003	4.8000e- 003	0.0517	1.8000e- 004	1.0475	1.3000e- 004	1.0476	0.1077	1.2000e- 004	0.1078	0.0000	15.9405	15.9405	3.7000e- 004	0.0000	15.9497
Total	0.0115	0.1231	0.0812	1.0200e- 003	2.1508	4.2000e- 004	2.1512	0.2226	4.0000e- 004	0.2230	0.0000	95.6357	95.6357	1.3200e- 003	0.0000	95.6687

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3.2 Site Preparation - 2023

<u>Mitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												MT	/yr		
Fugitive Dust	11 11 11				0.1126	0.0000	0.1126	0.0367	0.0000	0.0367	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0392	0.4344	0.2548	6.2000e- 004		0.0180	0.0180		0.0165	0.0165	0.0000	54.2762	54.2762	0.0176	0.0000	54.7150
Total	0.0392	0.4344	0.2548	6.2000e- 004	0.1126	0.0180	0.1305	0.0367	0.0165	0.0532	0.0000	54.2762	54.2762	0.0176	0.0000	54.7150

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		tons/yr											MT	⁻ /yr		
Hauling	1.5000e- 004	3.8100e- 003	1.0200e- 003	3.0000e- 005	6.9800e- 003	1.0000e- 005	6.9900e- 003	8.1000e- 004	1.0000e- 005	8.2000e- 004	0.0000	2.5139	2.5139	4.0000e- 005	0.0000	2.5149
Vendor	4.5700e- 003	0.1145	0.0285	8.1000e- 004	0.6783	2.8000e- 004	0.6786	0.0722	2.7000e- 004	0.0725	0.0000	77.1813	77.1813	9.1000e- 004	0.0000	77.2041
Worker	6.7900e- 003	4.8000e- 003	0.0517	1.8000e- 004	0.6488	1.3000e- 004	0.6489	0.0679	1.2000e- 004	0.0680	0.0000	15.9405	15.9405	3.7000e- 004	0.0000	15.9497
Total	0.0115	0.1231	0.0812	1.0200e- 003	1.3340	4.2000e- 004	1.3344	0.1409	4.0000e- 004	0.1413	0.0000	95.6357	95.6357	1.3200e- 003	0.0000	95.6687

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3.3 Perimeter Fence Installation - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												MT	/yr		
1	4.6700e- 003	0.0619	0.0999	1.5000e- 004		2.0600e- 003	2.0600e- 003		1.8900e- 003	1.8900e- 003	0.0000	13.1511	13.1511	4.2500e- 003	0.0000	13.2574
Total	4.6700e- 003	0.0619	0.0999	1.5000e- 004		2.0600e- 003	2.0600e- 003		1.8900e- 003	1.8900e- 003	0.0000	13.1511	13.1511	4.2500e- 003	0.0000	13.2574

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		tons/yr											MT	⁻ /yr		
Hauling	2.0000e- 005	4.8000e- 004	1.3000e- 004	0.0000	1.3700e- 003	0.0000	1.3700e- 003	1.5000e- 004	0.0000	1.5000e- 004	0.0000	0.3142	0.3142	0.0000	0.0000	0.3144
Vendor	2.6900e- 003	0.0674	0.0168	4.8000e- 004	0.6424	1.7000e- 004	0.6425	0.0668	1.6000e- 004	0.0670	0.0000	45.3884	45.3884	5.4000e- 004	0.0000	45.4019
Worker	3.9500e- 003	2.7900e- 003	0.0300	1.0000e- 004	0.6092	7.0000e- 005	0.6093	0.0627	7.0000e- 005	0.0627	0.0000	9.2712	9.2712	2.1000e- 004	0.0000	9.2766
Total	6.6600e- 003	0.0706	0.0470	5.8000e- 004	1.2530	2.4000e- 004	1.2532	0.1296	2.3000e- 004	0.1299	0.0000	54.9739	54.9739	7.5000e- 004	0.0000	54.9928

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3.3 Perimeter Fence Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category													MT	/yr		
1	4.6700e- 003	0.0619	0.0999	1.5000e- 004		2.0600e- 003	2.0600e- 003		1.8900e- 003	1.8900e- 003	0.0000	13.1511	13.1511	4.2500e- 003	0.0000	13.2574
Total	4.6700e- 003	0.0619	0.0999	1.5000e- 004		2.0600e- 003	2.0600e- 003		1.8900e- 003	1.8900e- 003	0.0000	13.1511	13.1511	4.2500e- 003	0.0000	13.2574

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.0000e- 005	4.8000e- 004	1.3000e- 004	0.0000	8.7000e- 004	0.0000	8.7000e- 004	1.0000e- 004	0.0000	1.0000e- 004	0.0000	0.3142	0.3142	0.0000	0.0000	0.3144
	2.6900e- 003	0.0674	0.0168	4.8000e- 004	0.3989	1.7000e- 004	0.3990	0.0425	1.6000e- 004	0.0426	0.0000	45.3884	45.3884	5.4000e- 004	0.0000	45.4019
Worker	3.9500e- 003	2.7900e- 003	0.0300	1.0000e- 004	0.3773	7.0000e- 005	0.3774	0.0395	7.0000e- 005	0.0395	0.0000	9.2712	9.2712	2.1000e- 004	0.0000	9.2766
Total	6.6600e- 003	0.0706	0.0470	5.8000e- 004	0.7771	2.4000e- 004	0.7773	0.0820	2.3000e- 004	0.0823	0.0000	54.9739	54.9739	7.5000e- 004	0.0000	54.9928

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3.4 Interconneciton Construction - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.0338	0.3686	0.2657	6.2000e- 004		0.0153	0.0153		0.0141	0.0141	0.0000	54.5306	54.5306	0.0176	0.0000	54.9715
Total	0.0338	0.3686	0.2657	6.2000e- 004		0.0153	0.0153		0.0141	0.0141	0.0000	54.5306	54.5306	0.0176	0.0000	54.9715

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.0000e- 005	4.8000e- 004	1.3000e- 004	0.0000	1.3700e- 003	0.0000	1.3700e- 003	1.5000e- 004	0.0000	1.5000e- 004	0.0000	0.3142	0.3142	0.0000	0.0000	0.3144
Vendor	9.4000e- 004	0.0236	5.8800e- 003	1.7000e- 004	0.2250	6.0000e- 005	0.2250	0.0234	6.0000e- 005	0.0235	0.0000	15.8964	15.8964	1.9000e- 004	0.0000	15.9011
Worker	0.0126	8.9000e- 003	0.0957	3.3000e- 004	1.9417	2.3000e- 004	1.9420	0.1997	2.2000e- 004	0.1999	0.0000	29.5483	29.5483	6.8000e- 004	0.0000	29.5654
Total	0.0135	0.0330	0.1018	5.0000e- 004	2.1681	2.9000e- 004	2.1684	0.2232	2.8000e- 004	0.2235	0.0000	45.7589	45.7589	8.7000e- 004	0.0000	45.7808

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3.4 Interconneciton Construction - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0338	0.3686	0.2657	6.2000e- 004		0.0153	0.0153		0.0141	0.0141	0.0000	54.5306	54.5306	0.0176	0.0000	54.9715
Total	0.0338	0.3686	0.2657	6.2000e- 004		0.0153	0.0153		0.0141	0.0141	0.0000	54.5306	54.5306	0.0176	0.0000	54.9715

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.0000e- 005	4.8000e- 004	1.3000e- 004	0.0000	8.7000e- 004	0.0000	8.7000e- 004	1.0000e- 004	0.0000	1.0000e- 004	0.0000	0.3142	0.3142	0.0000	0.0000	0.3144
Vendor	9.4000e- 004	0.0236	5.8800e- 003	1.7000e- 004	0.1397	6.0000e- 005	0.1398	0.0149	6.0000e- 005	0.0149	0.0000	15.8964	15.8964	1.9000e- 004	0.0000	15.9011
Worker	0.0126	8.9000e- 003	0.0957	3.3000e- 004	1.2026	2.3000e- 004	1.2028	0.1258	2.2000e- 004	0.1260	0.0000	29.5483	29.5483	6.8000e- 004	0.0000	29.5654
Total	0.0135	0.0330	0.1018	5.0000e- 004	1.3432	2.9000e- 004	1.3435	0.1408	2.8000e- 004	0.1410	0.0000	45.7589	45.7589	8.7000e- 004	0.0000	45.7808

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3.5 Underground work (trenching) - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
1 agilive Busi	 				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3244	0.4105	8.8000e- 004		0.0138	0.0138		0.0127	0.0127	0.0000	76.9150	76.9150	0.0249	0.0000	77.5369
Total	0.0331	0.3244	0.4105	8.8000e- 004	0.0000	0.0138	0.0138	0.0000	0.0127	0.0127	0.0000	76.9150	76.9150	0.0249	0.0000	77.5369

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.0000e- 005	4.8000e- 004	1.3000e- 004	0.0000	1.3700e- 003	0.0000	1.3700e- 003	1.5000e- 004	0.0000	1.5000e- 004	0.0000	0.3142	0.3142	0.0000	0.0000	0.3144
Vendor	2.6800e- 003	0.0670	0.0167	4.8000e- 004	0.6394	1.7000e- 004	0.6396	0.0665	1.6000e- 004	0.0667	0.0000	45.1793	45.1793	5.4000e- 004	0.0000	45.1927
Worker	8.9400e- 003	6.3200e- 003	0.0680	2.3000e- 004	1.3796	1.7000e- 004	1.3798	0.1419	1.5000e- 004	0.1420	0.0000	20.9948	20.9948	4.9000e- 004	0.0000	21.0070
Total	0.0116	0.0738	0.0849	7.1000e- 004	2.0204	3.4000e- 004	2.0208	0.2086	3.1000e- 004	0.2089	0.0000	66.4883	66.4883	1.0300e- 003	0.0000	66.5140

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3.5 Underground work (trenching) - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3244	0.4105	8.8000e- 004		0.0138	0.0138	 	0.0127	0.0127	0.0000	76.9149	76.9149	0.0249	0.0000	77.5368
Total	0.0331	0.3244	0.4105	8.8000e- 004	0.0000	0.0138	0.0138	0.0000	0.0127	0.0127	0.0000	76.9149	76.9149	0.0249	0.0000	77.5368

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	⁻ /yr		
Hauling	2.0000e- 005	4.8000e- 004	1.3000e- 004	0.0000	8.7000e- 004	0.0000	8.7000e- 004	1.0000e- 004	0.0000	1.0000e- 004	0.0000	0.3142	0.3142	0.0000	0.0000	0.3144
Vendor	2.6800e- 003	0.0670	0.0167	4.8000e- 004	0.3970	1.7000e- 004	0.3972	0.0423	1.6000e- 004	0.0424	0.0000	45.1793	45.1793	5.4000e- 004	0.0000	45.1927
Worker	8.9400e- 003	6.3200e- 003	0.0680	2.3000e- 004	0.8545	1.7000e- 004	0.8547	0.0894	1.5000e- 004	0.0895	0.0000	20.9948	20.9948	4.9000e- 004	0.0000	21.0070
Total	0.0116	0.0738	0.0849	7.1000e- 004	1.2524	3.4000e- 004	1.2527	0.1317	3.1000e- 004	0.1321	0.0000	66.4883	66.4883	1.0300e- 003	0.0000	66.5140

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3.6 Energy Storage System - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0504	0.6119	0.5514	1.1400e- 003		0.0213	0.0213	i i i	0.0196	0.0196	0.0000	100.0331	100.0331	0.0324	0.0000	100.8419
Total	0.0504	0.6119	0.5514	1.1400e- 003		0.0213	0.0213		0.0196	0.0196	0.0000	100.0331	100.0331	0.0324	0.0000	100.8419

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.0000e- 005	4.8000e- 004	1.3000e- 004	0.0000	1.3700e- 003	0.0000	1.3700e- 003	1.5000e- 004	0.0000	1.5000e- 004	0.0000	0.3142	0.3142	0.0000	0.0000	0.3144
Vendor	1.0800e- 003	0.0270	6.7300e- 003	1.9000e- 004	0.2575	7.0000e- 005	0.2576	0.0268	6.0000e- 005	0.0269	0.0000	18.1972	18.1972	2.2000e- 004	0.0000	18.2026
Worker	8.8600e- 003	6.2700e- 003	0.0674	2.3000e- 004	1.3679	1.6000e- 004	1.3680	0.1407	1.5000e- 004	0.1408	0.0000	20.8154	20.8154	4.8000e- 004	0.0000	20.8274
Total	9.9600e- 003	0.0338	0.0743	4.2000e- 004	1.6268	2.3000e- 004	1.6270	0.1676	2.1000e- 004	0.1678	0.0000	39.3268	39.3268	7.0000e- 004	0.0000	39.3444

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3.6 Energy Storage System - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0504	0.6119	0.5514	1.1400e- 003		0.0213	0.0213		0.0196	0.0196	0.0000	100.0330	100.0330	0.0324	0.0000	100.8418
Total	0.0504	0.6119	0.5514	1.1400e- 003		0.0213	0.0213		0.0196	0.0196	0.0000	100.0330	100.0330	0.0324	0.0000	100.8418

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.0000e- 005	4.8000e- 004	1.3000e- 004	0.0000	8.7000e- 004	0.0000	8.7000e- 004	1.0000e- 004	0.0000	1.0000e- 004	0.0000	0.3142	0.3142	0.0000	0.0000	0.3144
Vendor	1.0800e- 003	0.0270	6.7300e- 003	1.9000e- 004	0.1599	7.0000e- 005	0.1600	0.0170	6.0000e- 005	0.0171	0.0000	18.1972	18.1972	2.2000e- 004	0.0000	18.2026
Worker	8.8600e- 003	6.2700e- 003	0.0674	2.3000e- 004	0.8472	1.6000e- 004	0.8473	0.0886	1.5000e- 004	0.0888	0.0000	20.8154	20.8154	4.8000e- 004	0.0000	20.8274
Total	9.9600e- 003	0.0338	0.0743	4.2000e- 004	1.0080	2.3000e- 004	1.0082	0.1057	2.1000e- 004	0.1059	0.0000	39.3268	39.3268	7.0000e- 004	0.0000	39.3444

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3.7 System Installation - 2023
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.1127	1.2511	1.5722	2.5300e- 003		0.0537	0.0537		0.0494	0.0494	0.0000	221.8700	221.8700	0.0718	0.0000	223.6639
Total	0.1127	1.2511	1.5722	2.5300e- 003		0.0537	0.0537		0.0494	0.0494	0.0000	221.8700	221.8700	0.0718	0.0000	223.6639

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	ıs/yr							MT	⁻ /yr		
Hauling	3.1000e- 004	7.6200e- 003	2.0300e- 003	5.0000e- 005	0.0219	2.0000e- 005	0.0220	2.4300e- 003	2.0000e- 005	2.4500e- 003	0.0000	5.0278	5.0278	8.0000e- 005	0.0000	5.0297
Vendor	0.0140	0.3510	0.0875	2.4900e- 003	3.3480	8.7000e- 004	3.3489	0.3483	8.3000e- 004	0.3491	0.0000	236.5637	236.5637	2.8000e- 003	0.0000	236.6338
Worker	0.0421	0.0298	0.3204	1.0900e- 003	6.4973	7.8000e- 004	6.4981	0.6682	7.2000e- 004	0.6689	0.0000	98.8731	98.8731	2.2900e- 003	0.0000	98.9302
Total	0.0564	0.3884	0.4099	3.6300e- 003	9.8673	1.6700e- 003	9.8689	1.0189	1.5700e- 003	1.0205	0.0000	340.4646	340.4646	5.1700e- 003	0.0000	340.5938

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3.7 System Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1127	1.2511	1.5722	2.5300e- 003		0.0537	0.0537		0.0494	0.0494	0.0000	221.8697	221.8697	0.0718	0.0000	223.6636
Total	0.1127	1.2511	1.5722	2.5300e- 003		0.0537	0.0537		0.0494	0.0494	0.0000	221.8697	221.8697	0.0718	0.0000	223.6636

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	ıs/yr							MT	/yr		
Hauling	3.1000e- 004	7.6200e- 003	2.0300e- 003	5.0000e- 005	0.0140	2.0000e- 005	0.0140	1.6300e- 003	2.0000e- 005	1.6500e- 003	0.0000	5.0278	5.0278	8.0000e- 005	0.0000	5.0297
Vendor	0.0140	0.3510	0.0875	2.4900e- 003	2.0789	8.7000e- 004	2.0798	0.2214	8.3000e- 004	0.2222	0.0000	236.5637	236.5637	2.8000e- 003	0.0000	236.6338
Worker	0.0421	0.0298	0.3204	1.0900e- 003	4.0241	7.8000e- 004	4.0249	0.4208	7.2000e- 004	0.4216	0.0000	98.8731	98.8731	2.2900e- 003	0.0000	98.9302
Total	0.0564	0.3884	0.4099	3.6300e- 003	6.1170	1.6700e- 003	6.1186	0.6439	1.5700e- 003	0.6454	0.0000	340.4646	340.4646	5.1700e- 003	0.0000	340.5938

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3.8 Testing/Site Clean up - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	-/yr		
Fugitive Dust					0.0207	0.0000	0.0207	2.2300e- 003	0.0000	2.2300e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.2152	0.1200	3.4000e- 004		7.0200e- 003	7.0200e- 003		6.4600e- 003	6.4600e- 003	0.0000	29.7668	29.7668	9.6300e- 003	0.0000	30.0075
Total	0.0175	0.2152	0.1200	3.4000e- 004	0.0207	7.0200e- 003	0.0277	2.2300e- 003	6.4600e- 003	8.6900e- 003	0.0000	29.7668	29.7668	9.6300e- 003	0.0000	30.0075

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	8.0000e- 005	1.9100e- 003	5.1000e- 004	1.0000e- 005	5.4800e- 003	1.0000e- 005	5.4900e- 003	6.1000e- 004	1.0000e- 005	6.1000e- 004	0.0000	1.2570	1.2570	2.0000e- 005	0.0000	1.2574
Vendor	8.7000e- 003	0.2179	0.0543	1.5400e- 003	2.0781	5.4000e- 004	2.0786	0.2162	5.2000e- 004	0.2167	0.0000	146.8327	146.8327	1.7400e- 003	0.0000	146.8762
Worker	0.0149	0.0105	0.1134	3.9000e- 004	2.2994	2.8000e- 004	2.2997	0.2365	2.6000e- 004	0.2367	0.0000	34.9914	34.9914	8.1000e- 004	0.0000	35.0116
Total	0.0237	0.2303	0.1682	1.9400e- 003	4.3830	8.3000e- 004	4.3838	0.4533	7.9000e- 004	0.4540	0.0000	183.0810	183.0810	2.5700e- 003	0.0000	183.1452

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3.8 Testing/Site Clean up - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.3100e- 003	0.0000	9.3100e- 003	1.0000e- 003	0.0000	1.0000e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.2152	0.1200	3.4000e- 004		7.0200e- 003	7.0200e- 003	1 1 1	6.4600e- 003	6.4600e- 003	0.0000	29.7668	29.7668	9.6300e- 003	0.0000	30.0075
Total	0.0175	0.2152	0.1200	3.4000e- 004	9.3100e- 003	7.0200e- 003	0.0163	1.0000e- 003	6.4600e- 003	7.4600e- 003	0.0000	29.7668	29.7668	9.6300e- 003	0.0000	30.0075

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	⁻ /yr		
Hauling	8.0000e- 005	1.9100e- 003	5.1000e- 004	1.0000e- 005	3.4900e- 003	1.0000e- 005	3.4900e- 003	4.1000e- 004	1.0000e- 005	4.1000e- 004	0.0000	1.2570	1.2570	2.0000e- 005	0.0000	1.2574
Vendor	8.7000e- 003	0.2179	0.0543	1.5400e- 003	1.2904	5.4000e- 004	1.2909	0.1374	5.2000e- 004	0.1379	0.0000	146.8327	146.8327	1.7400e- 003	0.0000	146.8762
Worker	0.0149	0.0105	0.1134	3.9000e- 004	1.4241	2.8000e- 004	1.4244	0.1489	2.6000e- 004	0.1492	0.0000	34.9914	34.9914	8.1000e- 004	0.0000	35.0116
Total	0.0237	0.2303	0.1682	1.9400e- 003	2.7180	8.3000e- 004	2.7188	0.2868	7.9000e- 004	0.2875	0.0000	183.0810	183.0810	2.5700e- 003	0.0000	183.1452

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.0358	0.3155	0.4396	2.2500e- 003	0.1592	1.5000e- 003	0.1607	0.0428	1.4100e- 003	0.0442	0.0000	208.0666	208.0666	9.1100e- 003	0.0000	208.2943
Unmitigated	0.0358	0.3155	0.4396	2.2500e- 003	0.1592	1.5000e- 003	0.1607	0.0428	1.4100e- 003	0.0442	0.0000	208.0666	208.0666	9.1100e- 003	0.0000	208.2943

4.2 Trip Summary Information

	Avei	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	108.40	108.40	108.40	418,800	418,800
Total	108.40	108.40	108.40	418,800	418,800

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W H-S or C-C H-O or C-NW			H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.529564	0.031735	0.175601	0.112621	0.019191	0.004761	0.027424	0.090197	0.001836	0.001047	0.004420	0.000822	0.000781

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category												МТ	/yr			
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12.1197	12.1197	1.6700e- 003	3.5000e- 004	12.2647
Electricity Unmitigated	61 61 61 61 61					0.0000	0.0000	 	0.0000	0.0000	0.0000	12.1197	12.1197	1.6700e- 003	3.5000e- 004	12.2647
NaturalOas	1.3200e- 003	0.0120	0.0101	7.0000e- 005		9.1000e- 004	9.1000e- 004	 	9.1000e- 004	9.1000e- 004	0.0000	13.0733	13.0733	2.5000e- 004	2.4000e- 004	13.1510
NaturalOas	1.3200e- 003	0.0120	0.0101	7.0000e- 005	 	9.1000e- 004	9.1000e- 004		9.1000e- 004	9.1000e- 004	0.0000	13.0733	13.0733	2.5000e- 004	2.4000e- 004	13.1510

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5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr MT/yr															
Unrefrigerated Warehouse-No Rail	244984	1.3200e- 003	0.0120	0.0101	7.0000e- 005		9.1000e- 004	9.1000e- 004		9.1000e- 004	9.1000e- 004	0.0000	13.0733	13.0733	2.5000e- 004	2.4000e- 004	13.1510
Total		1.3200e- 003	0.0120	0.0101	7.0000e- 005		9.1000e- 004	9.1000e- 004		9.1000e- 004	9.1000e- 004	0.0000	13.0733	13.0733	2.5000e- 004	2.4000e- 004	13.1510

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr												MT	/yr		
Unrefrigerated Warehouse-No Rail	244984	1.3200e- 003	0.0120	0.0101	7.0000e- 005		9.1000e- 004	9.1000e- 004		9.1000e- 004	9.1000e- 004	0.0000	13.0733	13.0733	2.5000e- 004	2.4000e- 004	13.1510
Total		1.3200e- 003	0.0120	0.0101	7.0000e- 005		9.1000e- 004	9.1000e- 004		9.1000e- 004	9.1000e- 004	0.0000	13.0733	13.0733	2.5000e- 004	2.4000e- 004	13.1510

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5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	-/yr	
Unrefrigerated Warehouse-No Rail		12.1197	1.6700e- 003	3.5000e- 004	12.2647
Total		12.1197	1.6700e- 003	3.5000e- 004	12.2647

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e					
Land Use	kWh/yr	MT/yr								
Unrefrigerated Warehouse-No Rail	127235		1.6700e- 003	3.5000e- 004	12.2647					
Total		12.1197	1.6700e- 003	3.5000e- 004	12.2647					

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												МТ	⁻ /yr		
Mitigated	0.0536	0.0000	1.2000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e- 004	2.4000e- 004	0.0000	0.0000	2.6000e- 004
Unmitigated	0.0536	0.0000	1.2000e- 004	0.0000	i i	0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e- 004	2.4000e- 004	0.0000	0.0000	2.6000e- 004

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	y tons/yr												MT	-/yr		
7 11 01 11 00 10 10 1	7.0000e- 004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0529		1 1 1			0.0000	0.0000	1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e- 005	0.0000	1.2000e- 004	0.0000		0.0000	0.0000	1 1 1 1	0.0000	0.0000	0.0000	2.4000e- 004	2.4000e- 004	0.0000	0.0000	2.6000e- 004
Total	0.0536	0.0000	1.2000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e- 004	2.4000e- 004	0.0000	0.0000	2.6000e- 004

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6.2 Area by SubCategory Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	y tons/yr MT/yr															
O	7.0000e- 004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0529			 		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e- 005	0.0000	1.2000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e- 004	2.4000e- 004	0.0000	0.0000	2.6000e- 004
Total	0.0536	0.0000	1.2000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4000e- 004	2.4000e- 004	0.0000	0.0000	2.6000e- 004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category		MT	/yr	
Willigatod	2.2882	7.8400e- 003	2.4000e- 004	2.5561
Unmitigated	2.2882	7.8400e- 003	2.4000e- 004	2.5561

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	-/yr	
Unrefrigerated Warehouse-No Rail	0.23125 / 6.28577		7.8400e- 003	2.4000e- 004	2.5561
Total		2.2882	7.8400e- 003	2.4000e- 004	2.5561

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7.2 Water by Land Use Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	-/yr	
Unrefrigerated Warehouse-No Rail	0.23125 / 6.28577		7.8400e- 003	2.4000e- 004	2.5561
Total		2.2882	7.8400e- 003	2.4000e- 004	2.5561

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e		
	MT/yr					
willigated	0.1908	0.0113	0.0000	0.4727		
Chiningatod	0.1908	0.0113	0.0000	0.4727		

Crow Creek Solar - Stanislaus County, Annual

8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	-/yr	
Unrefrigerated Warehouse-No Rail	0.94	0.1908	0.0113	0.0000	0.4727
Total		0.1908	0.0113	0.0000	0.4727

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	/yr	
Unrefrigerated Warehouse-No Rail	0.94	0.1908	0.0113	0.0000	0.4727
Total		0.1908	0.0113	0.0000	0.4727

9.0 Operational Offroad

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

Crow Creek Solar - Stanislaus County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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Crow Creek Solar - Stanislaus County, Summer

Crow Creek Solar Stanislaus County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.55	1000sqft	239.00	13,550.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2024
Utility Company	Pacific Gas & Electric Cor	mpany			
CO2 Intensity (lb/MWhr)	210	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Crow Creek Solar - Stanislaus County, Summer

Project Characteristics - CO2 Intensity Factor per PG&E 2018 Sustainabiliy Report http://www.pgecorp.com/corp_responsibility/reports/2019/assets/PGE_CRSR_2019.pdf

Land Use - Crow Creek Phase II 239 acre project site.

Construction Phase - Client provided information

Off-road Equipment - Client provided information

Trips and VMT - Client provided information

On-road Fugitive Dust - Based on project site.

Grading - Total acres grades set equal to acres of solar project site, 239 acres.

Vehicle Trips - Client provided information

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Road Dust - Default values

Area Coating - Default values

Landscape Equipment - Default values

Energy Use - Default values

Water And Wastewater - Client provided information for outdoor water use.

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Fleet Mix -

Crow Creek Solar - Stanislaus County, Summer

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	6775	500
tblAreaCoating	Area_Nonresidential_Interior	20325	1500
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	4,650.00	87.00
tblConstructionPhase	NumDays	4,650.00	87.00
tblConstructionPhase	NumDays	465.00	54.00
tblConstructionPhase	NumDays	180.00	41.00
tblConstructionPhase	NumDays	180.00	78.00
tblGrading	AcresOfGrading	41.00	239.00
tblLandUse	LotAcreage	0.31	239.00
tblOffRoadEquipment	HorsePower	124.00	50.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	HorsePower	172.00	440.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00

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		•	1
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	210
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	12.74	0.94
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00

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tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
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tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	2.00	26.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	26.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblTripsAndVMT	WorkerTripNumber	6.00	16.00
tblTripsAndVMT	WorkerTripNumber	6.00	76.00

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tblTripsAndVMT	WorkerTripNumber	5.00	30.00
tblVehicleTrips	ST_TR	1.68	8.00
tblVehicleTrips	SU_TR	1.68	8.00
tblVehicleTrips	WD_TR	1.68	8.00
tblWater	IndoorWaterUseRate	3,133,437.50	231,250.00
tblWater	OutdoorWaterUseRate	0.00	6,285,770.00

2.0 Emissions Summary

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Crow Creek Solar - Stanislaus County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/c	lay		
2023	10.7206	104.2376	107.8577	0.3510	584.3166	3.5977	587.9143	62.8394	3.3116	66.1510	0.0000	35,169.42 48	35,169.42 48	5.4094	0.0000	35,304.65 94
Maximum	10.7206	104.2376	107.8577	0.3510	584.3166	3.5977	587.9143	62.8394	3.3116	66.1510	0.0000	35,169.42 48	35,169.42 48	5.4094	0.0000	35,304.65 94

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2023	10.7206	104.2376	107.8577	0.3510	359.7066	3.5977	363.3043	38.8619	3.3116	42.1735	0.0000	35,169.42 48	35,169.42 48	5.4094	0.0000	35,304.65 94
Maximum	10.7206	104.2376	107.8577	0.3510	359.7066	3.5977	363.3043	38.8619	3.3116	42.1735	0.0000	35,169.42 48	35,169.42 48	5.4094	0.0000	35,304.65 94

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	38.44	0.00	38.20	38.16	0.00	36.25	0.00	0.00	0.00	0.00	0.00	0.00

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Crow Creek Solar - Stanislaus County, Summer

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Area	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Energy	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Mobile	0.2333	1.6984	2.7123	0.0131	0.8984	8.2300e- 003	0.9067	0.2410	7.7100e- 003	0.2487		1,331.256 8	1,331.256 8	0.0549		1,332.630 2
Total	0.5345	1.7642	2.7689	0.0134	0.8984	0.0132	0.9117	0.2410	0.0127	0.2537		1,410.223 2	1,410.223 2	0.0565	1.4500e- 003	1,412.066 0

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Area	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Energy	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Mobile	0.2333	1.6984	2.7123	0.0131	0.8984	8.2300e- 003	0.9067	0.2410	7.7100e- 003	0.2487		1,331.256 8	1,331.256 8	0.0549		1,332.630 2
Total	0.5345	1.7642	2.7689	0.0134	0.8984	0.0132	0.9117	0.2410	0.0127	0.2537		1,410.223 2	1,410.223 2	0.0565	1.4500e- 003	1,412.066 0

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2023	6/26/2023	5	41	
2	Perimeter Fence Installation	Trenching	5/1/2023	6/12/2023	5	31	
3	Interconneciton Construction	Trenching	5/31/2023	9/13/2023	5	76	
4	Underground work (trenching)	Grading	6/15/2023	8/29/2023	5	54	
5	Energy Storage System	Building Construction	6/15/2023	10/13/2023	5	87	
6	System Installation	Building Construction	6/15/2023	10/13/2023	5	87	
7	Testing/Site Clean up	Site Preparation	9/13/2023	12/31/2023	5	78	

Acres of Grading (Site Preparation Phase): 239

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

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Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	200	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	· ├ 1	8.00	100	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Interconneciton Construction	Aerial Lifts	1	8.00	63	0.31
Interconneciton Construction	Cranes	2	8.00	231	0.29
Interconneciton Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Underground work (trenching)	Excavators	2	8.00	158	0.38
Underground work (trenching)	Graders	0	8.00	187	0.41
Underground work (trenching)	Off-Highway Trucks	0		402	0.38
Underground work (trenching)	Other Construction Equipment	· ├ 1	8.00	440	0.42
Underground work (trenching)	Rollers	· ├ 1	8.00	80	0.38
Underground work (trenching)	Rough Terrain Forklifts	· ├ 1	8.00	100	0.40
Underground work (trenching)	Rubber Tired Dozers	0	8.00	247	0.40
Underground work (trenching)	Scrapers	0	8.00	367	0.48
Underground work (trenching)	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	8.00	89	0.20
Energy Storage System	Generator Sets	0	8.00	84	0.74
Energy Storage System	Graders	· ├ 1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Energy Storage System	Welders	0	8.00	46	0.45
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	8.00	89	0.20
System Installation	Generator Sets	: 0	8.00	84	0.74

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System Installation	Off-Highway Tractors	20	8.00	50	0.44
System Installation	Off-Highway Trucks	0		402	0.38
System Installation	Off-Highway Trucks	0	·	402	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	8	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
System Installation	Welders	0	8.00	46	0.45
Testing/Site Clean up	Graders	1	8.00	187	0.41
Testing/Site Clean up	Off-Highway Trucks	0	·	402	0.38
Testing/Site Clean up	Skid Steer Loaders	1:	8.00	65	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	6	26.00	18.00	16.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence	4	20.00	14.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Interconneciton	4	26.00	2.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Underground work	5	26.00	8.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Energy Storage	6	16.00	2.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
System Installation	33	76.00	26.00	32.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Testing/Site Clean up	2	30.00	18.00	8.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Site Preparation - 2023
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					12.2040	0.0000	12.2040	3.9777	0.0000	3.9777			0.0000			0.0000
Off-Road	1.9104	21.1891	12.4274	0.0301		0.8754	0.8754		0.8054	0.8054		2,918.502 9	2,918.502 9	0.9439	,	2,942.100 4
Total	1.9104	21.1891	12.4274	0.0301	12.2040	0.8754	13.0795	3.9777	0.8054	4.7831		2,918.502 9	2,918.502 9	0.9439		2,942.100 4

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	7.5300e- 003	0.1789	0.0492	1.2900e- 003	0.6081	5.1000e- 004	0.6086	0.0666	4.9000e- 004	0.0671		135.4459	135.4459	2.0300e- 003		135.4967
Vendor	0.2225	5.3717	1.3813	0.0397	60.8233	0.0139	60.8372	6.2995	0.0133	6.3128		4,156.621 9	4,156.621 9	0.0477		4,157.813 8
Worker	0.3424	0.2154	3.0604	9.4300e- 003	58.3576	6.1600e- 003	58.3637	5.9829	5.6700e- 003	5.9886		940.1233	940.1233	0.0225		940.6868
Total	0.5725	5.7660	4.4909	0.0504	119.7890	0.0205	119.8095	12.3490	0.0194	12.3685		5,232.191 1	5,232.191 1	0.0723		5,233.997 3

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Crow Creek Solar - Stanislaus County, Summer

3.2 Site Preparation - 2023

<u>Mitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					5.4918	0.0000	5.4918	1.7900	0.0000	1.7900			0.0000			0.0000
Off-Road	1.9104	21.1891	12.4274	0.0301	 	0.8754	0.8754	 	0.8054	0.8054	0.0000	2,918.502 9	2,918.502 9	0.9439	1 1 1	2,942.100 4
Total	1.9104	21.1891	12.4274	0.0301	5.4918	0.8754	6.3672	1.7900	0.8054	2.5954	0.0000	2,918.502 9	2,918.502 9	0.9439		2,942.100 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	7.5300e- 003	0.1789	0.0492	1.2900e- 003	0.3854	5.1000e- 004	0.3859	0.0443	4.9000e- 004	0.0448		135.4459	135.4459	2.0300e- 003		135.4967
Vendor	0.2225	5.3717	1.3813	0.0397	37.7122	0.0139	37.7260	3.9884	0.0133	4.0017		4,156.621 9	4,156.621 9	0.0477		4,157.813 8
Worker	0.3424	0.2154	3.0604	9.4300e- 003	36.1024	6.1600e- 003	36.1086	3.7574	5.6700e- 003	3.7631		940.1233	940.1233	0.0225		940.6868
Total	0.5725	5.7660	4.4909	0.0504	74.2000	0.0205	74.2205	7.7901	0.0194	7.8096		5,232.191 1	5,232.191 1	0.0723		5,233.997 3

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Crow Creek Solar - Stanislaus County, Summer

3.3 Perimeter Fence Installation - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221		935.2621	935.2621	0.3025		942.8242
Total	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221		935.2621	935.2621	0.3025		942.8242

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		
Hauling	1.2400e- 003	0.0296	8.1300e- 003	2.1000e- 004	0.1005	8.0000e- 005	0.1006	0.0110	8.0000e- 005	0.0111		22.3923	22.3923	3.4000e- 004		22.4007
Vendor	0.1730	4.1780	1.0743	0.0308	47.3070	0.0108	47.3178	4.8996	0.0103	4.9100		3,232.928 2	3,232.928 2	0.0371		3,233.855 2
Worker	0.2634	0.1657	2.3541	7.2600e- 003	44.8904	4.7400e- 003	44.8952	4.6023	4.3600e- 003	4.6066		723.1717	723.1717	0.0173		723.6052
Total	0.4377	4.3732	3.4366	0.0383	92.2980	0.0156	92.3136	9.5129	0.0148	9.5277		3,978.492 2	3,978.492 2	0.0548		3,979.861 1

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Crow Creek Solar - Stanislaus County, Summer

3.3 Perimeter Fence Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221	0.0000	935.2621	935.2621	0.3025		942.8242
Total	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221	0.0000	935.2621	935.2621	0.3025		942.8242

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	1.2400e- 003	0.0296	8.1300e- 003	2.1000e- 004	0.0637	8.0000e- 005	0.0638	7.3200e- 003	8.0000e- 005	7.4000e- 003		22.3923	22.3923	3.4000e- 004		22.4007
Vendor	0.1730	4.1780	1.0743	0.0308	29.3317	0.0108	29.3425	3.1021	0.0103	3.1124		3,232.928 2	3,232.928 2	0.0371		3,233.855 2
Worker	0.2634	0.1657	2.3541	7.2600e- 003	27.7711	4.7400e- 003	27.7758	2.8903	4.3600e- 003	2.8947		723.1717	723.1717	0.0173		723.6052
Total	0.4377	4.3732	3.4366	0.0383	57.1665	0.0156	57.1821	5.9997	0.0148	6.0145		3,978.492 2	3,978.492	0.0548		3,979.861 1

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Crow Creek Solar - Stanislaus County, Summer

3.4 Interconneciton Construction - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714		1,581.834 8	1,581.834 8	0.5116		1,594.624 8
Total	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714		1,581.834 8	1,581.834 8	0.5116		1,594.624 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	5.1000e- 004	0.0121	3.3200e- 003	9.0000e- 005	0.0410	3.0000e- 005	0.0410	4.4900e- 003	3.0000e- 005	4.5200e- 003		9.1337	9.1337	1.4000e- 004		9.1371
Vendor	0.0247	0.5969	0.1535	4.4100e- 003	6.7582	1.5400e- 003	6.7597	0.7000	1.4700e- 003	0.7014		461.8469	461.8469	5.3000e- 003		461.9793
Worker	0.3424	0.2154	3.0604	9.4300e- 003	58.3576	6.1600e- 003	58.3637	5.9829	5.6700e- 003	5.9886		940.1233	940.1233	0.0225		940.6868
Total	0.3677	0.8243	3.2172	0.0139	65.1567	7.7300e- 003	65.1645	6.6874	7.1700e- 003	6.6945		1,411.103 8	1,411.103 8	0.0280		1,411.803 2

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Crow Creek Solar - Stanislaus County, Summer

3.4 Interconneciton Construction - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714	0.0000	1,581.834 8	1,581.834 8	0.5116		1,594.624 8
Total	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714	0.0000	1,581.834 8	1,581.834 8	0.5116		1,594.624 8

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	5.1000e- 004	0.0121	3.3200e- 003	9.0000e- 005	0.0260	3.0000e- 005	0.0260	2.9900e- 003	3.0000e- 005	3.0200e- 003		9.1337	9.1337	1.4000e- 004		9.1371
Vendor	0.0247	0.5969	0.1535	4.4100e- 003	4.1902	1.5400e- 003	4.1918	0.4432	1.4700e- 003	0.4446		461.8469	461.8469	5.3000e- 003		461.9793
Worker	0.3424	0.2154	3.0604	9.4300e- 003	36.1024	6.1600e- 003	36.1086	3.7574	5.6700e- 003	3.7631		940.1233	940.1233	0.0225		940.6868
Total	0.3677	0.8243	3.2172	0.0139	40.3186	7.7300e- 003	40.3264	4.2036	7.1700e- 003	4.2107		1,411.103 8	1,411.103 8	0.0280		1,411.803 2

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Crow Creek Solar - Stanislaus County, Summer

3.5 Underground work (trenching) - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2248	12.0135	15.2049	0.0324		0.5094	0.5094		0.4686	0.4686		3,140.157 9	3,140.157 9	1.0156	 	3,165.547 7
Total	1.2248	12.0135	15.2049	0.0324	0.0000	0.5094	0.5094	0.0000	0.4686	0.4686		3,140.157 9	3,140.157 9	1.0156		3,165.547 7

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	7.1000e- 004	0.0170	4.6700e- 003	1.2000e- 004	0.0577	5.0000e- 005	0.0578	6.3200e- 003	5.0000e- 005	6.3600e- 003		12.8548	12.8548	1.9000e- 004		12.8596
Vendor	0.0989	2.3874	0.6139	0.0176	27.0326	6.1600e- 003	27.0387	2.7998	5.9000e- 003	2.8057		1,847.387 5	1,847.387 5	0.0212		1,847.917 3
Worker	0.3424	0.2154	3.0604	9.4300e- 003	58.3576	6.1600e- 003	58.3637	5.9829	5.6700e- 003	5.9886		940.1233	940.1233	0.0225		940.6868
Total	0.4420	2.6198	3.6790	0.0272	85.4479	0.0124	85.4602	8.7890	0.0116	8.8006		2,800.365 6	2,800.365 6	0.0439	·	2,801.463 7

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Crow Creek Solar - Stanislaus County, Summer

3.5 Underground work (trenching) - 2023 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2248	12.0135	15.2049	0.0324	 	0.5094	0.5094	 	0.4686	0.4686	0.0000	3,140.157 9	3,140.157 9	1.0156	 	3,165.547 7
Total	1.2248	12.0135	15.2049	0.0324	0.0000	0.5094	0.5094	0.0000	0.4686	0.4686	0.0000	3,140.157 9	3,140.157 9	1.0156		3,165.547 7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
" ;	7.1000e- 004	0.0170	4.6700e- 003	1.2000e- 004	0.0366	5.0000e- 005	0.0366	4.2000e- 003	5.0000e- 005	4.2500e- 003		12.8548	12.8548	1.9000e- 004		12.8596
Vendor	0.0989	2.3874	0.6139	0.0176	16.7610	6.1600e- 003	16.7671	1.7726	5.9000e- 003	1.7785		1,847.387 5	1,847.387 5	0.0212		1,847.917 3
Worker	0.3424	0.2154	3.0604	9.4300e- 003	36.1024	6.1600e- 003	36.1086	3.7574	5.6700e- 003	3.7631		940.1233	940.1233	0.0225		940.6868
Total	0.4420	2.6198	3.6790	0.0272	52.8999	0.0124	52.9123	5.5342	0.0116	5.5459		2,800.365 6	2,800.365 6	0.0439		2,801.463 7

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Crow Creek Solar - Stanislaus County, Summer

3.6 Energy Storage System - 2023

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507		2,534.888 2	2,534.888 2	0.8198		2,555.384 1
Total	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507		2,534.888 2	2,534.888	0.8198		2,555.384 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	4.4000e- 004	0.0105	2.9000e- 003	8.0000e- 005	0.0358	3.0000e- 005	0.0359	3.9200e- 003	3.0000e- 005	3.9500e- 003		7.9789	7.9789	1.2000e- 004		7.9818
Vendor	0.0247	0.5969	0.1535	4.4100e- 003	6.7582	1.5400e- 003	6.7597	0.7000	1.4700e- 003	0.7014		461.8469	461.8469	5.3000e- 003		461.9793
Worker	0.2107	0.1325	1.8833	5.8000e- 003	35.9124	3.7900e- 003	35.9161	3.6818	3.4900e- 003	3.6853		578.5374	578.5374	0.0139		578.8842
Total	0.2359	0.7399	2.0397	0.0103	42.7063	5.3600e- 003	42.7117	4.3857	4.9900e- 003	4.3907		1,048.363 1	1,048.363 1	0.0193		1,048.845 3

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3.6 Energy Storage System - 2023 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507	0.0000	2,534.888 2	2,534.888 2	0.8198		2,555.384 1
Total	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507	0.0000	2,534.888 2	2,534.888 2	0.8198		2,555.384 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	4.4000e- 004	0.0105	2.9000e- 003	8.0000e- 005	0.0227	3.0000e- 005	0.0227	2.6100e- 003	3.0000e- 005	2.6400e- 003		7.9789	7.9789	1.2000e- 004		7.9818
Vendor	0.0247	0.5969	0.1535	4.4100e- 003	4.1902	1.5400e- 003	4.1918	0.4432	1.4700e- 003	0.4446		461.8469	461.8469	5.3000e- 003		461.9793
Worker	0.2107	0.1325	1.8833	5.8000e- 003	22.2169	3.7900e- 003	22.2207	2.3123	3.4900e- 003	2.3157		578.5374	578.5374	0.0139		578.8842
Total	0.2359	0.7399	2.0397	0.0103	26.4298	5.3600e- 003	26.4352	2.7580	4.9900e- 003	2.7630		1,048.363 1	1,048.363 1	0.0193		1,048.845 3

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Crow Creek Solar - Stanislaus County, Summer

3.7 System Installation - 2023
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360		5,622.293 5	5,622.293 5	1.8184		5,667.752 6
Total	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360		5,622.293 5	5,622.293 5	1.8184		5,667.752 6

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	7.1000e- 003	0.1686	0.0464	1.2200e- 003	0.5732	4.8000e- 004	0.5736	0.0627	4.6000e- 004	0.0632		127.6617	127.6617	1.9100e- 003		127.7095
Vendor	0.3214	7.7591	1.9952	0.0573	87.8559	0.0200	87.8759	9.0993	0.0192	9.1185		6,004.009 5	6,004.009 5	0.0689		6,005.7311
Worker	1.0010	0.6296	8.9457	0.0276	170.5836	0.0180	170.6017	17.4885	0.0166	17.5051		2,748.052 6	2,748.052 6	0.0659		2,749.699 8
Total	1.3295	8.5573	10.9873	0.0861	259.0127	0.0385	259.0512	26.6506	0.0362	26.6868		8,879.723 7	8,879.723 7	0.1367		8,883.140 4

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Crow Creek Solar - Stanislaus County, Summer

3.7 System Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360	0.0000	5,622.293 5	5,622.293 5	1.8184		5,667.752 6
Total	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360	0.0000	5,622.293 5	5,622.293 5	1.8184		5,667.752 6

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	7.1000e- 003	0.1686	0.0464	1.2200e- 003	0.3633	4.8000e- 004	0.3637	0.0418	4.6000e- 004	0.0422		127.6617	127.6617	1.9100e- 003		127.7095
Vendor	0.3214	7.7591	1.9952	0.0573	54.4731	0.0200	54.4932	5.7611	0.0192	5.7802		6,004.009 5	6,004.009 5	0.0689		6,005.7311
Worker	1.0010	0.6296	8.9457	0.0276	105.5301	0.0180	105.5481	10.9832	0.0166	10.9998		2,748.052 6	2,748.052 6	0.0659		2,749.699 8
Total	1.3295	8.5573	10.9873	0.0861	160.3665	0.0385	160.4050	16.7860	0.0362	16.8222		8,879.723 7	8,879.723 7	0.1367		8,883.140 4

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Crow Creek Solar - Stanislaus County, Summer

3.8 Testing/Site Clean up - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4486	5.5177	3.0780	8.6900e- 003		0.1800	0.1800		0.1656	0.1656		841.3414	841.3414	0.2721		848.1441
Total	0.4486	5.5177	3.0780	8.6900e- 003	0.5303	0.1800	0.7103	0.0573	0.1656	0.2229		841.3414	841.3414	0.2721		848.1441

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	1.9800e- 003	0.0470	0.0129	3.4000e- 004	0.1598	1.3000e- 004	0.1600	0.0175	1.3000e- 004	0.0176		35.5980	35.5980	5.3000e- 004		35.6113
Vendor	0.2225	5.3717	1.3813	0.0397	60.8233	0.0139	60.8372	6.2995	0.0133	6.3128		4,156.621 9	4,156.621 9	0.0477		4,157.813 8
Worker	0.3951	0.2485	3.5312	0.0109	67.3357	7.1100e- 003	67.3428	6.9034	6.5400e- 003	6.9099		1,084.757 6	1,084.757 6	0.0260		1,085.407 8
Total	0.6196	5.6672	4.9254	0.0509	128.3188	0.0211	128.3399	13.2204	0.0199	13.2403		5,276.977 5	5,276.977 5	0.0742		5,278.832 9

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Crow Creek Solar - Stanislaus County, Summer

3.8 Testing/Site Clean up - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.4486	5.5177	3.0780	8.6900e- 003		0.1800	0.1800		0.1656	0.1656	0.0000	841.3414	841.3414	0.2721	i i	848.1441
Total	0.4486	5.5177	3.0780	8.6900e- 003	0.2386	0.1800	0.4186	0.0258	0.1656	0.1914	0.0000	841.3414	841.3414	0.2721		848.1441

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	day		
Hauling	1.9800e- 003	0.0470	0.0129	3.4000e- 004	0.1013	1.3000e- 004	0.1014	0.0116	1.3000e- 004	0.0118		35.5980	35.5980	5.3000e- 004		35.6113
Vendor	0.2225	5.3717	1.3813	0.0397	37.7122	0.0139	37.7260	3.9884	0.0133	4.0017		4,156.621 9	4,156.621 9	0.0477		4,157.813 8
Worker	0.3951	0.2485	3.5312	0.0109	41.6566	7.1100e- 003	41.6637	4.3355	6.5400e- 003	4.3420		1,084.757 6	1,084.757 6	0.0260		1,085.407 8
Total	0.6196	5.6672	4.9254	0.0509	79.4701	0.0211	79.4912	8.3355	0.0199	8.3555		5,276.977 5	5,276.977 5	0.0742		5,278.832 9

4.0 Operational Detail - Mobile

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Crow Creek Solar - Stanislaus County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Mitigated	0.2333	1.6984	2.7123	0.0131	0.8984	8.2300e- 003	0.9067	0.2410	7.7100e- 003	0.2487		1,331.256 8	1,331.256 8	0.0549		1,332.630 2
Unmitigated	0.2333	1.6984	2.7123	0.0131	0.8984	8.2300e- 003	0.9067	0.2410	7.7100e- 003	0.2487		1,331.256 8	1,331.256 8	0.0549		1,332.630 2

4.2 Trip Summary Information

	Avei	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	108.40	108.40	108.40	418,800	418,800
Total	108.40	108.40	108.40	418,800	418,800

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W H-S or C-C H-O or C-			H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.529564	0.031735	0.175601	0.112621	0.019191	0.004761	0.027424	0.090197	0.001836	0.001047	0.004420	0.000822	0.000781

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Unmitigated	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

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Crow Creek Solar - Stanislaus County, Summer

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Unrefrigerated Warehouse-No Rail	671.189	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Total		7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Unrefrigerated Warehouse-No Rail	0.671189	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Total		7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

6.0 Area Detail

6.1 Mitigation Measures Area

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Crow Creek Solar - Stanislaus County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Unmitigated	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
04!	3.8100e- 003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2900		1 1 1			0.0000	0.0000	1 	0.0000	0.0000			0.0000		 	0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000	1 	0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005	 	3.1600e- 003
Total	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

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Crow Creek Solar - Stanislaus County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	lay		
0 41 1	3.8100e- 003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
	0.2900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Total	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Equipment Type	T TOTAL OF	riouro/Bay	Baye, real	1101001 01101	Loud I doloi	1 401 1 1 1 1 1

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Crow Creek Solar - Stanislaus County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
<u>Boilers</u>						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	
Harris Da Cora I E continuo cont						

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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Crow Creek Solar - Stanislaus County, Winter

Crow Creek Solar Stanislaus County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.55	1000sqft	239.00	13,550.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2024
Utility Company	Pacific Gas & Electric C	Company			
CO2 Intensity (lb/MWhr)	210	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Crow Creek Solar - Stanislaus County, Winter

Project Characteristics - CO2 Intensity Factor per PG&E 2018 Sustainabiliy Report http://www.pgecorp.com/corp_responsibility/reports/2019/assets/PGE_CRSR_2019.pdf

Land Use - Crow Creek Phase II 239 acre project site.

Construction Phase - Client provided information

Off-road Equipment - Client provided information

Trips and VMT - Client provided information

On-road Fugitive Dust - Based on project site.

Grading - Total acres grades set equal to acres of solar project site, 239 acres.

Vehicle Trips - Client provided information

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Road Dust - Default values

Area Coating - Default values

Landscape Equipment - Default values

Energy Use - Default values

Water And Wastewater - Client provided information for outdoor water use.

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Fleet Mix -

Crow Creek Solar - Stanislaus County, Winter

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	6775	500
tblAreaCoating	Area_Nonresidential_Interior	20325	1500
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	4,650.00	87.00
tblConstructionPhase	NumDays	4,650.00	87.00
tblConstructionPhase	NumDays	465.00	54.00
tblConstructionPhase	NumDays	180.00	41.00
tblConstructionPhase	NumDays	180.00	78.00
tblGrading	AcresOfGrading	41.00	239.00
tblLandUse	LotAcreage	0.31	239.00
tblOffRoadEquipment	HorsePower	124.00	50.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	HorsePower	172.00	440.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00

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tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	210
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	12.74	0.94
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripLength	20.00	100.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00

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tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripLength	6.60	75.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	2.00	26.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripLength	16.80	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	26.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblTripsAndVMT	WorkerTripNumber	6.00	16.00
tblTripsAndVMT	WorkerTripNumber	6.00	76.00

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tblTripsAndVMT	WorkerTripNumber	5.00	30.00
tblVehicleTrips	ST_TR	1.68	8.00
tblVehicleTrips	SU_TR	1.68	8.00
tblVehicleTrips	WD_TR	1.68	8.00
tblWater	IndoorWaterUseRate	3,133,437.50	231,250.00
tblWater	OutdoorWaterUseRate	0.00	6,285,770.00

2.0 Emissions Summary

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Crow Creek Solar - Stanislaus County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2023	10.9405	105.4121	103.5517	0.3432	584.3166	3.5979	587.9144	62.8394	3.3117	66.1511	0.0000	34,388.97 38	34,388.97 38	5.3970	0.0000	34,523.89 87
Maximum	10.9405	105.4121	103.5517	0.3432	584.3166	3.5979	587.9144	62.8394	3.3117	66.1511	0.0000	34,388.97 38	34,388.97 38	5.3970	0.0000	34,523.89 87

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2023	10.9405	105.4121	103.5517	0.3432	359.7066	3.5979	363.3045	38.8619	3.3117	42.1736	0.0000	34,388.97 37	34,388.97 37	5.3970	0.0000	34,523.89 87
Maximum	10.9405	105.4121	103.5517	0.3432	359.7066	3.5979	363.3045	38.8619	3.3117	42.1736	0.0000	34,388.97 37	34,388.97 37	5.3970	0.0000	34,523.89 87

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	38.44	0.00	38.20	38.16	0.00	36.25	0.00	0.00	0.00	0.00	0.00	0.00

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Crow Creek Solar - Stanislaus County, Winter

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Area	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Energy	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Mobile	0.1879	1.7510	2.4204	0.0121	0.8984	8.2800e- 003	0.9067	0.2410	7.7500e- 003	0.2487		1,230.567 9	1,230.567 9	0.0573		1,232.000 6
Total	0.4891	1.8168	2.4770	0.0124	0.8984	0.0133	0.9117	0.2410	0.0128	0.2537		1,309.534 3	1,309.534 3	0.0588	1.4500e- 003	1,311.436 4

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Area	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Energy	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003	1 	5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Mobile	0.1879	1.7510	2.4204	0.0121	0.8984	8.2800e- 003	0.9067	0.2410	7.7500e- 003	0.2487		1,230.567 9	1,230.567 9	0.0573		1,232.000 6
Total	0.4891	1.8168	2.4770	0.0124	0.8984	0.0133	0.9117	0.2410	0.0128	0.2537		1,309.534 3	1,309.534 3	0.0588	1.4500e- 003	1,311.436 4

Crow Creek Solar - Stanislaus County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2023	6/26/2023	5	41	
2	Perimeter Fence Installation	Trenching	5/1/2023	6/12/2023	5	31	
3	Interconneciton Construction	Trenching	5/31/2023	9/13/2023	5	76	
4	Underground work (trenching)	Grading	6/15/2023	8/29/2023	5	54	
5	Energy Storage System	Building Construction	6/15/2023	10/13/2023	5	87	
6	System Installation	Building Construction	6/15/2023	10/13/2023	5	87	
7	Testing/Site Clean up	Site Preparation	9/13/2023	12/31/2023	5	78	

Acres of Grading (Site Preparation Phase): 239

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

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Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	200	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Interconneciton Construction	Aerial Lifts	1	8.00	63	0.31
Interconneciton Construction	Cranes	2	8.00	231	0.29
Interconneciton Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Underground work (trenching)	Excavators	2	8.00	158	0.38
Underground work (trenching)	Graders	0	8.00	187	0.41
Underground work (trenching)	Off-Highway Trucks	0	 	402	0.38
Underground work (trenching)	Other Construction Equipment	1	8.00	440	0.42
Underground work (trenching)	Rollers	1	8.00	80	0.38
Underground work (trenching)	Rough Terrain Forklifts	1	8.00	100	0.40
Underground work (trenching)	Rubber Tired Dozers	0	8.00	247	0.40
Underground work (trenching)	Scrapers	0	8.00	367	0.48
Underground work (trenching)	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	8.00	89	0.20
Energy Storage System	Generator Sets	0	8.00	84	0.74
Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Energy Storage System	Welders	0	8.00	46	0.45
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	8.00	89	0.20
System Installation	Generator Sets	0:	8.00	 84	0.74

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System Installation	Off-Highway Tractors	20	8.00	50	0.44
System Installation	Off-Highway Trucks	0		402	0.38
System Installation	Off-Highway Trucks	0	 !	402	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	8	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
System Installation	Welders	0	8.00	46	0.45
Testing/Site Clean up	Graders	1	8.00	187	0.41
Testing/Site Clean up	Off-Highway Trucks	0		402	0.38
Testing/Site Clean up	Skid Steer Loaders	1;	8.00	65	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	6	26.00	18.00	16.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Perimeter Fence	4	20.00	14.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Interconneciton	4	26.00	2.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Underground work	5	26.00	8.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Energy Storage	6	16.00	2.00	2.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
System Installation	33	76.00	26.00	32.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT
Testing/Site Clean up	2	30.00	18.00	8.00	50.00	75.00	100.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Site Preparation - 2023

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					12.2040	0.0000	12.2040	3.9777	0.0000	3.9777			0.0000			0.0000
Off-Road	1.9104	21.1891	12.4274	0.0301		0.8754	0.8754		0.8054	0.8054		2,918.502 9	2,918.502 9	0.9439		2,942.100 4
Total	1.9104	21.1891	12.4274	0.0301	12.2040	0.8754	13.0795	3.9777	0.8054	4.7831		2,918.502 9	2,918.502 9	0.9439		2,942.100 4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	7.5900e- 003	0.1881	0.0500	1.2800e- 003	0.6081	5.1000e- 004	0.6086	0.0666	4.9000e- 004	0.0671		134.8012	134.8012	2.1800e- 003		134.8558
Vendor	0.2255	5.6564	1.4079	0.0395	60.8233	0.0139	60.8372	6.2995	0.0133	6.3129		4,141.182 9	4,141.182 9	0.0512		4,142.463 7
Worker	0.3746	0.2565	2.3889	8.3100e- 003	58.3576	6.1600e- 003	58.3637	5.9829	5.6700e- 003	5.9886		828.3197	828.3197	0.0189		828.7923
Total	0.6077	6.1010	3.8468	0.0491	119.7890	0.0206	119.8095	12.3490	0.0195	12.3685		5,104.303 8	5,104.303 8	0.0723		5,106.111 7

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3.2 Site Preparation - 2023

<u>Mitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					5.4918	0.0000	5.4918	1.7900	0.0000	1.7900			0.0000			0.0000
Off-Road	1.9104	21.1891	12.4274	0.0301		0.8754	0.8754		0.8054	0.8054	0.0000	2,918.502 9	2,918.502 9	0.9439	,	2,942.100 4
Total	1.9104	21.1891	12.4274	0.0301	5.4918	0.8754	6.3672	1.7900	0.8054	2.5954	0.0000	2,918.502 9	2,918.502 9	0.9439		2,942.100 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	7.5900e- 003	0.1881	0.0500	1.2800e- 003	0.3854	5.1000e- 004	0.3859	0.0443	4.9000e- 004	0.0448		134.8012	134.8012	2.1800e- 003		134.8558
Vendor	0.2255	5.6564	1.4079	0.0395	37.7122	0.0139	37.7261	3.9884	0.0133	4.0017		4,141.182 9	4,141.182 9	0.0512		4,142.463 7
Worker	0.3746	0.2565	2.3889	8.3100e- 003	36.1024	6.1600e- 003	36.1086	3.7574	5.6700e- 003	3.7631		828.3197	828.3197	0.0189		828.7923
Total	0.6077	6.1010	3.8468	0.0491	74.2000	0.0206	74.2205	7.7901	0.0195	7.8096		5,104.303 8	5,104.303 8	0.0723		5,106.111 7

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3.3 Perimeter Fence Installation - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221		935.2621	935.2621	0.3025		942.8242
Total	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221		935.2621	935.2621	0.3025		942.8242

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	1.2500e- 003	0.0311	8.2700e- 003	2.1000e- 004	0.1005	8.0000e- 005	0.1006	0.0110	8.0000e- 005	0.0111		22.2857	22.2857	3.6000e- 004		22.2947
Vendor	0.1754	4.3994	1.0950	0.0307	47.3070	0.0108	47.3178	4.8996	0.0104	4.9100		3,220.920 0	3,220.920 0	0.0399		3,221.916 2
Worker	0.2882	0.1973	1.8376	6.3900e- 003	44.8904	4.7400e- 003	44.8952	4.6023	4.3600e- 003	4.6066		637.1690	637.1690	0.0145		637.5325
Total	0.4648	4.6278	2.9409	0.0373	92.2980	0.0156	92.3136	9.5129	0.0148	9.5277		3,880.374 7	3,880.374 7	0.0548		3,881.743 4

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3.3 Perimeter Fence Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221	0.0000	935.2621	935.2621	0.3025		942.8242
Total	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221	0.0000	935.2621	935.2621	0.3025		942.8242

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	1.2500e- 003	0.0311	8.2700e- 003	2.1000e- 004	0.0637	8.0000e- 005	0.0638	7.3200e- 003	8.0000e- 005	7.4000e- 003		22.2857	22.2857	3.6000e- 004		22.2947
Vendor	0.1754	4.3994	1.0950	0.0307	29.3317	0.0108	29.3425	3.1021	0.0104	3.1125		3,220.920 0	3,220.920 0	0.0399		3,221.916 2
Worker	0.2882	0.1973	1.8376	6.3900e- 003	27.7711	4.7400e- 003	27.7758	2.8903	4.3600e- 003	2.8947		637.1690	637.1690	0.0145		637.5325
Total	0.4648	4.6278	2.9409	0.0373	57.1665	0.0156	57.1821	5.9997	0.0148	6.0145		3,880.374 7	3,880.374 7	0.0548		3,881.743 4

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3.4 Interconneciton Construction - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	lay		
Off-Road	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714		1,581.834 8	1,581.834 8	0.5116		1,594.624 8
Total	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714		1,581.834 8	1,581.834 8	0.5116		1,594.624 8

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		
Hauling	5.1000e- 004	0.0127	3.3700e- 003	9.0000e- 005	0.0410	3.0000e- 005	0.0410	4.4900e- 003	3.0000e- 005	4.5200e- 003		9.0902	9.0902	1.5000e- 004	1	9.0939
Vendor	0.0251	0.6285	0.1564	4.3900e- 003	6.7582	1.5500e- 003	6.7597	0.7000	1.4800e- 003	0.7014		460.1314	460.1314	5.6900e- 003		460.2738
Worker	0.3746	0.2565	2.3889	8.3100e- 003	58.3576	6.1600e- 003	58.3637	5.9829	5.6700e- 003	5.9886		828.3197	828.3197	0.0189		828.7923
Total	0.4002	0.8977	2.5487	0.0128	65.1567	7.7400e- 003	65.1645	6.6874	7.1800e- 003	6.6945		1,297.541 3	1,297.541 3	0.0247		1,298.159 9

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3.4 Interconneciton Construction - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714	0.0000	1,581.834 8	1,581.834 8	0.5116		1,594.624 8
Total	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714	0.0000	1,581.834 8	1,581.834 8	0.5116		1,594.624 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	5.1000e- 004	0.0127	3.3700e- 003	9.0000e- 005	0.0260	3.0000e- 005	0.0260	2.9900e- 003	3.0000e- 005	3.0200e- 003		9.0902	9.0902	1.5000e- 004		9.0939
Vendor	0.0251	0.6285	0.1564	4.3900e- 003	4.1902	1.5500e- 003	4.1918	0.4432	1.4800e- 003	0.4446		460.1314	460.1314	5.6900e- 003		460.2738
Worker	0.3746	0.2565	2.3889	8.3100e- 003	36.1024	6.1600e- 003	36.1086	3.7574	5.6700e- 003	3.7631		828.3197	828.3197	0.0189		828.7923
Total	0.4002	0.8977	2.5487	0.0128	40.3186	7.7400e- 003	40.3264	4.2036	7.1800e- 003	4.2107		1,297.541 3	1,297.541 3	0.0247		1,298.159 9

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Crow Creek Solar - Stanislaus County, Winter

3.5 Underground work (trenching) - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2248	12.0135	15.2049	0.0324		0.5094	0.5094		0.4686	0.4686		3,140.157 9	3,140.157 9	1.0156		3,165.547 7
Total	1.2248	12.0135	15.2049	0.0324	0.0000	0.5094	0.5094	0.0000	0.4686	0.4686		3,140.157 9	3,140.157 9	1.0156		3,165.547 7

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	7.2000e- 004	0.0179	4.7500e- 003	1.2000e- 004	0.0577	5.0000e- 005	0.0578	6.3200e- 003	5.0000e- 005	6.3600e- 003		12.7936	12.7936	2.1000e- 004		12.7988
Vendor	0.1002	2.5139	0.6257	0.0176	27.0326	6.1800e- 003	27.0388	2.7998	5.9100e- 003	2.8057		1,840.525 7	1,840.525 7	0.0228		1,841.095 0
Worker	0.3746	0.2565	2.3889	8.3100e- 003	58.3576	6.1600e- 003	58.3637	5.9829	5.6700e- 003	5.9886		828.3197	828.3197	0.0189		828.7923
Total	0.4756	2.7883	3.0194	0.0260	85.4479	0.0124	85.4602	8.7890	0.0116	8.8007		2,681.639 1	2,681.639 1	0.0419	·	2,682.686 0

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Crow Creek Solar - Stanislaus County, Winter

3.5 Underground work (trenching) - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2248	12.0135	15.2049	0.0324	 	0.5094	0.5094		0.4686	0.4686	0.0000	3,140.157 9	3,140.157 9	1.0156	,	3,165.547 7
Total	1.2248	12.0135	15.2049	0.0324	0.0000	0.5094	0.5094	0.0000	0.4686	0.4686	0.0000	3,140.157 9	3,140.157 9	1.0156		3,165.547 7

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	7.2000e- 004	0.0179	4.7500e- 003	1.2000e- 004	0.0366	5.0000e- 005	0.0366	4.2000e- 003	5.0000e- 005	4.2500e- 003		12.7936	12.7936	2.1000e- 004		12.7988
Vendor	0.1002	2.5139	0.6257	0.0176	16.7610	6.1800e- 003	16.7672	1.7726	5.9100e- 003	1.7786		1,840.525 7	1,840.525 7	0.0228		1,841.095 0
Worker	0.3746	0.2565	2.3889	8.3100e- 003	36.1024	6.1600e- 003	36.1086	3.7574	5.6700e- 003	3.7631		828.3197	828.3197	0.0189		828.7923
Total	0.4756	2.7883	3.0194	0.0260	52.8999	0.0124	52.9123	5.5342	0.0116	5.5459		2,681.639 1	2,681.639 1	0.0419		2,682.686

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3.6 Energy Storage System - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507		2,534.888 2	2,534.888 2	0.8198		2,555.384 1
Total	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507		2,534.888 2	2,534.888	0.8198		2,555.384 1

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	4.5000e- 004	0.0111	2.9500e- 003	8.0000e- 005	0.0358	3.0000e- 005	0.0359	3.9200e- 003	3.0000e- 005	3.9500e- 003		7.9409	7.9409	1.3000e- 004		7.9441
Vendor	0.0251	0.6285	0.1564	4.3900e- 003	6.7582	1.5500e- 003	6.7597	0.7000	1.4800e- 003	0.7014		460.1314	460.1314	5.6900e- 003		460.2738
Worker	0.2305	0.1579	1.4701	5.1100e- 003	35.9124	3.7900e- 003	35.9161	3.6818	3.4900e- 003	3.6853		509.7352	509.7352	0.0116		510.0260
Total	0.2560	0.7974	1.6295	9.5800e- 003	42.7063	5.3700e- 003	42.7117	4.3857	5.0000e- 003	4.3907		977.8075	977.8075	0.0175		978.2438

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Crow Creek Solar - Stanislaus County, Winter

3.6 Energy Storage System - 2023 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507	0.0000	2,534.888 2	2,534.888 2	0.8198		2,555.384 1
Total	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507	0.0000	2,534.888 2	2,534.888	0.8198		2,555.384 1

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	4.5000e- 004	0.0111	2.9500e- 003	8.0000e- 005	0.0227	3.0000e- 005	0.0227	2.6100e- 003	3.0000e- 005	2.6400e- 003		7.9409	7.9409	1.3000e- 004		7.9441
Vendor	0.0251	0.6285	0.1564	4.3900e- 003	4.1902	1.5500e- 003	4.1918	0.4432	1.4800e- 003	0.4446		460.1314	460.1314	5.6900e- 003		460.2738
Worker	0.2305	0.1579	1.4701	5.1100e- 003	22.2169	3.7900e- 003	22.2207	2.3123	3.4900e- 003	2.3157		509.7352	509.7352	0.0116		510.0260
Total	0.2560	0.7974	1.6295	9.5800e- 003	26.4298	5.3700e- 003	26.4352	2.7580	5.0000e- 003	2.7630		977.8075	977.8075	0.0175		978.2438

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Crow Creek Solar - Stanislaus County, Winter

3.7 System Installation - 2023
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360		5,622.293 5	5,622.293 5	1.8184		5,667.752 6
Total	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360		5,622.293 5	5,622.293 5	1.8184		5,667.752 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	7.1500e- 003	0.1773	0.0471	1.2100e- 003	0.5732	4.8000e- 004	0.5736	0.0627	4.6000e- 004	0.0632		127.0540	127.0540	2.0600e- 003		127.1054
Vendor	0.3258	8.1703	2.0336	0.0571	87.8559	0.0201	87.8760	9.0993	0.0192	9.1186		5,981.708 6	5,981.708 6	0.0740		5,983.558 7
Worker	1.0950	0.7498	6.9829	0.0243	170.5836	0.0180	170.6017	17.4885	0.0166	17.5051		2,421.242 1	2,421.242 1	0.0553		2,422.623 5
Total	1.4279	9.0974	9.0636	0.0826	259.0127	0.0386	259.0513	26.6506	0.0363	26.6869		8,530.004 8	8,530.004 8	0.1313		8,533.287 6

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Crow Creek Solar - Stanislaus County, Winter

3.7 System Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360	0.0000	5,622.293 5	5,622.293 5	1.8184		5,667.752 6
Total	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360	0.0000	5,622.293 5	5,622.293 5	1.8184		5,667.752 6

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	7.1500e- 003	0.1773	0.0471	1.2100e- 003	0.3633	4.8000e- 004	0.3637	0.0418	4.6000e- 004	0.0422		127.0540	127.0540	2.0600e- 003		127.1054
Vendor	0.3258	8.1703	2.0336	0.0571	54.4731	0.0201	54.4932	5.7611	0.0192	5.7803		5,981.708 6	5,981.708 6	0.0740		5,983.558 7
Worker	1.0950	0.7498	6.9829	0.0243	105.5301	0.0180	105.5481	10.9832	0.0166	10.9998		2,421.242 1	2,421.242 1	0.0553		2,422.623 5
Total	1.4279	9.0974	9.0636	0.0826	160.3665	0.0386	160.4050	16.7860	0.0363	16.8223		8,530.004 8	8,530.004 8	0.1313		8,533.287 6

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3.8 Testing/Site Clean up - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust			 		0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4486	5.5177	3.0780	8.6900e- 003		0.1800	0.1800		0.1656	0.1656		841.3414	841.3414	0.2721		848.1441
Total	0.4486	5.5177	3.0780	8.6900e- 003	0.5303	0.1800	0.7103	0.0573	0.1656	0.2229		841.3414	841.3414	0.2721		848.1441

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	day		
Hauling	1.9900e- 003	0.0494	0.0132	3.4000e- 004	0.1598	1.3000e- 004	0.1600	0.0175	1.3000e- 004	0.0176		35.4285	35.4285	5.7000e- 004		35.4429
Vendor	0.2255	5.6564	1.4079	0.0395	60.8233	0.0139	60.8372	6.2995	0.0133	6.3129		4,141.182 9	4,141.182 9	0.0512		4,142.463 7
Worker	0.4322	0.2960	2.7564	9.5800e- 003	67.3357	7.1100e- 003	67.3428	6.9034	6.5400e- 003	6.9099		955.7535	955.7535	0.0218		956.2988
Total	0.6598	6.0018	4.1774	0.0494	128.3188	0.0212	128.3399	13.2204	0.0200	13.2404		5,132.364 9	5,132.364 9	0.0736		5,134.205 3

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Crow Creek Solar - Stanislaus County, Winter

3.8 Testing/Site Clean up - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
l aginvo Buot					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.4486	5.5177	3.0780	8.6900e- 003		0.1800	0.1800		0.1656	0.1656	0.0000	841.3414	841.3414	0.2721		848.1441
Total	0.4486	5.5177	3.0780	8.6900e- 003	0.2386	0.1800	0.4186	0.0258	0.1656	0.1914	0.0000	841.3414	841.3414	0.2721		848.1441

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	1.9900e- 003	0.0494	0.0132	3.4000e- 004	0.1013	1.3000e- 004	0.1014	0.0116	1.3000e- 004	0.0118		35.4285	35.4285	5.7000e- 004		35.4429
Vendor	0.2255	5.6564	1.4079	0.0395	37.7122	0.0139	37.7261	3.9884	0.0133	4.0017		4,141.182 9	4,141.182 9	0.0512		4,142.463 7
Worker	0.4322	0.2960	2.7564	9.5800e- 003	41.6566	7.1100e- 003	41.6637	4.3355	6.5400e- 003	4.3420		955.7535	955.7535	0.0218		956.2988
Total	0.6598	6.0018	4.1774	0.0494	79.4701	0.0212	79.4912	8.3355	0.0200	8.3555		5,132.364 9	5,132.364 9	0.0736		5,134.205 3

4.0 Operational Detail - Mobile

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Crow Creek Solar - Stanislaus County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	0.1879	1.7510	2.4204	0.0121	0.8984	8.2800e- 003	0.9067	0.2410	7.7500e- 003	0.2487		1,230.567 9	1,230.567 9	0.0573		1,232.000 6
Unmitigated	0.1879	1.7510	2.4204	0.0121	0.8984	8.2800e- 003	0.9067	0.2410	7.7500e- 003	0.2487		1,230.567 9	1,230.567 9	0.0573		1,232.000 6

4.2 Trip Summary Information

	Avei	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	108.40	108.40	108.40	418,800	418,800
Total	108.40	108.40	108.40	418,800	418,800

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.529564	0.031735	0.175601	0.112621	0.019191	0.004761	0.027424	0.090197	0.001836	0.001047	0.004420	0.000822	0.000781

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Crow Creek Solar - Stanislaus County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Unmitigated	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

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Crow Creek Solar - Stanislaus County, Winter

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Unrefrigerated Warehouse-No Rail	671.189	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Total		7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Unrefrigerated Warehouse-No Rail	0.671189	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Total		7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Mitigated	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Unmitigated	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000	i i	0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

6.2 Area by SubCategory Unmitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
0	3.8100e- 003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2900		1 1 1			0.0000	0.0000	1 	0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000	1 	0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Total	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	lay		
0 41 1	3.8100e- 003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
	0.2900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Total	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Crow Creek Solar - Stanislaus County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
<u>Boilers</u>						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	

User Defined Equipment

Equipment Type	Number
1.1	

11.0 Vegetation



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Crow Creek Solar - Stanislaus County, Summer

Crow Creek Solar Stanislaus County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.55	1000sqft	239.00	13,550.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2024
Utility Company	Pacific Gas & Electric Co	mpany			
CO2 Intensity (lb/MWhr)	210	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Crow Creek Solar - Stanislaus County, Summer

Project Characteristics - CO2 Intensity Factor per PG&E 2018 Sustainabiliy Report http://www.pgecorp.com/corp_responsibility/reports/2019/assets/PGE_CRSR_2019.pdf

Land Use - Crow Creek Phase II 239 acre project site.

Construction Phase - Client provided information

Off-road Equipment - Client provided information

Trips and VMT - Client provided information. LST analysis trip length set equal to 1,000 ft to represent onsite vehichle operation only.

On-road Fugitive Dust - Based on project site.

Grading - Total acres grades set equal to acres of solar project site, 239 acres.

Vehicle Trips - Client provided information

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Road Dust - Default values

Area Coating - Default values

Landscape Equipment - Default values

Energy Use - Default values

Water And Wastewater - Client provided information for outdoor water use.

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Fleet Mix -

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Crow Creek Solar - Stanislaus County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	6775	500
tblAreaCoating	Area_Nonresidential_Interior	20325	1500
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	4,650.00	87.00
tblConstructionPhase	NumDays	4,650.00	87.00
tblConstructionPhase	NumDays	465.00	54.00
tblConstructionPhase	NumDays	180.00	41.00
tblConstructionPhase	NumDays	180.00	78.00
tblGrading	AcresOfGrading	41.00	239.00
tblLandUse	LotAcreage	0.31	239.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	HorsePower	172.00	440.00
tblOffRoadEquipment	HorsePower	124.00	50.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00

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tblOnRoadDust VendorPercentPave 100.00 tblOnRoadDust VendorPercentPave 100.00 tblOnRoadDust VendorPercentPave 100.00 tblOnRoadDust VendorPercentPave 100.00 tblOnRoadDust WorkerPercentPave 100.00 tblOnRoadDust WorkerPercentPave 100.00 tblOnRoadDust WorkerPercentPave 100.00 tblOnRoadDust WorkerPercentPave 100.00	97.00 97.00 97.00 97.00 97.00
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tblOnRoadDust WorkerPercentPave 100.00 tblOnRoadDust WorkerPercentPave 100.00	97.00
tblOnRoadDust WorkerPercentPave 100.00	
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tblOnRoadDust WorkerPercentPave 100.00	97.00
tblOnRoadDust WorkerPercentPave 100.00	97.00
tblOnRoadDust WorkerPercentPave 100.00	97.00
tblProjectCharacteristics CO2IntensityFactor 641.35	210
tblProjectCharacteristics UrbanizationLevel Urban Urban	Rural
tblSolidWaste SolidWasteGenerationRate 12.74	0.94
tblTripsAndVMT HaulingTripLength 20.00	0.19
tblTripsAndVMT HaulingTripNumber 0.00	16.00
tblTripsAndVMT HaulingTripNumber 0.00	2.00
tblTripsAndVMT HaulingTripNumber 0.00	32.00

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tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	2.00	26.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	26.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblTripsAndVMT	WorkerTripNumber	6.00	16.00
tblTripsAndVMT	WorkerTripNumber	6.00	76.00
		•	

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tblTripsAndVMT	WorkerTripNumber	5.00	30.00
tblVehicleTrips	ST_TR	1.68	8.00
tblVehicleTrips	SU_TR	1.68	8.00
tblVehicleTrips	WD_TR	1.68	8.00
tblWater	IndoorWaterUseRate	3,133,437.50	231,250.00
tblWater	OutdoorWaterUseRate	0.00	6,285,770.00

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day									lb/day						
2023	8.0877	89.1720	84.4939	0.1678	14.1390	3.5149	17.6540	4.1776	3.2338	7.4113	0.0000	16,279.21 42	16,279.21 42	5.1962	0.0000	16,409.117 6
Maximum	8.0877	89.1720	84.4939	0.1678	14.1390	3.5149	17.6540	4.1776	3.2338	7.4113	0.0000	16,279.21 42	16,279.21 42	5.1962	0.0000	16,409.11 76

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day										lb/day						
2023	8.0877	89.1720	84.4939	0.1678	6.6908	3.5149	10.2057	1.9162	3.2338	5.1500	0.0000	16,279.21 42	16,279.21 42	5.1962	0.0000	16,409.117 6	
Maximum	8.0877	89.1720	84.4939	0.1678	6.6908	3.5149	10.2057	1.9162	3.2338	5.1500	0.0000	16,279.21 42	16,279.21 42	5.1962	0.0000	16,409.11 76	

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.68	0.00	42.19	54.13	0.00	30.51	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	lb/day										lb/day							
Area	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003		
Energy	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327		
Mobile	0.2333	1.6984	2.7123	0.0131	0.8984	8.2300e- 003	0.9067	0.2410	7.7100e- 003	0.2487		1,331.256 8	1,331.256 8	0.0549		1,332.630 2		
Total	0.5345	1.7642	2.7689	0.0134	0.8984	0.0132	0.9117	0.2410	0.0127	0.2537		1,410.223 2	1,410.223 2	0.0565	1.4500e- 003	1,412.066 0		

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003	
Energy	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327	
Mobile	0.2333	1.6984	2.7123	0.0131	0.8984	8.2300e- 003	0.9067	0.2410	7.7100e- 003	0.2487		1,331.256 8	1,331.256 8	0.0549		1,332.630 2	
Total	0.5345	1.7642	2.7689	0.0134	0.8984	0.0132	0.9117	0.2410	0.0127	0.2537		1,410.223 2	1,410.223 2	0.0565	1.4500e- 003	1,412.066 0	

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Crow Creek Solar - Stanislaus County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2023	6/26/2023	5	41	
2	Perimeter Fence Installation	Trenching	5/1/2023	6/12/2023	5	31	
3	Interconneciton Construction	Trenching	5/31/2023	9/13/2023	5	76	
4	Underground work (trenching)	Grading	6/15/2023	8/29/2023	5	54	
5	Energy Storage System	Building Construction	6/15/2023	10/13/2023	5	87	
6	System Installation	Building Construction	6/15/2023	10/13/2023	5	87	
7	Testing/Site Clean up	Site Preparation	9/13/2023	12/31/2023	5	78	

Acres of Grading (Site Preparation Phase): 239

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

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Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	200	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Interconneciton Construction	Aerial Lifts	1	8.00	63	0.31
Interconneciton Construction	Cranes	2	8.00	231	0.29
Interconneciton Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Underground work (trenching)	Excavators	2	8.00	158	0.38
Underground work (trenching)	Graders	0	8.00	187	0.41
Underground work (trenching)	Off-Highway Trucks	0	 	402	0.38
Underground work (trenching)	Other Construction Equipment	1	8.00	440	0.42
Underground work (trenching)	Rollers	1	8.00	80	0.38
Underground work (trenching)	Rough Terrain Forklifts	1	8.00	100	0.40
Underground work (trenching)	Rubber Tired Dozers	0	8.00	247	0.40
Underground work (trenching)	Scrapers	0	8.00	367	0.48
Underground work (trenching)	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts	0	8.00	89	0.20
Energy Storage System	Generator Sets	0	8.00	84	0.74
Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Energy Storage System	Welders	0	8.00	46	0.45
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	8.00	89	0.20
System Installation	Generator Sets	0:	8.00	84	0.74

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System Installation	Off-Highway Tractors	20	8.00	50	0.44
System Installation	Off-Highway Trucks	0		402	0.38
System Installation	Off-Highway Trucks	0		402	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	 	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
System Installation	Welders	0	8.00	46	0.45
Testing/Site Clean up	Graders	 1	8.00	187	0.41
Testing/Site Clean up	Off-Highway Trucks	0		402	0.38
Testing/Site Clean up	Skid Steer Loaders	+1	8.00	65	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	6	26.00	18.00	16.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Perimeter Fence	4	20.00	14.00	2.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Interconneciton	4	26.00	2.00	2.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Underground work	5	26.00	8.00	2.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Energy Storage	6	16.00	2.00	2.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
System Installation	33	76.00	26.00	32.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Testing/Site Clean up	2	30.00	18.00	8.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Site Preparation - 2023

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					12.2040	0.0000	12.2040	3.9777	0.0000	3.9777			0.0000			0.0000
Off-Road	1.9104	21.1891	12.4274	0.0301		0.8754	0.8754		0.8054	0.8054		2,918.502 9	2,918.502 9	0.9439	,	2,942.100 4
Total	1.9104	21.1891	12.4274	0.0301	12.2040	0.8754	13.0795	3.9777	0.8054	4.7831		2,918.502 9	2,918.502 9	0.9439		2,942.100 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day					lb/d	day				
Hauling	4.3000e- 004	0.0319	2.0000e- 003	5.0000e- 005	1.1600e- 003	1.0000e- 005	1.1700e- 003	1.3000e- 004	1.0000e- 005	1.3000e- 004		5.2094	5.2094	1.0700e- 003		5.2361
Vendor	0.0151	1.0681	0.1119	1.2600e- 003	0.1546	1.6000e- 004	0.1547	0.0161	1.6000e- 004	0.0163		131.8768	131.8768	0.0260		132.5263
Worker	0.0408	7.6300e- 003	0.1067	9.0000e- 005	0.2220	1.9000e- 004	0.2222	0.0228	1.7000e- 004	0.0230		9.1737	9.1737	5.7000e- 004		9.1879
Total	0.0563	1.1075	0.2206	1.4000e- 003	0.3777	3.6000e- 004	0.3781	0.0391	3.4000e- 004	0.0394		146.2599	146.2599	0.0276		146.9502

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3.2 Site Preparation - 2023

<u>Mitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					5.4918	0.0000	5.4918	1.7900	0.0000	1.7900			0.0000			0.0000
Off-Road	1.9104	21.1891	12.4274	0.0301	 	0.8754	0.8754	 	0.8054	0.8054	0.0000	2,918.502 9	2,918.502 9	0.9439		2,942.100 4
Total	1.9104	21.1891	12.4274	0.0301	5.4918	0.8754	6.3672	1.7900	0.8054	2.5954	0.0000	2,918.502 9	2,918.502 9	0.9439		2,942.100 4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	4.3000e- 004	0.0319	2.0000e- 003	5.0000e- 005	7.4000e- 004	1.0000e- 005	7.5000e- 004	9.0000e- 005	1.0000e- 005	9.0000e- 005		5.2094	5.2094	1.0700e- 003		5.2361
Vendor	0.0151	1.0681	0.1119	1.2600e- 003	0.0960	1.6000e- 004	0.0962	0.0103	1.6000e- 004	0.0105		131.8768	131.8768	0.0260		132.5263
Worker	0.0408	7.6300e- 003	0.1067	9.0000e- 005	0.1374	1.9000e- 004	0.1376	0.0144	1.7000e- 004	0.0146		9.1737	9.1737	5.7000e- 004		9.1879
Total	0.0563	1.1075	0.2206	1.4000e- 003	0.2342	3.6000e- 004	0.2346	0.0248	3.4000e- 004	0.0251		146.2599	146.2599	0.0276		146.9502

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3.3 Perimeter Fence Installation - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221		935.2621	935.2621	0.3025		942.8242
Total	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221		935.2621	935.2621	0.3025		942.8242

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	7.0000e- 005	5.2700e- 003	3.3000e- 004	1.0000e- 005	1.9000e- 004	0.0000	1.9000e- 004	2.0000e- 005	0.0000	2.0000e- 005		0.8612	0.8612	1.8000e- 004		0.8657
Vendor	0.0117	0.8307	0.0870	9.8000e- 004	0.1202	1.3000e- 004	0.1203	0.0126	1.2000e- 004	0.0127		102.5708	102.5708	0.0202		103.0760
Worker	0.0314	5.8700e- 003	0.0821	7.0000e- 005	0.1708	1.4000e- 004	0.1709	0.0176	1.3000e- 004	0.0177		7.0567	7.0567	4.4000e- 004		7.0676
Total	0.0432	0.8418	0.1694	1.0600e- 003	0.2912	2.7000e- 004	0.2915	0.0302	2.5000e- 004	0.0304		110.4887	110.4887	0.0208		111.0092

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3.3 Perimeter Fence Installation - 2023 <u>Mitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221	0.0000	935.2621	935.2621	0.3025		942.8242
Total	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221	0.0000	935.2621	935.2621	0.3025		942.8242

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	7.0000e- 005	5.2700e- 003	3.3000e- 004	1.0000e- 005	1.2000e- 004	0.0000	1.2000e- 004	1.0000e- 005	0.0000	2.0000e- 005		0.8612	0.8612	1.8000e- 004		0.8657
Vendor	0.0117	0.8307	0.0870	9.8000e- 004	0.0747	1.3000e- 004	0.0748	8.0000e- 003	1.2000e- 004	8.1200e- 003		102.5708	102.5708	0.0202		103.0760
Worker	0.0314	5.8700e- 003	0.0821	7.0000e- 005	0.1057	1.4000e- 004	0.1059	0.0111	1.3000e- 004	0.0112		7.0567	7.0567	4.4000e- 004		7.0676
Total	0.0432	0.8418	0.1694	1.0600e- 003	0.1805	2.7000e- 004	0.1808	0.0191	2.5000e- 004	0.0193		110.4887	110.4887	0.0208		111.0092

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3.4 Interconneciton Construction - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714		1,581.834 8	1,581.834 8	0.5116		1,594.624 8
Total	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714		1,581.834 8	1,581.834 8	0.5116		1,594.624 8

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	3.0000e- 005	2.1500e- 003	1.4000e- 004	0.0000	8.0000e- 005	0.0000	8.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.3513	0.3513	7.0000e- 005		0.3531
Vendor	1.6700e- 003	0.1187	0.0124	1.4000e- 004	0.0172	2.0000e- 005	0.0172	1.7900e- 003	2.0000e- 005	1.8100e- 003		14.6530	14.6530	2.8900e- 003		14.7251
Worker	0.0408	7.6300e- 003	0.1067	9.0000e- 005	0.2220	1.9000e- 004	0.2222	0.0228	1.7000e- 004	0.0230		9.1737	9.1737	5.7000e- 004		9.1879
Total	0.0425	0.1285	0.1193	2.3000e- 004	0.2393	2.1000e- 004	0.2395	0.0246	1.9000e- 004	0.0248		24.1779	24.1779	3.5300e- 003		24.2661

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3.4 Interconneciton Construction - 2023 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714	0.0000	1,581.834 8	1,581.834 8	0.5116		1,594.624 8
Total	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714	0.0000	1,581.834 8	1,581.834 8	0.5116		1,594.624 8

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	3.0000e- 005	2.1500e- 003	1.4000e- 004	0.0000	5.0000e- 005	0.0000	5.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.3513	0.3513	7.0000e- 005		0.3531
Vendor	1.6700e- 003	0.1187	0.0124	1.4000e- 004	0.0107	2.0000e- 005	0.0107	1.1400e- 003	2.0000e- 005	1.1600e- 003		14.6530	14.6530	2.8900e- 003		14.7251
Worker	0.0408	7.6300e- 003	0.1067	9.0000e- 005	0.1374	1.9000e- 004	0.1376	0.0144	1.7000e- 004	0.0146		9.1737	9.1737	5.7000e- 004		9.1879
Total	0.0425	0.1285	0.1193	2.3000e- 004	0.1482	2.1000e- 004	0.1484	0.0155	1.9000e- 004	0.0157		24.1779	24.1779	3.5300e- 003		24.2661

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3.5 Underground work (trenching) - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1	0.0000			0.0000
Off-Road	1.2248	12.0135	15.2049	0.0324		0.5094	0.5094	 	0.4686	0.4686		3,140.157 9	3,140.157 9	1.0156		3,165.547 7
Total	1.2248	12.0135	15.2049	0.0324	0.0000	0.5094	0.5094	0.0000	0.4686	0.4686		3,140.157 9	3,140.157 9	1.0156		3,165.547 7

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	4.0000e- 005	3.0200e- 003	1.9000e- 004	0.0000	1.1000e- 004	0.0000	1.1000e- 004	1.0000e- 005	0.0000	1.0000e- 005		0.4944	0.4944	1.0000e- 004		0.4969
Vendor	6.7000e- 003	0.4747	0.0497	5.6000e- 004	0.0687	7.0000e- 005	0.0688	7.1800e- 003	7.0000e- 005	7.2400e- 003		58.6119	58.6119	0.0116		58.9006
Worker	0.0408	7.6300e- 003	0.1067	9.0000e- 005	0.2220	1.9000e- 004	0.2222	0.0228	1.7000e- 004	0.0230		9.1737	9.1737	5.7000e- 004		9.1879
Total	0.0475	0.4853	0.1566	6.5000e- 004	0.2908	2.6000e- 004	0.2911	0.0300	2.4000e- 004	0.0303		68.2800	68.2800	0.0122		68.5853

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3.5 Underground work (trenching) - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2248	12.0135	15.2049	0.0324		0.5094	0.5094		0.4686	0.4686	0.0000	3,140.157 9	3,140.157 9	1.0156	,	3,165.547 7
Total	1.2248	12.0135	15.2049	0.0324	0.0000	0.5094	0.5094	0.0000	0.4686	0.4686	0.0000	3,140.157 9	3,140.157 9	1.0156		3,165.547 7

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	4.0000e- 005	3.0200e- 003	1.9000e- 004	0.0000	7.0000e- 005	0.0000	7.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.4944	0.4944	1.0000e- 004		0.4969
Vendor	6.7000e- 003	0.4747	0.0497	5.6000e- 004	0.0427	7.0000e- 005	0.0427	4.5700e- 003	7.0000e- 005	4.6400e- 003		58.6119	58.6119	0.0116		58.9006
Worker	0.0408	7.6300e- 003	0.1067	9.0000e- 005	0.1374	1.9000e- 004	0.1376	0.0144	1.7000e- 004	0.0146		9.1737	9.1737	5.7000e- 004		9.1879
Total	0.0475	0.4853	0.1566	6.5000e- 004	0.1802	2.6000e- 004	0.1804	0.0190	2.4000e- 004	0.0192		68.2800	68.2800	0.0122		68.5853

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3.6 Energy Storage System - 2023

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507		2,534.888 2	2,534.888 2	0.8198		2,555.384 1
Total	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507		2,534.888 2	2,534.888	0.8198		2,555.384 1

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	3.0000e- 005	1.8800e- 003	1.2000e- 004	0.0000	7.0000e- 005	0.0000	7.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.3069	0.3069	6.0000e- 005		0.3085
Vendor	1.6700e- 003	0.1187	0.0124	1.4000e- 004	0.0172	2.0000e- 005	0.0172	1.7900e- 003	2.0000e- 005	1.8100e- 003		14.6530	14.6530	2.8900e- 003		14.7251
Worker	0.0251	4.7000e- 003	0.0657	6.0000e- 005	0.1366	1.2000e- 004	0.1367	0.0141	1.1000e- 004	0.0142		5.6453	5.6453	3.5000e- 004		5.6541
Total	0.0268	0.1253	0.0782	2.0000e- 004	0.1539	1.4000e- 004	0.1540	0.0159	1.3000e- 004	0.0160		20.6052	20.6052	3.3000e- 003		20.6877

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Crow Creek Solar - Stanislaus County, Summer

3.6 Energy Storage System - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507	0.0000	2,534.888 2	2,534.888 2	0.8198		2,555.384 1
Total	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507	0.0000	2,534.888 2	2,534.888	0.8198		2,555.384 1

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	3.0000e- 005	1.8800e- 003	1.2000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.3069	0.3069	6.0000e- 005		0.3085
Vendor	1.6700e- 003	0.1187	0.0124	1.4000e- 004	0.0107	2.0000e- 005	0.0107	1.1400e- 003	2.0000e- 005	1.1600e- 003		14.6530	14.6530	2.8900e- 003		14.7251
Worker	0.0251	4.7000e- 003	0.0657	6.0000e- 005	0.0846	1.2000e- 004	0.0847	8.8500e- 003	1.1000e- 004	8.9600e- 003		5.6453	5.6453	3.5000e- 004		5.6541
Total	0.0268	0.1253	0.0782	2.0000e- 004	0.0953	1.4000e- 004	0.0954	0.0100	1.3000e- 004	0.0101		20.6052	20.6052	3.3000e- 003		20.6877

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3.7 System Installation - 2023
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360		5,622.293 5	5,622.293 5	1.8184		5,667.752 6
Total	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360		5,622.293 5	5,622.293 5	1.8184		5,667.752 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	4.1000e- 004	0.0300	1.8900e- 003	5.0000e- 005	1.1000e- 003	1.0000e- 005	1.1000e- 003	1.2000e- 004	1.0000e- 005	1.3000e- 004		4.9100	4.9100	1.0100e- 003		4.9352
Vendor	0.0218	1.5427	0.1617	1.8200e- 003	0.2233	2.4000e- 004	0.2235	0.0233	2.3000e- 004	0.0235		190.4887	190.4887	0.0375		191.4268
Worker	0.1193	0.0223	0.3119	2.7000e- 004	0.6490	5.5000e- 004	0.6495	0.0668	5.1000e- 004	0.0673		26.8153	26.8153	1.6600e- 003		26.8568
Total	0.1414	1.5951	0.4754	2.1400e- 003	0.8733	8.0000e- 004	0.8741	0.0902	7.5000e- 004	0.0909		222.2140	222.2140	0.0402		223.2188

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Crow Creek Solar - Stanislaus County, Summer

3.7 System Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360	0.0000	5,622.293 5	5,622.293 5	1.8184		5,667.752 6
Total	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360	0.0000	5,622.293 5	5,622.293 5	1.8184		5,667.752 6

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	4.1000e- 004	0.0300	1.8900e- 003	5.0000e- 005	7.0000e- 004	1.0000e- 005	7.0000e- 004	8.0000e- 005	1.0000e- 005	9.0000e- 005		4.9100	4.9100	1.0100e- 003		4.9352
Vendor	0.0218	1.5427	0.1617	1.8200e- 003	0.1387	2.4000e- 004	0.1389	0.0149	2.3000e- 004	0.0151		190.4887	190.4887	0.0375		191.4268
Worker	0.1193	0.0223	0.3119	2.7000e- 004	0.4018	5.5000e- 004	0.4023	0.0420	5.1000e- 004	0.0425		26.8153	26.8153	1.6600e- 003		26.8568
Total	0.1414	1.5951	0.4754	2.1400e- 003	0.5411	8.0000e- 004	0.5419	0.0570	7.5000e- 004	0.0577		222.2140	222.2140	0.0402		223.2188

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Crow Creek Solar - Stanislaus County, Summer

3.8 Testing/Site Clean up - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573		1	0.0000			0.0000
Off-Road	0.4486	5.5177	3.0780	8.6900e- 003		0.1800	0.1800		0.1656	0.1656		841.3414	841.3414	0.2721		848.1441
Total	0.4486	5.5177	3.0780	8.6900e- 003	0.5303	0.1800	0.7103	0.0573	0.1656	0.2229		841.3414	841.3414	0.2721		848.1441

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	1.1000e- 004	8.3700e- 003	5.3000e- 004	1.0000e- 005	3.1000e- 004	0.0000	3.1000e- 004	3.0000e- 005	0.0000	4.0000e- 005		1.3692	1.3692	2.8000e- 004		1.3762
Vendor	0.0151	1.0681	0.1119	1.2600e- 003	0.1546	1.6000e- 004	0.1547	0.0161	1.6000e- 004	0.0163		131.8768	131.8768	0.0260		132.5263
Worker	0.0471	8.8100e- 003	0.1231	1.1000e- 004	0.2562	2.2000e- 004	0.2564	0.0264	2.0000e- 004	0.0266		10.5850	10.5850	6.6000e- 004		10.6014
Total	0.0623	1.0852	0.2356	1.3800e- 003	0.4110	3.8000e- 004	0.4114	0.0425	3.6000e- 004	0.0429		143.8309	143.8309	0.0269		144.5038

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Crow Creek Solar - Stanislaus County, Summer

3.8 Testing/Site Clean up - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258		i i	0.0000			0.0000
Off-Road	0.4486	5.5177	3.0780	8.6900e- 003		0.1800	0.1800	 	0.1656	0.1656	0.0000	841.3414	841.3414	0.2721	 	848.1441
Total	0.4486	5.5177	3.0780	8.6900e- 003	0.2386	0.1800	0.4186	0.0258	0.1656	0.1914	0.0000	841.3414	841.3414	0.2721		848.1441

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	1.1000e- 004	8.3700e- 003	5.3000e- 004	1.0000e- 005	1.9000e- 004	0.0000	2.0000e- 004	2.0000e- 005	0.0000	2.0000e- 005		1.3692	1.3692	2.8000e- 004		1.3762
Vendor	0.0151	1.0681	0.1119	1.2600e- 003	0.0960	1.6000e- 004	0.0962	0.0103	1.6000e- 004	0.0105		131.8768	131.8768	0.0260		132.5263
Worker	0.0471	8.8100e- 003	0.1231	1.1000e- 004	0.1586	2.2000e- 004	0.1588	0.0166	2.0000e- 004	0.0168		10.5850	10.5850	6.6000e- 004		10.6014
Total	0.0623	1.0852	0.2356	1.3800e- 003	0.2548	3.8000e- 004	0.2552	0.0269	3.6000e- 004	0.0273		143.8309	143.8309	0.0269		144.5038

4.0 Operational Detail - Mobile

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Crow Creek Solar - Stanislaus County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	0.2333	1.6984	2.7123	0.0131	0.8984	8.2300e- 003	0.9067	0.2410	7.7100e- 003	0.2487		1,331.256 8	1,331.256 8	0.0549		1,332.630 2
Unmitigated	0.2333	1.6984	2.7123	0.0131	0.8984	8.2300e- 003	0.9067	0.2410	7.7100e- 003	0.2487		1,331.256 8	1,331.256 8	0.0549		1,332.630 2

4.2 Trip Summary Information

	Avei	rage Daily Trip Ra	ite	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	108.40	108.40	108.40	418,800	418,800
Total	108.40	108.40	108.40	418,800	418,800

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.529564	0.031735	0.175601	0.112621	0.019191	0.004761	0.027424	0.090197	0.001836	0.001047	0.004420	0.000822	0.000781

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Crow Creek Solar - Stanislaus County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Mitigated	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Unmitigated	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003	,	78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

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Crow Creek Solar - Stanislaus County, Summer

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	day		
Unrefrigerated Warehouse-No Rail	671.189	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Total		7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Unrefrigerated Warehouse-No Rail	0.671189	7.2400e- 003	0.0658	0.0553	3.9000e- 004	_	5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Total		7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

6.0 Area Detail

6.1 Mitigation Measures Area

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Crow Creek Solar - Stanislaus County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Unmitigated	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000	i i	2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory													lb/d	day		
0 4!	3.8100e- 003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2900		1 1 1			0.0000	0.0000	1 	0.0000	0.0000			0.0000		 	0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000	1 	0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005	 	3.1600e- 003
Total	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

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Crow Creek Solar - Stanislaus County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	lay		
0 41 1	3.8100e- 003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
	0.2900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Total	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Crow Creek Solar - Stanislaus County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
<u>Boilers</u>						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	
User Defined Equipment						

User Defined Equipment

Equipment Type	Number
Equipment Type	Number

11.0 Vegetation

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Crow Creek Solar - Stanislaus County, Winter

Crow Creek Solar Stanislaus County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.55	1000sqft	239.00	13,550.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2024
Utility Company	Pacific Gas & Electric Cor	mpany			
CO2 Intensity (lb/MWhr)	210	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Crow Creek Solar - Stanislaus County, Winter

Project Characteristics - CO2 Intensity Factor per PG&E 2018 Sustainability Report http://www.pgecorp.com/corp_responsibility/reports/2019/assets/PGE_CRSR_2019.pdf

Land Use - Crow Creek Phase II 239 acre project site.

Construction Phase - Client provided information

Off-road Equipment - Client provided information

Trips and VMT - Client provided information. LST analysis trip length set equal to 1,000 ft to represent onsite vehichle operation only.

On-road Fugitive Dust - Based on project site.

Grading - Total acres grades set equal to acres of solar project site, 239 acres.

Vehicle Trips - Client provided information

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Vehicle Emission Factors - Default values

Road Dust - Default values

Area Coating - Default values

Landscape Equipment - Default values

Energy Use - Default values

Water And Wastewater - Client provided information for outdoor water use.

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Fleet Mix -

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Crow Creek Solar - Stanislaus County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	6775	500
tblAreaCoating	Area_Nonresidential_Interior	20325	1500
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	4,650.00	87.00
tblConstructionPhase	NumDays	4,650.00	87.00
tblConstructionPhase	NumDays	465.00	54.00
tblConstructionPhase	NumDays	180.00	41.00
tblConstructionPhase	NumDays	180.00	78.00
tblGrading	AcresOfGrading	41.00	239.00
tblLandUse	LotAcreage	0.31	239.00
tblOffRoadEquipment	HorsePower	402.00	200.00
tblOffRoadEquipment	HorsePower	172.00	440.00
tblOffRoadEquipment	HorsePower	124.00	50.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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thIO#Dood Familians and	OffDoodEquipment laitAssess	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		System Installation
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00

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thIOnD ID t	VandarDa	100.00	07.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	VendorPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblOnRoadDust	WorkerPercentPave	100.00	97.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	210
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	12.74	0.94
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00

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tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripLength	6.60	0.19
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	2.00	26.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripLength	16.80	0.19
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	26.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblTripsAndVMT	WorkerTripNumber	6.00	16.00
tblTripsAndVMT	WorkerTripNumber	6.00	76.00

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tblTripsAndVMT	WorkerTripNumber	5.00	30.00
tblVehicleTrips	ST_TR	1.68	8.00
tblVehicleTrips	SU_TR	1.68	8.00
tblVehicleTrips	WD_TR	1.68	8.00
tblWater	IndoorWaterUseRate	3,133,437.50	231,250.00
tblWater	OutdoorWaterUseRate	0.00	6,285,770.00

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2023	7.9847	89.1113	84.8776	0.1673	14.1390	3.5151	17.6541	4.1776	3.2339	7.4115	0.0000	16,225.55 53	16,225.55 53	5.2091	0.0000	16,355.78 37
Maximum	7.9847	89.1113	84.8776	0.1673	14.1390	3.5151	17.6541	4.1776	3.2339	7.4115	0.0000	16,225.55 53	16,225.55 53	5.2091	0.0000	16,355.78 37

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year				lb/d	lay											
2023	7.9847	89.1113	84.8776	0.1673	6.6908	3.5151	10.2059	1.9162	3.2339	5.1501	0.0000	16,225.55 52	16,225.55 52	5.2091	0.0000	16,355.78 37
Maximum	7.9847	89.1113	84.8776	0.1673	6.6908	3.5151	10.2059	1.9162	3.2339	5.1501	0.0000	16,225.55 52	16,225.55 52	5.2091	0.0000	16,355.78 37

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.68	0.00	42.19	54.13	0.00	30.51	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category		lb/day											lb/day					
Area	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003		
Energy	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327		
Mobile	0.1879	1.7510	2.4204	0.0121	0.8984	8.2800e- 003	0.9067	0.2410	7.7500e- 003	0.2487		1,230.567 9	1,230.567 9	0.0573		1,232.000 6		
Total	0.4891	1.8168	2.4770	0.0124	0.8984	0.0133	0.9117	0.2410	0.0128	0.2537		1,309.534 3	1,309.534 3	0.0588	1.4500e- 003	1,311.436 4		

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		lb/day											lb/day			
Area	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Energy	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Mobile	0.1879	1.7510	2.4204	0.0121	0.8984	8.2800e- 003	0.9067	0.2410	7.7500e- 003	0.2487		1,230.567 9	1,230.567 9	0.0573		1,232.000 6
Total	0.4891	1.8168	2.4770	0.0124	0.8984	0.0133	0.9117	0.2410	0.0128	0.2537		1,309.534 3	1,309.534 3	0.0588	1.4500e- 003	1,311.436 4

Crow Creek Solar - Stanislaus County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2023	6/26/2023	5	41	
2	Perimeter Fence Installation	Trenching	5/1/2023	6/12/2023	5	31	
3	Interconneciton Construction	Trenching	5/31/2023	9/13/2023	5	76	
4	Underground work (trenching)	Grading	6/15/2023	8/29/2023	5	54	
5	Energy Storage System	Building Construction	6/15/2023	10/13/2023	5	87	
6	System Installation	Building Construction	6/15/2023	10/13/2023	5	87	
7	Testing/Site Clean up	Site Preparation	9/13/2023	12/31/2023	5	78	

Acres of Grading (Site Preparation Phase): 239

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	
Site Preparation	Graders	2	8.00	187	0.41	
Site Preparation	Rollers	2	8.00	80	0.38	
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40	

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Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Perimeter Fence Installation	Off-Highway Trucks	0	8.00	200	0.38
Perimeter Fence Installation	Rough Terrain Forklifts	1	8.00	100	0.40
Perimeter Fence Installation	Skid Steer Loaders	3	8.00	65	0.37
Interconneciton Construction	Aerial Lifts	1	8.00	63	0.31
Interconneciton Construction	Cranes	2	8.00	231	0.29
Interconneciton Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Underground work (trenching)	Excavators	2	8.00	158	0.38
Underground work (trenching)	Graders	0	8.00	187	0.41
Underground work (trenching)	Off-Highway Trucks	0		402	0.38
Underground work (trenching)	Other Construction Equipment	1	8.00	440	0.42
Underground work (trenching)	Rollers	1	8.00	80	0.38
Underground work (trenching)	Rough Terrain Forklifts	1	8.00	100	0.40
Underground work (trenching)	Rubber Tired Dozers	0	8.00	247	0.40
Underground work (trenching)	Scrapers	0	8.00	367	0.48
Underground work (trenching)	Tractors/Loaders/Backhoes		8.00	97	0.37
Energy Storage System	Cranes	1	8.00	231	0.29
Energy Storage System	Forklifts		8.00	89	0.20
Energy Storage System	Generator Sets		8.00	84	0.74
Energy Storage System	Graders	1	8.00	187	0.41
Energy Storage System	Rough Terrain Forklifts	4	8.00	100	0.40
Energy Storage System	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Energy Storage System	Welders	0	8.00	46	0.45
System Installation	Cranes	1	8.00	231	0.29
System Installation	Forklifts	0	8.00	89	0.20
System Installation	Generator Sets	. 0	8.00	84	0.74

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System Installation	Off-Highway Tractors	20	8.00	50	0.44
System Installation	Off-Highway Trucks	0	- ! !	402	0.38
System Installation	Off-Highway Trucks	0	·	402	0.38
System Installation	Other Construction Equipment	4	8.00	172	0.42
System Installation	Rough Terrain Forklifts	8	8.00	100	0.40
System Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
System Installation	Welders	0	8.00	46	0.45
Testing/Site Clean up	Graders	1	8.00	187	0.41
Testing/Site Clean up	Off-Highway Trucks	0	·	402	0.38
Testing/Site Clean up	Skid Steer Loaders	1:	8.00	65	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	6	26.00	18.00	16.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Perimeter Fence	4	20.00	14.00	2.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Interconneciton	4	26.00	2.00	2.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Underground work	5	26.00	8.00	2.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Energy Storage	6	16.00	2.00	2.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
System Installation	33	76.00	26.00	32.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Testing/Site Clean up	2	30.00	18.00	8.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Site Preparation - 2023
Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/d	day			
Fugitive Dust					12.2040	0.0000	12.2040	3.9777	0.0000	3.9777			0.0000			0.0000
Off-Road	1.9104	21.1891	12.4274	0.0301		0.8754	0.8754		0.8054	0.8054		2,918.502 9	2,918.502 9	0.9439	;	2,942.100 4
Total	1.9104	21.1891	12.4274	0.0301	12.2040	0.8754	13.0795	3.9777	0.8054	4.7831		2,918.502 9	2,918.502 9	0.9439		2,942.100 4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/d	day				
Hauling	4.9000e- 004	0.0309	3.1500e- 003	4.0000e- 005	1.1600e- 003	1.0000e- 005	1.1700e- 003	1.3000e- 004	1.0000e- 005	1.4000e- 004		4.5647	4.5647	1.2200e- 003		4.5952
Vendor	0.0168	1.0461	0.1515	1.1100e- 003	0.1546	2.1000e- 004	0.1548	0.0161	2.0000e- 004	0.0163		116.4377	116.4377	0.0297		117.1803
Worker	0.0242	9.1000e- 003	0.1462	9.0000e- 005	0.2220	1.9000e- 004	0.2222	0.0228	1.7000e- 004	0.0230		8.5265	8.5265	7.3000e- 004		8.5449
Total	0.0415	1.0861	0.3008	1.2400e- 003	0.3777	4.1000e- 004	0.3781	0.0391	3.8000e- 004	0.0395		129.5289	129.5289	0.0317		130.3204

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3.2 Site Preparation - 2023

<u>Mitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					5.4918	0.0000	5.4918	1.7900	0.0000	1.7900			0.0000			0.0000
Off-Road	1.9104	21.1891	12.4274	0.0301		0.8754	0.8754		0.8054	0.8054	0.0000	2,918.502 9	2,918.502 9	0.9439		2,942.100 4
Total	1.9104	21.1891	12.4274	0.0301	5.4918	0.8754	6.3672	1.7900	0.8054	2.5954	0.0000	2,918.502 9	2,918.502 9	0.9439		2,942.100 4

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	4.9000e- 004	0.0309	3.1500e- 003	4.0000e- 005	7.4000e- 004	1.0000e- 005	7.5000e- 004	9.0000e- 005	1.0000e- 005	9.0000e- 005		4.5647	4.5647	1.2200e- 003		4.5952
Vendor	0.0168	1.0461	0.1515	1.1100e- 003	0.0960	2.1000e- 004	0.0962	0.0103	2.0000e- 004	0.0105		116.4377	116.4377	0.0297		117.1803
Worker	0.0242	9.1000e- 003	0.1462	9.0000e- 005	0.1374	1.9000e- 004	0.1376	0.0144	1.7000e- 004	0.0146		8.5265	8.5265	7.3000e- 004		8.5449
Total	0.0415	1.0861	0.3008	1.2400e- 003	0.2342	4.1000e- 004	0.2346	0.0248	3.8000e- 004	0.0251		129.5289	129.5289	0.0317		130.3204

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3.3 Perimeter Fence Installation - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221		935.2621	935.2621	0.3025		942.8242
Total	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221		935.2621	935.2621	0.3025		942.8242

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
	8.0000e- 005	5.1000e- 003	5.2000e- 004	1.0000e- 005	1.9000e- 004	0.0000	1.9000e- 004	2.0000e- 005	0.0000	2.0000e- 005		0.7547	0.7547	2.0000e- 004		0.7597
Vendor	0.0131	0.8137	0.1178	8.6000e- 004	0.1202	1.6000e- 004	0.1204	0.0126	1.5000e- 004	0.0127		90.5627	90.5627	0.0231		91.1402
	0.0186	7.0000e- 003	0.1124	7.0000e- 005	0.1708	1.4000e- 004	0.1709	0.0176	1.3000e- 004	0.0177		6.5588	6.5588	5.7000e- 004		6.5730
Total	0.0318	0.8258	0.2308	9.4000e- 004	0.2912	3.0000e- 004	0.2915	0.0302	2.8000e- 004	0.0304		97.8762	97.8762	0.0239		98.4729

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Crow Creek Solar - Stanislaus County, Winter

3.3 Perimeter Fence Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221	0.0000	935.2621	935.2621	0.3025		942.8242
Total	0.3010	3.9935	6.4435	9.6600e- 003		0.1327	0.1327		0.1221	0.1221	0.0000	935.2621	935.2621	0.3025		942.8242

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	8.0000e- 005	5.1000e- 003	5.2000e- 004	1.0000e- 005	1.2000e- 004	0.0000	1.2000e- 004	1.0000e- 005	0.0000	2.0000e- 005		0.7547	0.7547	2.0000e- 004		0.7597
Vendor	0.0131	0.8137	0.1178	8.6000e- 004	0.0747	1.6000e- 004	0.0748	8.0000e- 003	1.5000e- 004	8.1600e- 003		90.5627	90.5627	0.0231		91.1402
Worker	0.0186	7.0000e- 003	0.1124	7.0000e- 005	0.1057	1.4000e- 004	0.1059	0.0111	1.3000e- 004	0.0112		6.5588	6.5588	5.7000e- 004		6.5730
Total	0.0318	0.8258	0.2308	9.4000e- 004	0.1805	3.0000e- 004	0.1808	0.0191	2.8000e- 004	0.0194		97.8762	97.8762	0.0239		98.4729

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Crow Creek Solar - Stanislaus County, Winter

3.4 Interconneciton Construction - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714		1,581.834 8	1,581.834 8	0.5116		1,594.624 8
Total	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714		1,581.834 8	1,581.834 8	0.5116		1,594.624 8

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	3.0000e- 005	2.0800e- 003	2.1000e- 004	0.0000	8.0000e- 005	0.0000	8.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.3078	0.3078	8.0000e- 005		0.3099
Vendor	1.8700e- 003	0.1162	0.0168	1.2000e- 004	0.0172	2.0000e- 005	0.0172	1.7900e- 003	2.0000e- 005	1.8200e- 003		12.9375	12.9375	3.3000e- 003		13.0200
Worker	0.0242	9.1000e- 003	0.1462	9.0000e- 005	0.2220	1.9000e- 004	0.2222	0.0228	1.7000e- 004	0.0230		8.5265	8.5265	7.3000e- 004		8.5449
Total	0.0261	0.1274	0.1632	2.1000e- 004	0.2393	2.1000e- 004	0.2395	0.0246	1.9000e- 004	0.0248		21.7718	21.7718	4.1100e- 003		21.8748

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Crow Creek Solar - Stanislaus County, Winter

3.4 Interconneciton Construction - 2023 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714	0.0000	1,581.834 8	1,581.834 8	0.5116		1,594.624 8
Total	0.8888	9.7000	6.9922	0.0163		0.4037	0.4037		0.3714	0.3714	0.0000	1,581.834 8	1,581.834 8	0.5116		1,594.624 8

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	3.0000e- 005	2.0800e- 003	2.1000e- 004	0.0000	5.0000e- 005	0.0000	5.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.3078	0.3078	8.0000e- 005		0.3099
Vendor	1.8700e- 003	0.1162	0.0168	1.2000e- 004	0.0107	2.0000e- 005	0.0107	1.1400e- 003	2.0000e- 005	1.1700e- 003		12.9375	12.9375	3.3000e- 003		13.0200
Worker	0.0242	9.1000e- 003	0.1462	9.0000e- 005	0.1374	1.9000e- 004	0.1376	0.0144	1.7000e- 004	0.0146		8.5265	8.5265	7.3000e- 004		8.5449
Total	0.0261	0.1274	0.1632	2.1000e- 004	0.1482	2.1000e- 004	0.1484	0.0155	1.9000e- 004	0.0157		21.7718	21.7718	4.1100e- 003		21.8748

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Crow Creek Solar - Stanislaus County, Winter

3.5 Underground work (trenching) - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2248	12.0135	15.2049	0.0324	 	0.5094	0.5094	 	0.4686	0.4686		3,140.157 9	3,140.157 9	1.0156	 	3,165.547 7
Total	1.2248	12.0135	15.2049	0.0324	0.0000	0.5094	0.5094	0.0000	0.4686	0.4686		3,140.157 9	3,140.157 9	1.0156		3,165.547 7

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	5.0000e- 005	2.9300e- 003	3.0000e- 004	0.0000	1.1000e- 004	0.0000	1.1000e- 004	1.0000e- 005	0.0000	1.0000e- 005		0.4332	0.4332	1.2000e- 004		0.4361
Vendor	7.4700e- 003	0.4650	0.0673	4.9000e- 004	0.0687	9.0000e- 005	0.0688	7.1800e- 003	9.0000e- 005	7.2600e- 003		51.7501	51.7501	0.0132		52.0801
Worker	0.0242	9.1000e- 003	0.1462	9.0000e- 005	0.2220	1.9000e- 004	0.2222	0.0228	1.7000e- 004	0.0230		8.5265	8.5265	7.3000e- 004		8.5449
Total	0.0317	0.4770	0.2138	5.8000e- 004	0.2908	2.8000e- 004	0.2911	0.0300	2.6000e- 004	0.0303		60.7098	60.7098	0.0141		61.0611

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Crow Creek Solar - Stanislaus County, Winter

3.5 Underground work (trenching) - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2248	12.0135	15.2049	0.0324		0.5094	0.5094	 	0.4686	0.4686	0.0000	3,140.157 9	3,140.157 9	1.0156		3,165.547 7
Total	1.2248	12.0135	15.2049	0.0324	0.0000	0.5094	0.5094	0.0000	0.4686	0.4686	0.0000	3,140.157 9	3,140.157 9	1.0156		3,165.547 7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	5.0000e- 005	2.9300e- 003	3.0000e- 004	0.0000	7.0000e- 005	0.0000	7.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.4332	0.4332	1.2000e- 004		0.4361
Vendor	7.4700e- 003	0.4650	0.0673	4.9000e- 004	0.0427	9.0000e- 005	0.0428	4.5700e- 003	9.0000e- 005	4.6600e- 003		51.7501	51.7501	0.0132		52.0801
Worker	0.0242	9.1000e- 003	0.1462	9.0000e- 005	0.1374	1.9000e- 004	0.1376	0.0144	1.7000e- 004	0.0146		8.5265	8.5265	7.3000e- 004		8.5449
Total	0.0317	0.4770	0.2138	5.8000e- 004	0.1802	2.8000e- 004	0.1805	0.0190	2.6000e- 004	0.0192		60.7098	60.7098	0.0141		61.0611

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Crow Creek Solar - Stanislaus County, Winter

3.6 Energy Storage System - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507		2,534.888 2	2,534.888 2	0.8198		2,555.384 1
Total	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507		2,534.888 2	2,534.888	0.8198		2,555.384 1

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	3.0000e- 005	1.8200e- 003	1.9000e- 004	0.0000	7.0000e- 005	0.0000	7.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.2689	0.2689	7.0000e- 005		0.2707
Vendor	1.8700e- 003	0.1162	0.0168	1.2000e- 004	0.0172	2.0000e- 005	0.0172	1.7900e- 003	2.0000e- 005	1.8200e- 003		12.9375	12.9375	3.3000e- 003		13.0200
Worker	0.0149	5.6000e- 003	0.0900	5.0000e- 005	0.1366	1.2000e- 004	0.1367	0.0141	1.1000e- 004	0.0142		5.2471	5.2471	4.5000e- 004		5.2584
Total	0.0168	0.1237	0.1070	1.7000e- 004	0.1539	1.4000e- 004	0.1540	0.0159	1.3000e- 004	0.0160		18.4535	18.4535	3.8200e- 003		18.5491

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Crow Creek Solar - Stanislaus County, Winter

3.6 Energy Storage System - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507	0.0000	2,534.888 2	2,534.888 2	0.8198		2,555.384 1
Total	1.1579	14.0661	12.6762	0.0262		0.4899	0.4899		0.4507	0.4507	0.0000	2,534.888 2	2,534.888 2	0.8198		2,555.384 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	3.0000e- 005	1.8200e- 003	1.9000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005		0.2689	0.2689	7.0000e- 005		0.2707
Vendor	1.8700e- 003	0.1162	0.0168	1.2000e- 004	0.0107	2.0000e- 005	0.0107	1.1400e- 003	2.0000e- 005	1.1700e- 003		12.9375	12.9375	3.3000e- 003		13.0200
Worker	0.0149	5.6000e- 003	0.0900	5.0000e- 005	0.0846	1.2000e- 004	0.0847	8.8500e- 003	1.1000e- 004	8.9600e- 003		5.2471	5.2471	4.5000e- 004		5.2584
Total	0.0168	0.1237	0.1070	1.7000e- 004	0.0953	1.4000e- 004	0.0954	0.0100	1.3000e- 004	0.0101		18.4535	18.4535	3.8200e- 003		18.5491

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Crow Creek Solar - Stanislaus County, Winter

3.7 System Installation - 2023 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360		5,622.293 5	5,622.293 5	1.8184		5,667.752 6
Total	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360		5,622.293 5	5,622.293 5	1.8184		5,667.752 6

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	4.6000e- 004	0.0291	2.9700e- 003	4.0000e- 005	1.1000e- 003	1.0000e- 005	1.1000e- 003	1.2000e- 004	1.0000e- 005	1.3000e- 004		4.3024	4.3024	1.1500e- 003		4.3311
Vendor	0.0243	1.5111	0.2188	1.6000e- 003	0.2233	3.0000e- 004	0.2236	0.0233	2.9000e- 004	0.0236		168.1879	168.1879	0.0429		169.2604
Worker	0.0707	0.0266	0.4273	2.6000e- 004	0.6490	5.5000e- 004	0.6495	0.0668	5.1000e- 004	0.0673		24.9236	24.9236	2.1500e- 003		24.9773
Total	0.0955	1.5668	0.6491	1.9000e- 003	0.8733	8.6000e- 004	0.8742	0.0902	8.1000e- 004	0.0910		197.4138	197.4138	0.0462		198.5688

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Crow Creek Solar - Stanislaus County, Winter

3.7 System Installation - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360	0.0000	5,622.293 5	5,622.293 5	1.8184		5,667.752 6
Total	2.5913	28.7617	36.1431	0.0581		1.2348	1.2348		1.1360	1.1360	0.0000	5,622.293 5	5,622.293 5	1.8184		5,667.752 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	4.6000e- 004	0.0291	2.9700e- 003	4.0000e- 005	7.0000e- 004	1.0000e- 005	7.1000e- 004	8.0000e- 005	1.0000e- 005	9.0000e- 005		4.3024	4.3024	1.1500e- 003		4.3311
Vendor	0.0243	1.5111	0.2188	1.6000e- 003	0.1387	3.0000e- 004	0.1390	0.0149	2.9000e- 004	0.0152		168.1879	168.1879	0.0429		169.2604
Worker	0.0707	0.0266	0.4273	2.6000e- 004	0.4018	5.5000e- 004	0.4023	0.0420	5.1000e- 004	0.0425		24.9236	24.9236	2.1500e- 003		24.9773
Total	0.0955	1.5668	0.6491	1.9000e- 003	0.5411	8.6000e- 004	0.5420	0.0570	8.1000e- 004	0.0578		197.4138	197.4138	0.0462		198.5688

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Crow Creek Solar - Stanislaus County, Winter

3.8 Testing/Site Clean up - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
l aginvo Buot					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573		1	0.0000			0.0000
Off-Road	0.4486	5.5177	3.0780	8.6900e- 003		0.1800	0.1800	 	0.1656	0.1656		841.3414	841.3414	0.2721		848.1441
Total	0.4486	5.5177	3.0780	8.6900e- 003	0.5303	0.1800	0.7103	0.0573	0.1656	0.2229		841.3414	841.3414	0.2721		848.1441

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	1.3000e- 004	8.1100e- 003	8.3000e- 004	1.0000e- 005	3.1000e- 004	0.0000	3.1000e- 004	3.0000e- 005	0.0000	4.0000e- 005		1.1997	1.1997	3.2000e- 004		1.2077
Vendor	0.0168	1.0461	0.1515	1.1100e- 003	0.1546	2.1000e- 004	0.1548	0.0161	2.0000e- 004	0.0163		116.4377	116.4377	0.0297		117.1803
Worker	0.0279	0.0105	0.1687	1.0000e- 004	0.2562	2.2000e- 004	0.2564	0.0264	2.0000e- 004	0.0266		9.8383	9.8383	8.5000e- 004		9.8594
Total	0.0449	1.0647	0.3210	1.2200e- 003	0.4110	4.3000e- 004	0.4115	0.0425	4.0000e- 004	0.0429		127.4757	127.4757	0.0309	·	128.2475

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3.8 Testing/Site Clean up - 2023 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Fugitive Dust	11 11 11				0.2386	0.0000	0.2386	0.0258	0.0000	0.0258		i i	0.0000		! !	0.0000
Off-Road	0.4486	5.5177	3.0780	8.6900e- 003		0.1800	0.1800	 	0.1656	0.1656	0.0000	841.3414	841.3414	0.2721	 	848.1441
Total	0.4486	5.5177	3.0780	8.6900e- 003	0.2386	0.1800	0.4186	0.0258	0.1656	0.1914	0.0000	841.3414	841.3414	0.2721		848.1441

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	1.3000e- 004	8.1100e- 003	8.3000e- 004	1.0000e- 005	1.9000e- 004	0.0000	2.0000e- 004	2.0000e- 005	0.0000	2.0000e- 005		1.1997	1.1997	3.2000e- 004		1.2077
Vendor	0.0168	1.0461	0.1515	1.1100e- 003	0.0960	2.1000e- 004	0.0962	0.0103	2.0000e- 004	0.0105		116.4377	116.4377	0.0297		117.1803
Worker	0.0279	0.0105	0.1687	1.0000e- 004	0.1586	2.2000e- 004	0.1588	0.0166	2.0000e- 004	0.0168		9.8383	9.8383	8.5000e- 004		9.8594
Total	0.0449	1.0647	0.3210	1.2200e- 003	0.2548	4.3000e- 004	0.2552	0.0269	4.0000e- 004	0.0273		127.4757	127.4757	0.0309		128.2475

4.0 Operational Detail - Mobile

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Crow Creek Solar - Stanislaus County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		
Mitigated	0.1879	1.7510	2.4204	0.0121	0.8984	8.2800e- 003	0.9067	0.2410	7.7500e- 003	0.2487		1,230.567 9	1,230.567 9	0.0573	! !	1,232.000 6
Unmitigated	0.1879	1.7510	2.4204	0.0121	0.8984	8.2800e- 003	0.9067	0.2410	7.7500e- 003	0.2487		1,230.567 9	1,230.567 9	0.0573		1,232.000 6

4.2 Trip Summary Information

	Avei	rage Daily Trip Ra	ite	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	108.40	108.40	108.40	418,800	418,800
Total	108.40	108.40	108.40	418,800	418,800

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No	0.529564	0.031735	0.175601	0.112621	0.019191	0.004761	0.027424	0.090197	0.001836	0.001047	0.004420	0.000822	0.000781
Rail				:					:				

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Crow Creek Solar - Stanislaus County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Unmitigated	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

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Crow Creek Solar - Stanislaus County, Winter

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	day		
Unrefrigerated Warehouse-No Rail	671.189	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Total		7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Unrefrigerated Warehouse-No Rail	0.671189	7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327
Total		7.2400e- 003	0.0658	0.0553	3.9000e- 004		5.0000e- 003	5.0000e- 003		5.0000e- 003	5.0000e- 003		78.9634	78.9634	1.5100e- 003	1.4500e- 003	79.4327

6.0 Area Detail

6.1 Mitigation Measures Area

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Crow Creek Solar - Stanislaus County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Unmitigated	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000	i i	2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
_ · ·	3.8100e- 003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Total	0.2939	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

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Crow Creek Solar - Stanislaus County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	3.8100e- 003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3800e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003
Total	0.2939	1.0000e- 005	1.3800e- 003	0.0000	-	0.0000	0.0000		0.0000	0.0000		2.9700e- 003	2.9700e- 003	1.0000e- 005		3.1600e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Equipment Type	Number	1 louis/Day	Days/Teal	1 1015e FOWel	Luau Factor	ruerrype

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Crow Creek Solar - Stanislaus County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
<u>Boilers</u>						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix C

Traffic Technical Memorandum

MEMORANDUM

To: Patti Murphy and Dexter Liu, Crow Creek Solar, LLC

From: Mladen Popovic, AICP, Transportation Planner

Sabita Tewani, AICP, Transportation Planner

Subject: Transportation and Traffic Assessment for the Paulsell Solar Energy Center

Date: April 15, 2021

Attachments: A – Raw Traffic Counts

B - Intersection LOS WorksheetsC - Freeway Mainline LOS Worksheets

Dudek has prepared this preliminary transportation and traffic assessment to assist Stanislaus County ("County") with environmental planning requirements for the proposed Paulsell Solar Energy Center ("Paulsell Project"). This assessment is in support of an Addendum to the *Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration* ("2010 MND"). The Scatec Westside Solar Ranch ("Approved Project") 2010 MND was prepared by the County Planning and Community Development Department pursuant to the California Environmental Quality Act ("CEQA"), California Public Resources Code Section 21000 et seq., circulated for public review and comment, and approved by the County Planning Commission in November 2010.

The purpose of this memorandum is to evaluate the changes to the Scatec Westside Solar Ranch - Phase II as proposed under the Paulsell Project. Accordingly, this memorandum estimates trip generation and operational analysis (level of service) from short-term construction and long-term operation of the Paulsell Project. This memorandum also analyzes the potential construction-related impacts of the Paulsell Project based on CEQA Guidelines Section 15064.3(b), which focuses on newly adopted criteria (vehicle miles traveled, or "VMT") pursuant to Senate Bill ("SB") 743 for determining the significance of transportation impacts. Pursuant to SB 743, the focus of transportation analysis changed from level of service ("LOS") or vehicle delay to VMT. The related updates to the CEQA Guidelines required under SB 743 were approved on December 28, 2018. As stated in CEQA Guidelines Section 15064.3(c), the provisions of Section 15064.3 shall apply prospectively, and a lead agency may elect to be governed by the provisions of Section 15064.3 immediately. The provisions were required to be implemented statewide on July 1, 2020.

The contents and organization of this memorandum are as follows: project description and scope of analysis, analysis methodology, regulatory setting, thresholds of significance and impact analyses for the transportation and traffic assessment, conclusions, and references cited.

1 Project Description and Scope of Analysis

Crow Creek Solar, LLC ("Crow Creek Solar") proposes to amend the existing conditional use permit ("CUP") for the Scatec Westside Solar Ranch ("Approved Project"), approved by Stanislaus County ("County") in November 2010 and supported by an adopted mitigated negative declaration ("MND") through a County Staff Approval Permit. The

proposed Paulsell Project is designed to generate up to 20 megawatts of electricity on 232 acres and would require support facilities consisting of access roads, fencing, medium-voltage stations, a project collector substation, a battery energy storage system ("BESS"), an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, operations and maintenance ("O&M") building, supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment.

The Paulsell Project would be located on a site covered by an existing MND titled Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration ("2010 MND"). The CUP for the Approved Project (No. 2010-09) allows for the construction, operation, and decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre site, which was part of the original Scatec Westside Solar Ranch CUP ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project Site would be located within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND.

The Paulsell Project includes a solar energy facility similar to the Approved Project. The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed. This increase will be contained entirely within the area previously analyzed and approved for the Original Project Site in the 2010 MND. The Paulsell Project also proposes the potential development of additional support facilities, as described above. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the CUP and 2010 MND.

This memorandum includes analysis of traffic operations under existing conditions with construction-related traffic added to the AM and PM peak hour traffic volumes, and freeway segment AM and PM peak hour directional traffic volumes. The traffic impacts specific to the Paulsell Project under this condition are the basis for determining the Project-specific impacts, any necessary improvement measures, and/or potential conditions of approval. Additionally, short-term cumulative conditions were reviewed to determine if construction of the Paulsell Project would potentially overlap with other construction projects in the area, such as the Proxima Solar Energy Center, Beltran Solar Energy, and San Luis Transmission Line.

This memorandum also includes an assessment of the VMT requirements per CEQA Guidelines Section 15064.3(b) for the Paulsell Project based on guidance provided in Governor's Office of Planning and Research's ("OPR's") Technical Advisory on Evaluating Transportation Impacts in CEQA (OPR 2018).

2 Analysis Methodology

2.1 Level of Service Analysis Methodology

LOS is commonly used as a qualitative description of segments and intersection operations and is based on the design capacity of the segment or intersection configuration, compared to the volume of traffic using the segment or intersection.

2.1.1 Unsignalized Intersections

For the study area unsignalized intersections, the Highway Capacity Manual, 6th Edition ("HCM 6") methodology (TRB 2016) was used. Intersections were analyzed per HCM 6 methodology using Synchro LOS software (version 10). The HCM analysis methodology describes the operation of an intersection using a range of LOS from LOS A (free-flow conditions) to LOS F (severely congested conditions), based on the corresponding control delay experienced per vehicle. All intersections analyzed are either one-way or two-way stop-control intersections, and as per HCM methodology, the delay of the worst movement is analyzed to derive the intersection LOS.

Table 1 shows the LOS values by delay ranges for unsignalized intersections under the HCM methodology.

 Level of Service
 Unsignalized Intersections Control Delay (in seconds)

 A
 < 10.0</td>

 B
 > 10.0 to < 15.0</td>

 C
 > 15.0 to < 25.0</td>

 D
 > 25.0 to < 35.0</td>

 E
 > 35.0 to < 50.0</td>

 F
 > 50.0

Table 1. Levels of Service for Intersections Using HCM Methodology

Source: HCM 6 (TRB 2016).

2.1.2 Freeway Segments

All freeway mainline segments analyzed in this traffic assessment are under the jurisdiction of the California Department of Transportation ("Caltrans"). Per Caltrans requirements, Caltrans facilities were analyzed using the HCM methodology with the Highway Capacity Software 7.0 ("HCS 7"). All freeway mainline segment were analyzed according to the peak hour volume data collected from the Caltrans Traffic Census Program Peak Hour Volume Data webpage (Caltrans 2017).

The freeway analysis is based on assessing freeway operations based on traffic volumes, freeway network, and other segment-specific characteristics, and reporting freeway volume-to-capacity ratio, speed, and density. Density is a measure of the flow rate (in passenger cars per hour, per lane), which is used to determine LOS. Table 2 presents the freeway segment criteria based on the service measure of density.

Table 2. Levels of Service for Basic Freeway Segments at 65 Miles per/Hour

Level of Service	Maximum Density (pc/mi/ln)	Minimum Speed (mph)	Maximum (v/c)3	Maximum Service Flow Rate (pc/hr/ln)
A	11	65.0	0.30	710
В	18	65.0	0.50	1,170
С	26	64.6	0.71	1,680
D	35	59.7	0.89	2,090
E	45	52.2	1.00	2,350

Source: Caltrans 2002.

Notes: pc/mi/ln = passenger car per mile per lane; v/c = volume to capacity.

2.2 Vehicle Miles Traveled Analysis Methodology

CEQA Guidelines Section 15064.3(b) focuses on specific criteria (VMT) for determining the significance of transportation impacts. It is further divided into four subdivisions: (1) land use projects, (2) transportation projects, (3) qualitative analysis, and (4) methodology. The CEQA Guidelines are accompanied by an OPR Technical Advisory, which includes specifications for how to estimate and forecast VMT for these subdivisions.

The proposed project is not a land use or transportation project, and therefore neither Section 15064.3(b)(1) nor Section 15064.3(b)(2) of the CEQA Guidelines apply. Instead, the Paulsell Project would be categorized under Section 15064.3(b)(3) qualitative analysis. The following paragraph from the Section 15064.3(b)(3) provides guidance regarding qualitative analysis:

If existing models or methods are not available to estimate the vehicle miles traveled for the particular project being considered, a lead agency may analyze the project's vehicle miles traveled qualitatively. Such a qualitative analysis would evaluate factors such as the availability of transit, proximity to other destinations, etc. For many projects, a qualitative analysis of construction traffic may be appropriate.

The updated CEQA Guidelines do not establish a significance threshold, but rather recommend a threshold of significance for land use development (residential, office, and other land uses) and transportation projects. It should be noted that there is no significance threshold for construction or maintenance projects. The Paulsell Project would involve construction that would generate temporary construction-related traffic for approximately 8 months and nominal operations traffic; these would be categorized under Section 15064.3(b)(3), qualitative analysis. Section 15064.3(b)(3) recognizes that lead agencies may not be able to quantitatively estimate VMT for every project type. For many projects, a qualitative analysis may be appropriate.

As described below, the VMT generated by the construction of the proposed project would be short term and temporary and would not require a detailed analysis. The VMT generated by the operation of the Paulsell Project would be less than 110 average daily trips and therefore would be screened out using the Small Project Screening criteria.

3 Transportation and Traffic Assessment

3.1 Regulatory Setting and Thresholds of Significance

The study area intersections and roadway segments are located within the jurisdiction of Stanislaus County and Caltrans in the State of California. The regulatory setting and significance criteria for the state, Stanislaus County, and Caltrans are described in the section below.

3.1.1 Senate Bill 743

OPR has approved the addition of new Section 15064.3, "Determining the Significance of Transportation Impacts" to the state's CEQA Guidelines, compliance with which became applicable on July 1, 2020. The updated CEQA Guidelines state that "generally, vehicle miles traveled ["VMT"] is the most appropriate measure of transportation impacts" and define VMT as "the amount and distance of automobile travel attributable to a project." Section 15064.3 (b)(1), Criteria for Analyzing Transportation Impacts, includes presumptions that certain projects (including residential, retail, office, and mixed-use projects) proposed within 0.5 miles of an existing major transit stop or along a high-quality transit corridor will have a less-than-significant impact on VMT.

If the specified presumption does not apply, VMT should be analyzed through a qualitative or quantitative analysis. The updated CEQA Guidelines are accompanied by the Technical Advisory, which includes specifications for how to estimate and forecast VMT. Section 15064.3 (b)(3), Qualitative Analysis, indicates if existing models or methods are not available to estimate the VMT for the particular project, such as construction projects being considered, a lead agency may analyze the project's vehicle miles qualitatively.

3.1.2 California Department of Transportation

To be consistent with the Approved Project, the Caltrans Guide for the Preparation of Traffic Impact Studies (December 2002) was used for LOS standards in the traffic operations analysis of the Paulsell Project. However, it should be noted that to comply with SB 743 implementation, the Caltrans Transportation Impact Study Guide (May 2020), replaced the Guide for the Preparation of Traffic Impact Studies (Caltrans 2002). Per the 2020 Transportation Impact Study Guide, Caltrans' primary review focus is VMT, replacing LOS as the metric used in CEQA transportation analyses. Caltrans recommends use of OPR's recommended thresholds and guidance on methods of VMT assessment found in OPR's Technical Advisory (OPR 2018). In addition to VMT, the 2020 Transportation Impact Study Guide states that it may request a targeted operational and safety analysis to address a specific geometric or operational issue related to the State Highway System and connections with the State Highway System (Caltrans 2020).

As stated in the Caltrans Guide for the Preparation of Traffic Impact Studies (Caltrans 2002), the LOS for operating state highway facilities is based on measures of effectiveness, which describe the measures best suited for analyzing state highway facilities (e.g., freeway segments, signalized intersections, on- or off-ramps). Caltrans endeavors to maintain a target LOS at the transition between LOS C and LOS D on state highway facilities; however, Caltrans acknowledges that this may not always be feasible, and if an existing state highway facility is operating at less than the appropriate target LOS, the existing measure of effectiveness should be maintained.



3.1.3 Stanislaus County

The Stanislaus County General Plan Circulation Element (Stanislaus County 2016) established the following significance criteria for traffic impacts under Policy 2.1:

The County shall maintain LOS C or better for all County roadways and intersections, except, within the sphere of influence of a city that has adopted a lower level of service standard, the City standard shall apply. The County may adopt either a higher or lower level of service standard for roadways and intersections within urban areas such as Community Plan areas, but in no case shall the adopted LOS fall below LOS D.

Therefore, for the purposes of this analysis, LOS C or better is the significance criteria utilized to determine whether an intersection performs at an acceptable LOS.

3.2 Impact Analysis

3.2.1 Would the Paulsell Project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

Transportation/traffic were analyzed in Section 3.3.16 of the 2010 IS/MND. As discussed therein, the Approved Project-generated traffic would be primarily associated with construction activities. Construction activities were anticipated to occur between the hours of 7:30 a.m. and 4:00 p.m., Monday through Friday. The Paulsell Project would, however, conduct construction activities between the hours of 7:00 a.m. and 7:00 p.m. as allowed by the County's noise ordinance. The only effects of the Paulsell Project construction traffic around the Original Project Site would be from entry and exit of construction vehicles from Fink Road, which would be temporary and short term. Construction equipment would be transported to the Original Project Site and would be stored on site until it is no longer needed, which would reduce the amount of daily traffic trips during Paulsell Project construction. Previously, the 2010 IS/MND assumed construction would occur in phases over a period of 8 months. The proposed Paulsell Project would also complete construction in approximately 8 months. This section presents an updated traffic analysis to account for the development footprint increase, and the addition of the BESS, O&M building, and interconnection tie-ins.

Impacts to Roadway Facilities

Construction

Project Trip Generation

Based on the work schedule, in order to provide a conservative analysis, it is assumed that all workers would be arriving inbound to the site during the AM peak period and departing outbound from the site during the PM peak period. Vendor trucks were assumed to be evenly distributed throughout the day over an 8-hour workday. Haul trucks during the peak period of construction were estimated assuming they would be distributed equally over the entire phase and evenly throughout the day over an 8-hour workday. Passenger car equivalent ("PCE") factors were used to account for the Paulsell Project's truck traffic and provide a more realistic impact measurement of Project-

related truck traffic. All truck trips were converted to PCE trips using a factor of 2.0 for vendor trucks and 3.0 for haul trucks. Table 3 provides the Paulsell Project trip generation for the peak period of construction.

Table 3. Peak Construction Phase Trip Generation

	Daily	Daily	AN	/I Peak Ho	our	PM Peak Hour								
Vehicle Type	Quantity	Trips	In	Out	Total	In	Out	Total						
Trip Generation														
Construction Workers 85 workers 170 85 0 85 0 85 85														
Vendor Trucks	28 trucks	56	4	3	7	3	4	7						
Haul Trucks	3 trucks	6	1	0	1	0	1	1						
	Total	232	90	3	93	3	90	93						
	Trip	Generation	on with PO	Œ										
Construction Workers (1.0 PCE)	85 workers	170	85	0	85	0	85	85						
Vendor Trucks (2.0 PCE)	28 trucks	112	8	6	14	6	8	14						
Haul Trucks (3.0 PCE)	3 trucks	18	3	0	3	0	3	3						
	Total (w/PCE)	300	96	6	102	6	96	102						

Note: PCE = passenger car equivalent.

As shown in Table 3, the Paulsell Project is expected to generate approximately 232 daily trips during the peak period of construction, with 93 AM peak-hour trips (90 inbound and 3 outbound), and 93 PM peak-hour trips (3 inbound and 90 outbound). With the application of PCE factors to truck trips, the Paulsell Project would generate 300 PCE daily trips, with 102 PCE trips during the AM peak hour (96 inbound and 6 outbound) and 102 PCE trips during the PM peak hour (6 inbound and 96 outbound).

Cumulative Projects Trip Generation

Based on review of construction phasing, schedule, and information available for cumulative projects in the study area, it was determined that Paulsell Project construction could potentially overlap with the construction of Beltran Solar Energy Center and the San Luis Transmission Line project. As shown in Table 4, the cumulative trip generation is estimated to be approximately 152 daily trips during the overlap of construction, with 61 AM peak-hour trips (60 inbound and 1 outbound), and 61 PM peak-hour trips (1 inbound and 60 outbound). With the application of PCE factors to truck trips, the cumulative trip generation is estimated to be approximately 198 PCE daily trips, with 67 PCE trips during the AM peak hour (65 inbound and 2 outbound) and 67 PCE trips during the PM peak hour (2 inbound and 65 outbound).

Table 4. Cumulative Projects Trip Generation

	Daily	Daily	AN	/I Peak Ho	our	PM Peak Hour							
Vehicle Type	Quantity	Trips	In	Out	Total	In	Out	Total					
Trip Generation for overlap of Paulsell and Beltran ¹ Solar Energy Center Projects													
Construction Workers (1.0 PCE)	36 workers	72	36	0	36	0	36	36					
Vendor Trucks	17 trucks	34	3	1	4	1	3	4					

Table 4. Cumulative Projects Trip Generation

Daily Daily Daily AM Peak Hour

Daily Quantity 3 trucks	Daily Trips	In	Out	Tatal								
3 trucks				Total	In	Out	Total					
	6	1	0	1	0	1	1					
Subtotal	112	40	1	41	1	40	41					
Trip Generation with PCE for overlap of Paulsell and Beltran Solar Energy Center Projects												
36 workers	72	36	0	36	0	36	36					
17 trucks	68	6	2	8	2	6	8					
3 trucks	18	3	0	3	0	3	3					
total (w/PCE)	140	42	2	44	2	42	44					
San L	uis Transr	mission Li	ne2									
20 workers	40	20	0	20	0	20	20					
Subtotal	40	20	0	20	0	20	20					
Total Cumula	ative Proje	ects Trip C	eneration	1								
on-PCE) Trips	152	60	1	61	1	60	61					
nt (PCE) Trips	198	65	2	67	2	65	67					
	36 workers 17 trucks 3 trucks total (w/PCE) San L 20 workers Subtotal Total Cumula	PCE for overlap of Pauls 36 workers 72 17 trucks 68 3 trucks 18 total (w/PCE) 140 San Luis Transi 20 workers 40 Subtotal 40 Total Cumulative Project on-PCE) Trips 152	PCE for overlap of Paulsell and Be 36 workers 72 36 17 trucks 68 6 3 trucks 18 3 total (w/PCE) 140 42 San Luis Transmission Li 20 workers 40 20 Subtotal 40 20 Total Cumulative Projects Trip Goon-PCE) Trips 152 60	PCE for overlap of Paulsell and Beltran Sola 36 workers 72 36 0 17 trucks 68 6 2 3 trucks 18 3 0 total (w/PCE) 140 42 2 San Luis Transmission Line2 20 workers 40 20 0 Subtotal 40 20 0 Total Cumulative Projects Trip Generation 20 1	PCE for overlap of Paulsell and Beltran Solar Energy C 36 workers 72 36 0 36 17 trucks 68 6 2 8 3 trucks 18 3 0 3 total (w/PCE) 140 42 2 44 San Luis Transmission Line2 20 workers 40 20 0 20 Subtotal 40 20 0 20 Total Cumulative Projects Trip Generation con-PCE) Trips 152 60 1 61	PCE for overlap of Paulsell and Beltran Solar Energy Center Projects 36 workers 72 36 0 36 0 17 trucks 68 6 2 8 2 3 trucks 18 3 0 3 0 total (w/PCE) 140 42 2 44 2 San Luis Transmission Line2 20 workers 40 20 0 20 0 Subtotal 40 20 0 20 0 Total Cumulative Projects Trip Generation 0 1 61 1	PCE for overlap of Paulsell and Beltran Solar Energy Center Projects 36 workers 72 36 0 36 0 36 17 trucks 68 6 2 8 2 6 3 trucks 18 3 0 3 0 3 total (w/PCE) 140 42 2 44 2 42 San Luis Transmission Line2 20 workers 40 20 0 20 0 20 Subtotal 40 20 0 20 0 20 Total Cumulative Projects Trip Generation on-PCE) Trips 152 60 1 61 1 60					

Notes: PCE = passenger car equivalent.

The peak construction phase trip generation of Paulsell Project is higher than the cumulative trip generation during the overlap of various construction phases of cumulative projects (i.e., Beltrans Solar Energy Center and San Luis Transmission Line project) with Paulsell Project in the study area. Therefore, to provide a conservative analysis of traffic operations for the intersection and freeway segments, the trips generated during the peak construction phase of Paulsell Project (shown in Table 3) have been used. As such, Existing plus Project conditions represent the worst-case scenario for traffic analysis based on the overlap of construction schedule and phasing of Paulsell Project and other cumulative projects in the area.

Study Area

Figure 1 illustrates the project location and study area, which includes the following intersections and freeway segments.

Intersections:

- 1. Davis Road/Fink Road
- 2. Ward Avenue/Fink Road
- 3. Interstate 5 ("I-5") northbound ramps/Fink Road
- 4. I-5 southbound ramps/Fink Road
- 5. Landfill Access Road/Fink Road

¹ TheBeltran Solar Energy Center construction phasing and schedule were reviewed to estimate the number of workers and trucks that would overlap with the Paulsell Project construction.

San Luis Transmission Line Project Final Environmental Impact Statement/Environmental Impact Report, March 2016, estimates that during peak construction approximately 100 workers would commute to the various project locations along the 85-mile transmission line that extends from the substation in Tracy to the substations in the Los Banos area. Due to limited data available for this project, approximately 20% of 100 workers were assumed to overlap with the worker and truck traffic from the Paulsell Project in the study area during cumulative conditions.

Freeway Segments

- 1. I-5, North of Fink Road
- 2. I-5, South of Fink Road

Existing plus Project Traffic Volumes

Existing peak-hour counts at the study intersections (with the exception of Davis Road/Fink Road intersection) were conducted in 2018 during a typical non-holiday week and subsequently adjusted to reflect 2020 existing conditions at a growth rate of 1% per year. The Davis Road/Fink Road intersection peak hour counts available for the year 2014 were adjusted using a growth rate of 1% per year to reflect the 2020 existing conditions. The peak-hour counts were conducted from 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m. Detailed vehicle axle classification was also collected to calculate heavy-vehicle percentages. Raw traffic counts are provided in Attachment A. Existing annual average daily traffic and peak-hour volumes for freeway segments were obtained from the Caltrans Traffic Census Program webpage for 2017. These values were then adjusted via K and D factors identified in the 2017 Peak Hour Volume Data Report for the nearest freeway segment, thereby calculating peak-hour volumes for the freeway analysis.

Existing plus Project Conditions Analysis

Majority of the worker trips (80%) and all the truck trips (100%) are anticipated to use I-5 and its ramp intersections with Fink Road to access the study area. All Paulsell Project traffic would use the Davis Road/Fink Road intersection to access the Project Site via Davis Road and its overpass at I-5. An analysis of Existing plus Project conditions was conducted by adding peak construction Project traffic to existing AM and PM peak hour traffic counts at the five study area intersections and two freeway segments. The software Synchro Version 10 was used to analyze intersections using delay based HCM 6 methodology. The software HCS 7 (version 7.5) was used to analyze mainline freeway segments using HCM 6 methodology. Results of the intersection and freeway segment operations analysis are provided below.

Intersection Operations Analysis

As shown in Table 5, Existing plus Project Construction Intersection Level of Service, with the addition of Paulsell Project construction traffic, all intersections would operate at LOS B or better. LOS worksheets are provided in Attachment B.

Freeway Segment Operations Analysis

As shown in Table 6, Existing plus Project Construction Freeway Mainline Level of Service, with the addition of Paulsell Project construction traffic, all freeway segments would operate at LOS C or better. Raw freeway segment analysis worksheets are provided in Attachment C.

Furthermore, based on LOS criteria and thresholds for Caltrans and Stanislaus County, all of the study area intersections and freeway segments are forecast to continue to operate at an acceptable LOS (LOS C or better) with the addition of construction-related traffic. Since all study area intersections and freeway segments would continue to operate at acceptable LOS during construction, the Paulsell Project would not conflict with programs, plans, ordinances, or policies addressing the circulation system. No new impact would occur.



Operational

Operation of the Paulsell Project would be primarily associated with maintenance activities, which would include equipment testing, equipment monitoring and repair, and emergency and routine procedures for service continuity and preventative maintenance. It is anticipated that a maximum of three permanent staff employees would use the proposed 2,500-square-foot O&M building for ongoing facility monitoring, equipment storage, and repairs. The Paulsell Project operations would also be monitored remotely through the SCADA system, and periodic inspections and maintenance activities would occur. Additionally, operation of the Paulsell Project would require occasional vegetation clearing and solar panel washing (one to four times per year). However, these maintenance activities would be infrequent and would result in minimal traffic trips. Therefore, because the Paulsell Project would generate nominal operational traffic trips, all study area intersections and freeway segments would continue to operate at acceptable LOS during operation. Therefore, the Paulsell Project would not conflict with programs, plans, ordinances, or policies addressing the circulation system. No new impact would occur.

Impacts to Transit, Bicycle, and Pedestrian Facilities

The study area is in a rural setting that does not generate or attract pedestrian or bicycle traffic. The construction phase of the Paulsell Project would generate temporary traffic impacts in the study area (until construction activities are completed), and O&M would generate nominal trips. During construction, workers would temporarily commute from distant areas to temporary staging areas on the Original Project Site and therefore, would not be use transit service; nor would they commute to the Original Project Site via bicycle or pedestrian travel modes. Therefore, the Paulsell Project would not impact transit, bicycle, or pedestrian facilities in the area, and there would be no new impact.

Table 5. Existing plus Project Construction - Intersection Level of Service

				Exis	ting		Exist	ing plus Pro				
			AM Pe	ak	PM F	eak	AM F	eak	PM F	eak	Change	in Delay
No.	Intersection	Control	Delay ¹	Delay ¹ LOS ²		LOS ²	Delay ¹ LOS ²		Delay ¹	LOS ²	AM	PM
1	Davis Road/Fink Road	TWSC	9.6	Α	9.6	А	10.3	В	10.1	В	0.7	0.5
2	Ward Avenue/Fink Road	TWSC	9.6	Α	10.5	В	10.2	В	11.5	В	0.6	1.0
3	I-5 NB Ramps/Fink Road	TWSC	8.8	Α	9.0	Α	9.1	А	9.1	А	0.3	0.1
4	I-5 SB Ramps/Fink Road	TWSC	9.9	Α	9.7	А	10.2	В	10.5	В	0.3	0.8
5	Landfill Access Rd/Fink Road	TWSC	9.0	Α	8.4	Α	9.0	А	8.4	А	0.0	0.0

Notes: LOS Method from HCM; NB = northbound; SB = southbound; TWSC = two-way stop control.

Table 6. Existing plus Project Construction Freeway Mainline Level of Service

				Exist	ing				Existing						
			Peak Hour Volume ¹		Density (pc/mi/ln) ²		LOS ³		Peak Hour Volume ¹		Density (pc/ln/mi) ²)S ³	Change in Density	
Freeway Segment	Dir.	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
I-5, North of Fink	NB	1,675	1,877	16.2	18.2	В	С	1,677	1,924	16.2	18.6	В	С	0.0	0.4
Road	SB	2,028	2,122	19.6	20.6	С	С	2,065	2,124	20.0	20.6	С	С	0.4	0.0
I-5, South of Fink	NB	1,674	1,959	16.2	18.9	В	С	1,711	1,961	16.5	19.0	В	С	0.3	0.1
Road SB		2,050	2,151	19.9	20.9	С	С	2,052	2,188	19.9	21.3	С	С	0.0	0.4

Notes: LOS based on HCM methodology, analyzed in the 2010 Highway Capacity Software (HCS).

Two mainline lanes (lane geometry taken from field observations).

Delay = delay in seconds per vehicle.

² LOS = Level of Service.

Peak hour volumes calculated from Caltrans Traffic Census Program Peak Hour Volume Data (Caltrans 2017).

Density is presented in "passenger cars per lane per mile."

³ LOS = Level of Service.

3.2.2 Would the Paulsell Project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

CEQA Guidelines Section 15064.3(b) focuses on newly adopted criteria VMT for determining the significance of transportation impacts. Per CEQA Guidelines Section 15064.3, analysis criteria detailed in this CEQA Guidelines section became applicable on July 1, 2020, unless adopted earlier by the lead agency. Section 15064.3(b) is further divided into four subdivisions: (1) land use projects, (2) transportation projects, (3) qualitative analysis, and (4) methodology. The Paulsell Project would involve construction that would generate temporary construction-related traffic for approximately 8 months and nominal operations traffic; these would be categorized under Section 15064.3(b)(3), qualitative analysis. Section 15064.3(b)(3) recognizes that lead agencies may not be able to quantitatively estimate VMT for every project type. For many projects, a qualitative analysis of construction traffic may be appropriate.

Construction

The majority of trips (for workers and trucks) would occur during construction, which would last approximately 8 months. Impacts related to increase in vehicle-trip generation (for workers and trucks) as a result of Paulsell Project construction have been analyzed under threshold a, Impacts to Roadway Facilities. Per OPR, heavy vehicle traffic is not required to be included in the estimation of a project's VMT. As noted above, worker and vendor trips would generate VMT, but once construction (and decommissioning) is completed, the construction-related traffic would cease, and VMT would return to pre-construction conditions. Therefore, VMT generated from construction traffic would be temporary and short term. Further, it should be noted that OPR does not require quantitative assessment of temporary construction traffic. As such, the Paulsell Project would not conflict or be inconsistent with CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3), and impacts would be less than significant.

Operation

Upon completion of construction, operational traffic from the proposed Paulsell Project would be minimal. Operational traffic would be primarily associated with as-needed maintenance activities and panel washing. Based on OPR's Technical Advisory on Evaluating Transportation Impacts in CEQA, December 2018, Screening Threshold for Small Projects, projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less than significant transportation impact (OPR 2018). As mentioned previously, the operation of the Paulsell Project will have nominal traffic generation (approximately 6 trips per day from 3 permanent employees). Therefore, utilizing the guidance provided by OPR, the operation of the Paulsell Project would not generate significant number of trips and thereby not cause substantial amount of VMT. Therefore, the operation of the Paulsell Project would not conflict or be inconsistent with CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3), and impacts would be less than significant.

Finally, the 2010 IS/MND did not identify conflicts or inconsistencies per the provisions of CEQA Guidelines Section 15064.3, subdivision (b). Based on the discussion provided above, no impacts would occur.

3.2.3 Would the Paulsell Project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

As discussed in the 2010 IS/MND, the Approved Project would include new internal all-weather maintenance and emergency access roads, as would the Paulsell Project. Access into the Paulsell Project would be provided through the existing 20-foot-wide paved Davis Road from Fink Road to its western terminus. Primary access to the Paulsell Project would be provided through an access gate along Davis Road.

Access into the Paulsell Project would be provided through the existing 20-foot-wide paved Davis Road from Fink Road to its western terminus. The access road system would be set back 10 feet from the edge of each tracking array. The design of access roads would meet all applicable regulations and requirements for such access, which include the California Fire Code and the Stanislaus County Code (Chapter 16.15). The Paulsell Project does not include any geometric design features that would create a hazard, such as sharp turns or narrow widths. Additionally, the Paulsell Project would not contain any uses that would be incompatible with surrounding uses, creating a substantial hazard. Therefore, no new impact would occur.

3.2.4 Would the Paulsell Project result in inadequate emergency access?

No New Impact. As discussed in the 2010 IS/MND, occasional vehicle access to the site for solar panel washing, vegetation maintenance, and other maintenance activities would be required. The Paulsell Project would include the construction of access roads, as previously described, that would connect to Davis Road. Additionally, during preparation of the 2010 IS/MND, the West Stanislaus County Fire Protection District was consulted regarding the proposed access roads on the Original Project Site for their feedback and approval on the design. Emergency access would be provided through three main gates secured by a Knox Box as directed by the West Stanislaus County Fire Protection District. The Paulsell Project would also be required to comply with such design requirements. Therefore, the Paulsell Project would not affect emergency access to the Original Project Site, and no new impact would occur.

4 Conclusions

According to the transportation and traffic assessment provided above, the following summarizes the impacts of the proposed Paulsell Project:

- The Paulsell Project is expected to generate approximately 232 daily trips during the peak period of construction, with 93 AM peak hour trips (90 inbound and 3 outbound), and 93 PM peak hour trips (3 inbound and 90 outbound). With the application of PCE factors to truck trips, the Paulsell Project would generate 300 PCE daily trips, with 102 PCE trips during the AM peak hour (96 inbound and 6 outbound) and 102 PCE trips during the PM peak hour (6 inbound and 96 outbound).
- All of the study area intersections currently operate at LOS B or better under existing conditions during both peak hours.
- All of the freeway mainline segments currently operate at LOS C or better under existing conditions during both peak hours.
- All of the study area intersections will continue to operate at LOS B or better under existing plus project construction conditions during both peak hours.

- All of the freeway mainline segments will continue to operate at LOS C or better under existing plus project construction conditions during both peak hours.
- The Paulsell Project would generate minimal operational traffic trips; all study area intersections and freeway segments would continue to operate at acceptable LOS during operation.
- The Paulsell Project would not conflict with programs, plans, ordinances, or policies addressing the circulation system; therefore, no new impact would occur.
- The Paulsell Project would not impact transit, bicycle, or pedestrian facilities in the area; therefore, no new impact would occur.
- The Paulsell Project's VMT generated from construction traffic would be temporary and short term. As such, the Paulsell Project would not conflict or be inconsistent with CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3), and impacts would be less than significant.
- The Paulsell Project does not include any geometric design features that would create a hazard, such as sharp turns or narrow widths. Additionally, the Paulsell Project would not contain any uses that would be incompatible with surrounding uses, creating a substantial hazard. Therefore, no new impact would occur.
- The Paulsell Project would not affect emergency access to the site; therefore, no new impacts would occur.

5 References Cited

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Attachment A

Raw Traffic Counts

National Data & Surveying Services

Intersection Turning Movement Count

Location: Ward Ave & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Project ID: 18-7097-001 Date: 3/27/2018

_								To	tal								_
NS/EW Streets:		Ward	d Ave			Ward	Ave			Fink	Rd			Fink	Rd		
		NORTH	HBOUND			SOUTH	BOUND	EASTBOUND				WESTBOUND					
AM	0	0	0	0	0	1	0	0	0	1	0	0	0	11	0_	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	2	0	6	0	1	10	0	0	0	10	1	0	30
7:15 AM	0	0	0	0	7	0	6	0	5	2	0	0	0	17	1	0	38
7:30 AM 7:45 AM	0	0	0	0	5 4	0	5	0	10 1	10 13	0	1 0	0 0	26 17	4	0	61 38
7:45 AM 8:00 AM	0	0	0	0	2	0	9	0	1	13 5	0	0	0	22	0	0	38
8:15 AM	0	0	0	0	4	0	2	0	5	5 14	0	0	0	20	1	0	46
8:30 AM	0	0	0	0	4	0	7	0	3	13	0	0	0	20 15	1	0	43
8:45 AM	0	0	0	0	i	0	7	0	3	13	0	0	0	15	1	0	40
6.43 AM	U				1			U	3	13		-					
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	29	0	43	0	29	80	0	1	0	142	11	0	335
APPROACH %'s:					40.28%	0.00%	59.72%	0.00%	26.36%	72.73%	0.00%	0.91%	0.00%	92.81%	7.19%	0.00%	
PEAK HR :		07:30 AM															TOTAL
PEAK HR VOL:	0	0	0	0	15	0	17	0	17	42	0	1	0	85	7	0	184
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.750	0.000	0.472	0.000	0.425	0.750	0.000	0.250	0.000	0.817	0.438	0.000	0.754
						0.7.	<u> </u>			0.7.	14			0.7	0/		
		NORTH	HBOUND			SOUTH	BOUND			EASTB	OUND			WESTE	BOUND		
PM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	13	0	4	0	5	25	0	0	0	19	2	0	68
4:15 PM	0	0	0	0	11	0	6	0	15	18	0	0	0	12	2	0	64
4:30 PM	0	0	0	0	7	0	3	0	9	30	0	0	0	13	3	0	65
4:45 PM	0	0	0	0	5	0	7	0	16	26	0	0	0	11	2	0	67
5:00 PM	0	0	0	0	5	0	1	0	6	29	0	0	0	6	7	0	54
5:15 PM	0	0	0	0	5	0	5	0	10	28	0	0	0	6	4	0	58
5:30 PM	0	0	0	0	9	0	3	0	11	19	0	0	0	10	4	0	56
5:45 PM	0	0	0	0	7	0	1	0	12	19	0	0	0	4	3	0	46
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	62	0	30	0	84	194	0	0	0	81	27	0	478
APPROACH %'s:					67.39%	0.00%	32.61%	0.00%	30.22%	69.78%	0.00%	0.00%	0.00%	75.00%	25.00%	0.00%	
PEAK HR:		04:00 PM -															TOTAL
		0	0	0	36	0	20	0	45	99	0	0	0	55	9	0	264
PEAK HR VOL:	0		0														204
PEAK HR VOL : PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.692	0.000	0.714	0.000	0.703	0.825	0.000	0.000	0.000	0.724	0.750	0.000	0.971

Intersection Turning Movement Count

Location: Ward Ave & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Passenger Vehicles

Project ID: 18-7097-001 Date: 3/27/2018

							Pas										
NS/EW Streets:		Ward	d Ave			Ward	Ave			Fink	Rd			Fink	Rd		
		NORTI	HBOUND			SOUTH	BOUND			EASTB	OUND			WESTE	OUND		
AM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	2	0	6	0	1	8	0	0	0	9	1	0	27
7:15 AM	0	0	0	0	4	0	5	0	4	2	0	0	0	12	1	0	28
7:30 AM	0	0	0	0	5	0	5	0	10	7	0	1	0	17	4	0	49
7:45 AM	0	0	0	0	4	0	1	0	1	8	0	0	0	12	2	0	28
8:00 AM	0	0	0	0	2	0	8	0	1	3	0	0	0	18	0	0	32
8:15 AM	0	0	0	0	4	0	1	0	4	8	0	0	0	14	1	0	32
8:30 AM	0	0	0	0	3	0	7	0	3	9	0	0	0	11	1	0	34
8:45 AM	0	0	0	0	1	0	4	0	2	7	0	0	0	11	1	0	26
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	25	0	37	0	26	52	0	1	0	104	11	0	256
APPROACH %'s:					40.32%	0.00%	59.68%	0.00%	32.91%	65.82%	0.00%	1.27%	0.00%	90.43%	9.57%	0.00%	
PEAK HR :		07:30 AM	- 08:30 AM														TOTAL
PEAK HR VOL:	0	0	0	0	15	0	15	0	16	26	0	1	0	61	7	0	141
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.750	0.000	0.469	0.000	0.400	0.813	0.000	0.250	0.000	0.847	0.438	0.000	0.719
						0.7	50			0.59	97			0.8	10		017 13
		MODTI	HBOUND			SOUTH	BOLIND			EASTB	OLIND			WESTE	OLIND		
PM	0	0	0 0	0	0	1	0	0	0	1	0000	0	0	1	0	0	
FIVI	NL	NT	NR	NU	SL	ST	SR	SU	EL	ĒT	ER	EU	WL	WT	WR	wu	TOTAL
4:00 PM	0	0	0	0	11	0	4	0	5	25	0	0	0	18	2	0	65
4:15 PM	Ô	Ö	Ŏ	ő	10	ŏ	6	ő	15	16	Ô	Ô	Ö	11	2	ŏ	60
4:30 PM	Ö	Õ	ő	Ö	7	Õ	3	ő	9	26	Ô	ő	Ö	13	3	ŏ	61
4:45 PM	ō	ō	Ö	ō	5	Ō	7	ō	15	23	Ō	ō	ō	10	2	ō	62
5:00 PM	0	0	0	0	5					24	0	0	0	4	6	0	46
5:15 PM			U	U	5	0	1	0	6		U	U	U				
5:15 PM	0	ō	0	0	5	0	5	0	9	22	Ö	0	0	3	4	0	48
5:30 PM	0	0	•	0	5 9	0	-		9 10	22 19	•				4	0	53
			Ö	0	5	Ō	5	Ō	9	22	Ŏ	Ö	ō	3			
5:30 PM 5:45 PM	0 0 NL	0 0 NT	0 0 0 0	0 0 0	5 9 7	0 0 0 0	5 3 1	0 0 0	9 10 12	22 19 17	0 0 0 0	0 0 0	0 0 0	3 8 4	4 3 WR	0 0 WU	53 44 TOTAL
5:30 PM 5:45 PM TOTAL VOLUMES :	0	0	0 0	0 0 0	5 9 7 SL 59	0 0 0 0 ST 0	5 3 1 SR 30	0 0 0 SU 0	9 10 12 EL 81	22 19 17 ET 172	0 0 0 0	0 0 0 0	0 0 0 WL 0	3 8 4 WT 71	4 3 WR 26	0 0 WU 0	53 44
5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s:	0 0 NL	0 0 NT 0	0 0 0 0 NR 0	0 0 0	5 9 7	0 0 0 0	5 3 1	0 0 0	9 10 12	22 19 17	0 0 0 0	0 0 0	0 0 0	3 8 4	4 3 WR	0 0 WU	53 44 TOTAL 439
5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR:	0 0 NL 0	0 0 NT 0	0 0 0 0 NR 0	0 0 0 NU 0	5 9 7 SL 59 66.29%	0 0 0 ST 0 0.00%	5 3 1 SR 30 33.71%	0 0 0 SU 0 0.00%	9 10 12 EL 81 32.02%	22 19 17 ET 172 67.98%	0 0 0 0 ER 0 0.00%	EU 0 0.00%	0 0 0 WL 0 0.00%	3 8 4 WT 71 73.20%	WR 26 26.80%	0 0 WU 0 0.00%	TOTAL 439
5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s : PEAK HR : PEAK HR VOL :	0 0 0 NL 0	0 0 NT 0 04:00 PM	0 0 0 0 NR 0 - 05:00 PM	0 0 0 NU 0	5 9 7 SL 59 66.29%	0 0 0 0 ST 0 0.00%	SR 30 33.71%	0 0 0 SU 0 0.00%	9 10 12 EL 81 32.02%	22 19 17 ET 172 67.98%	0 0 0 0 ER 0 0.00%	EU 0 0.00%	0 0 0 0 WL 0 0.00%	3 8 4 WT 71 73.20%	WR 26 26.80%	0 0 WU 0 0.00%	53 44 TOTAL 439
5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR:	0 0 NL 0	0 0 NT 0	0 0 0 0 NR 0	0 0 0 NU 0	5 9 7 SL 59 66.29%	0 0 0 ST 0 0.00%	5 3 1 SR 30 33.71%	0 0 0 SU 0 0.00%	9 10 12 EL 81 32.02%	22 19 17 ET 172 67.98%	0 0 0 0 ER 0 0.00%	EU 0 0.00%	0 0 0 WL 0 0.00%	3 8 4 WT 71 73.20%	WR 26 26.80%	0 0 WU 0 0.00%	TOTAL 439

Intersection Turning Movement Count

Location: Ward Ave & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Light Trucks

Project ID: 18-7097-001 Date: 3/27/2018

								Ligit	HUCKS								
NS/EW Streets:		Ward	d Ave			Ward	Ave			Fink	Rd			Fink	Rd		
		NORTH	HBOUND			SOUTH	BOUND			EASTE	OUND			WESTI	BOUND		
AM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
7	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	4
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
8:30 AM	0	0	0	0	1	0	0	0	0	1	0	0	0	2	0	0	4
8:45 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	4	0	0	0	0	6	0	0	0	4	0	0	14
APPROACH %'s:					100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR:		07:30 AM															TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	4
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.375	0.000	0.000	0.000	0.250	0.000	0.000	0.500
										0.3	/5			0.2	50		
		NODTI	HBOUND		1	SOUTH	BOLIND			EASTE	OLIND			WESTI	OUND		
PM	0	0	0 DOUND	0	0	1	0 BOOND	0	0	1 1	OUND	0	0	WEST	0	0	
PIVI	NL	NT	NR.	NU	SL	ST	SR	SU	EL	ĒT	ER.	EU	WL	WT	WR	wu	TOTAL
4:00 PM	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	n	ň	0	0	1	0	0	0	0	n	ň	0	n	0	0	ő	1
4:30 PM	ñ	ő	0	Ö	Ō	0	Ö	o l	Ö	ň	Ŏ	ñ	0	Ô	0	ŏ	Ô
4:45 PM	ñ	ő	ň	0	Ŏ	0	0	o l	1	ň	Ŏ	ñ	ň	Ô	Ö	ŏ	1
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
5:15 PM	ō	Ö	ō	Ö	Ō	Ö	Ō	ō	i	ī	ō	ō	Ö	ō	ō	ō	2
5:30 PM	ō	Ö	ō	Ö	Ō	Ö	Ō	ō	ō	ō	ō	ō	Ö	ō	ō	ō	0
5:45 PM	ō	Ö	ō	Ö	Ō	Ö	Ō	ō	Ö	i	ō	ō	Ö	ō	ō	ō	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	3	0	0	0	2	3	0	0	0	0	1	0	9
APPROACH %'s:					100.00%	0.00%	0.00%	0.00%	40.00%	60.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	
PEAK HR:		04:00 PM															TOTAL
PEAK HR VOL :	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	4
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.375	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500

Intersection Turning Movement Count

Location: Ward Ave & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Medium Trucks

Project ID: 18-7097-001 Date: 3/27/2018

-									HUCK								
NS/EW Streets:		Ward	d Ave			Ward	Ave			Fink	Rd			Fink	Rd		
		NORTI	HBOUND			SOUTH	BOUND			EASTB	OUND			WESTE	BOUND		
AM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
7	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	3
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8:15 AM	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	4
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	3	0	1	1	0	0	0	0	0	0	5
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	4	0	2	4	0	0	0	4	0	0	14
APPROACH %'s :	U	Ü	Ü	•	0.00%	0.00%	100.00%	0.00%	33.33%	66.67%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	1 1
PEAK HR :		07:30 AM	- 08:30 AM		0.0070	010070	10010070	010070	55.5570	00.07 70	0.0070	010070	010070	10010070	010070	0.0070	TOTAL
PEAK HR VOL :	0	0	0	0	0	0	1	0	1	2	0	0	0	4	0	0	8
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.500	0.000	0.000	0.000	0.500	0.000	0.000	
						0.2				0.3				0.50			0.500
		NORTI	HBOUND			SOUTH	BOUND			EASTB	OUND			WESTE	BOUND		
PM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	0 NT	0 NR	NU	SL	1 ST	0 SR	SU	EL	1 ET	0 ER	EU	WL	1 WT	0 WR	WU	TOTAL
4:00 PM	NL 0	O NT O	0 NR 0	NU 0	SL 0	ST 0	O SR O	SU 0	EL 0	1 ET 0	O ER O	EU 0	WL 0	MT 0	0 WR 0	WU 0	0
4:00 PM 4:15 PM	NL 0 0	0 NT 0 0	0 NR 0 0	NU 0 0	SL 0 0	1 ST 0 0	0 SR 0 0	SU 0 0	0 0	1 ET 0 0	0 ER 0 0	0 0	WL 0 0	1 WT 0 0	0 WR	WU 0 0	0
4:00 PM 4:15 PM 4:30 PM	0 0 0	0 NT 0 0	0 NR 0 0	0 0 0	SL 0 0 0	1 ST 0 0 0	0 SR 0 0	SU 0 0 0	EL 0 0 0	1 ET 0 0 0	0 ER 0 0	0 0 0	0 0 0	1 WT 0 0 0	0 WR 0 0	WU 0 0 0	0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0 0 0	0 NT 0 0 0	0 NR 0 0 0	NU 0 0 0 0	SL 0 0 0 0	1 ST 0 0 0	0 SR 0 0 0	SU 0 0 0 0	EL 0 0 0 0	1 ET 0 0 0 0	0 ER 0 0 0	0 0 0 0	WL 0 0 0 0	1 WT 0 0 0 0	0 WR 0 0 0	WU 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	NL 0 0 0 0	0 NT 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0 0 0 0 0	SL 0 0 0 0	1 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	0 ER 0 0 0 0	0 0 0 0 0	WL 0 0 0 0	1 WT 0 0 0	0 WR 0 0	WU 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	0 NT 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0	1 ST 0 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0 0	0 NT 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0	1 ST 0 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	0 NT 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0	1 ST 0 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:43 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0	0 NT 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1
4:00 PM 4:15 PM 4:30 PM 4:30 PM 5:00 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0	0 NT 0 0 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0	1 ST 0 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 1 0 0 0	0 WR 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0
4:00 PM 4:15 PM 4:30 PM 4:43 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s:	NL 0 0 0 0 0 0 0	0 NT 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 1 0 0	0 WR 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s: PEAK HR:	NL 0 0 0 0 0 0 0 0 0	0 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 1 1 0 0 0 WT 1 100.00%	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 TOTAL 1
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR: 1	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s: PEAK HR:	NL 0 0 0 0 0 0 0 0 0	0 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 1 1 0 0 0 WT 1 100.00%	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 TOTAL 1

Intersection Turning Movement Count

Location: Ward Ave & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Project ID: 18-7097-001 Date: 3/27/2018

Heavy Trucks

NS/EW Streets:		War	d Ave			Ward	l Ave			Fink	Rd			Fink	Rd		
0.04			HBOUND				IBOUND		_	EASTE	BOUND			WESTI	BOUND	_	
AM	0 NL	0 NT	0 NR	0 NU	0 SL	1 ST	0 SR	<mark>0</mark> SU	0 EL	1 ET	0 ER	0 EU	0 WL	1 WT	0 WR	0 WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	3
7:15 AM	0	0	0	0	0	0	1	0	1	0	0	0	0	4	0	0	6
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	6	0	0	7
7:45 AM	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	10
8:00 AM	0	0	0	0	0	0	1	0	0	2	0	0	0	3	0	0	6
8:15 AM	0	0	0	0	0	0	0	0	0	3	0	0	0	5	0	0	8
8:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	4
8:45 AM	0	0	0	0	0	0	0	0	0	3	0	0	0	4	0	0	7
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	0	0	2	0	1	18	0	0	0	30	0	0	51
APPROACH %'s:					0.00%	0.00%	100.00%	0.00%	5.26%	94.74%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :			- 08:30 AM														TOTAL
PEAK HR VOL:	0	0	0	0	0	0	1	0	0	11	0	0	0	19	0	0	31
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.550 0.5	0.000	0.000	0.000	0.792 0.7	0.000	0.000	0.775
						0.2	.50			0.5	50			0.7	92		
		NORT	HBOUND			SOUTH	IBOUND			EASTE	BOUND			WESTI	BOUND		
PM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	3
4:30 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
4:45 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	4
5:00 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	2	0	0	6
5:15 PM	0	0	0	0	0	0	0	0	0	5	0	0	0	2	0	0	7
5:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES : APPROACH %'s :	0	0	0	0	0	0	0	0	1 5.00%	19 95.00%	0 0.00%	0 0.00%	0 0.00%	9 100.00%	0 0.00%	0 0.00%	29
PEAK HR:		04:00 PM	- 05:00 PM						3.00%	53.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0		0	0	0	0	3	0		12
				U	U	0	0	0	0	9	0	0	U	3	U	0	12

Intersection Turning Movement Count

City: Crows Landing
Control: 1-Way Stop (NB) Project ID: 18-7097-002 Date: 3/27/2018

_								To	tal								
NS/EW Streets:	Inte	erstate 5 (I-	-5) NB Ramı	ps	Int	erstate 5 (I	-5) NB Ran	nps		Fink	Rd			Fink	Rd		
		NORTH	IBOUND			SOUTH	HBOUND			EASTB	OUND			WESTE	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
,	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	3	7	0	0	0	0	0	0	4	0	0	0	11	4	0	29
7:15 AM	0	3	5	Ó	0	0	0	0	0	2	0	0	0	20	7	0	37
7:30 AM	1	0	16	0	0	0	0	0	0	6	0	0	0	21	4	0	48
7:45 AM	0	1	4	0	0	0	0	0	1	9	0	0	0	16	8	0	39
8:00 AM	3	2	0	0	0	0	0	0	1	6	0	0	0	19	11	0	42
8:15 AM	0	2	6	0	0	0	0	0	2	15	0	0	0	18	4	0	47
8:30 AM	0	1	6	0	0	0	0	0	0	8	0	0	0	15	6	0	36
8:45 AM	0	1	7	0	0	0	0	0	2	11	0	0	0	18	6	0	45
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	4	13	51	0	0	0	0	0	6	61	0	0	0	138	50	0	323
APPROACH %'s:	5.88%	19.12%	75.00%	0.00%					8.96%	91.04%	0.00%	0.00%	0.00%	73.40%	26.60%	0.00%	
PEAK HR:		07:30 AM -															TOTAL
PEAK HR VOL:	4	5	26	0	0	0	0	0	4	36	0	0	0	74	27	0	176
PEAK HR FACTOR :	0.333	0.625	0.406	0.000	0.000	0.000	0.000	0.000	0.500	0.600	0.000	0.000	0.000	0.881	0.614	0.000	0.917
		0.5	15							0.58	38			0.8	42		****
											011110						
		NORTH	IBOUND			SOUTH	HBOUND			EASTB	UUND			WESTE	BOUND		
PM	0	NORTH 1	IBOUND 0	0	0	SOUTH 0	HBOUND 0	0	0	EASTB 1	OUND 0	0	0	WESTE 1	OUND 0	0	
PM	0 NL			0 NU	0 SL			0 SU	0 EL	EASTB 1 ET		0 EU	0 WL	1 WT		0 WU	TOTAL
4:00 PM		1	0			0	0			1	0			1	0		TOTAL 53
4:00 PM 4:15 PM	NL	1 NT	0 NR	NU	SL	0 ST 0 0	0 SR	SU	EL	1 ET	0 ER	EU	WL	1 WT	0 WR 5 2	WU	53 53
4:00 PM 4:15 PM 4:30 PM	NL 0	1 NT 0 2 0	0 NR 17 20 25	NU 0	SL 0	0 ST 0 0 0	0 SR 0 0	SU 0	EL 2	1 ET 11 13 14	0 ER 0	EU 0	WL 0	1 WT 18 16 14	0 WR 5 2 2	WU 0	53 53 55
4:00 PM 4:15 PM 4:30 PM 4:45 PM	0 0	1 NT 0 2 0 0	0 NR 17 20 25 26	NU 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0	0 SR 0 0 0	SU 0 0 0 0	EL 2 0 0 2	1 ET 11 13 14 17	0 ER 0 0 0	0 0 0 0	WL 0 0 0 0	1 WT 18 16 14 12	0 WR 5 2 2 5	WU 0 0 0 0	53 53 55 62
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	NL 0 0 0	1 NT 0 2 0 0	0 NR 17 20 25 26 18	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0	EL 2 0 0	1 ET 11 13 14 17	0 ER 0 0	0 0 0	WL 0 0 0 0	1 WT 18 16 14 12 4	0 WR 5 2 2 5	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 53 55 62 44
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	1 NT 0 2 0 0 0	0 NR 17 20 25 26 18 17	NU 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0	EL 2 0 0 2 2 0 1	1 ET 11 13 14 17 17 21	0 ER 0 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0	1 WT 18 16 14 12 4 8	0 WR 5 2 2 5 4 3	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 53 55 62 44 52
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0 1 0	1 NT 0 2 0 0 0 2 1	0 NR 17 20 25 26 18 17 14	NU 0 0 0 0 0 0	SL 0 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0	EL 2 0 0 2 2 0 1 0 0	1 ET 11 13 14 17 17 21 15	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0	WL 0 0 0 0 0	1 WT 18 16 14 12 4 8 6	0 WR 5 2 2 5 4 3 5	WU 0 0 0 0 0	53 53 55 62 44 52 41
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	1 NT 0 2 0 0 0	0 NR 17 20 25 26 18 17	NU 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0	EL 2 0 0 2 2 0 1	1 ET 11 13 14 17 17 21	0 ER 0 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0	1 WT 18 16 14 12 4 8	0 WR 5 2 2 5 4 3	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 53 55 62 44 52
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0 1 0	1 NT 0 2 0 0 0 2 1	0 NR 17 20 25 26 18 17 14	NU 0 0 0 0 0 0	SL 0 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0	EL 2 0 0 2 2 0 1 0 0	1 ET 11 13 14 17 17 21 15 15	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0	WL 0 0 0 0 0	1 WT 18 16 14 12 4 8 6	0 WR 5 2 2 5 4 3 5 4	WU 0 0 0 0 0	53 53 55 62 44 52 41
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 1 0 0	1 NT 0 2 0 0 0 2 1 2	0 NR 17 20 25 26 18 17 14 17	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 2 0 0 0 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 11 13 14 17 17 17 21 15 15	0 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0	1 WT 18 16 14 12 4 8 6 3	0 WR 5 2 2 5 4 3 5 4	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 53 55 62 44 52 41 41
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 1 0 0 0 0 NL 1 0.62%	1 NT 0 2 0 0 0 2 1 2 NT 7 4.32%	0 NR 17 20 25 26 18 17 14 17 NR 154 95.06%	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 2 0 0 2 0 1 0 0 0 0 EL	1 ET 11 13 14 17 17 21 15 15	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 18 16 14 12 4 8 6 3	0 WR 5 2 2 5 4 3 5 4	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 53 55 62 44 52 41 41 TOTAL 401
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s :	NL 0 0 0 0 1 0 0 0 0 NL 1 0.62%	1 NT 0 2 0 0 0 2 1 2 NT 7	0 NR 17 20 25 26 18 17 14 17 NR 154 95.06%	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 2 0 0 2 0 1 0 0 0 EL 5	1 ET 11 13 14 17 17 21 15 15 15	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0	1 WT 18 16 14 12 4 8 6 3 WT 81	0 WR 5 2 2 5 4 3 5 4 WR 30	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 53 55 62 44 52 41 41
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 1 0 0 0 0 NL 1 0.62%	1 NT 0 2 0 0 0 2 1 2 1 2 NT 7 4.32%	0 NR 17 20 25 26 18 17 14 17 NR 154 95.06% 05:00 PM 88	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 2 0 0 2 0 1 1 0 0 0 EL 5 3.91%	1 ET 11 13 14 17 21 15 15 15 ET 123 96.09%	0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 18 16 14 12 4 8 6 3 WT 81 72.97%	0 WR 5 2 2 5 4 3 5 4 WR 30 27.03%	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 53 55 62 44 52 41 41 TOTAL 401
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s :	NL 0 0 0 0 1 0 0 0 NL 1 0.62%	1 NT 0 2 0 0 0 2 1 2 NT 7 4.32%	0 NR 17 20 25 26 18 17 14 17 NR 154 95.06% 05:00 PM 88 0.846	NU 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 2 0 0 2 2 0 1 0 0 0 0 EL 5 3.91%	1 ET 11 13 14 17 17 21 15 15 15 ET 123 96.09%	0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 18 16 14 12 4 8 6 3 WT 81 72.97%	0 WR 5 2 2 5 4 3 5 4 WR 30 27.03%	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 53 55 62 44 52 41 41 TOTAL 401

Intersection Turning Movement Count

Location: Interstate 5 (I-5) NB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (NB)

Passenger Vehicles

Project ID: 18-7097-002 Date: 3/27/2018

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NS/EW Streets:	Inte	erstate 5 (I-	-5) NB Ramp	os	Int	erstate 5 (1	-5) NB Ran	nps		Fink	Rd			Fink	Rd		
		NORTH	IBOUND			SOUTI	HBOUND			EASTB	OUND			WESTE	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	5	0	0	0	0	0	0	4	0	0	0	10	4	0	23
7:15 AM	0	0	4	0	0	0	0	0	0	2	0	0	0	15	6	0	27
7:30 AM	1	0	15	0	0	0	0	0	0	4	0	0	0	15	3	0	38
7:45 AM	0	0	4	0	0	0	0	0	1	4	0	0	0	11	6	0	26
8:00 AM	1	0	0	0	0	0	0	0	1	4	0	0	0	16	9	0	31
8:15 AM	0	0	6	0	0	0	0	0	1	7	0	0	0	13	3	0	30
8:30 AM	0	0	6	0	0	0	0	0	0	5	0	0	0	13	3	0	27
8:45 AM	0	0	6	0	0	0	0	0	0	4	0	0	0	13	4	0	27
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	2	0	46	0	0	0	0	0	3	34	0	0	0	106	38	0	229
APPROACH %'s:	4.17%	0.00%	95.83%	0.00%					8.11%	91.89%	0.00%	0.00%	0.00%	73.61%	26.39%	0.00%	
PEAK HR:	(07:30 AM -	08:30 AM														TOTAL
PEAK HR VOL:	2	0	25	0	0	0	0	0	3	19	0	0	0	55	21	0	125
PEAK HR FACTOR :	0.500	0.000	0.417	0.000	0.000	0.000	0.000	0.000	0.750	0.679	0.000	0.000	0.000	0.859	0.583	0.000	0.822
		0.4	22							0.68	38			0.70	60		0.022
																	0.622
D04		NORTH	IBOUND		_		HBOUND			0.68 EASTB	OUND	_	_	WESTE	BOUND	_	0.622
PM	0	NORTH 1	IBOUND 0	0	0	0	0	0	0	EASTB 1	OUND 0	0	0	WESTE	BOUND 0	0	
	NL	NORTH 1 NT	IBOUND 0 NR	NU	SL	0 ST	0 SR	SU	0 EL	EASTB 1 ET	OUND 0 ER	EU	WL	WESTE 1 WT	BOUND 0 WR	WU	TOTAL
4:00 PM	NL 0	NORTH 1	IBOUND 0 NR 17	NU 0	SL 0	0 ST 0	0 SR 0	SU 0	0 EL 2	EASTB 1 ET 11	OUND 0 ER 0	EU 0	WL 0	WESTE 1 WT 18	BOUND 0 WR 4	WU 0	TOTAL 52
4:00 PM 4:15 PM	NL 0 0	NORTH 1 NT 0 1	1BOUND 0 NR 17 19	0 0	SL 0 0	0 ST 0 0	0 SR 0 0	SU 0 0	0 EL 2 0	EASTB 1 ET 11 12	OUND 0 ER	0 0	0 0	WESTE 1 WT 18 16	BOUND 0 WR 4 1	0 0	TOTAL 52 49
4:00 PM 4:15 PM 4:30 PM	NL 0 0 0	NORTH 1 NT 0 1	1BOUND 0 NR 17 19 23	NU 0 0 0	SL 0 0 0	0 ST 0 0	0 SR 0 0	SU 0 0 0	0 EL 2 0	EASTB 1 ET 11 12 12	OUND 0 ER 0 0	0 0 0	WL 0 0 0	WESTE 1 WT 18 16 14	BOUND 0 WR 4 1	0 0 0	TOTAL 52 49 51
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0	NORTH 1 NT 0 1 0 0	1BOUND 0 NR 17 19 23 23	NU 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0	0 SR 0 0 0	SU 0 0 0 0	0 EL 2 0 0	EASTB 1 ET 11 12 12 16	OUND 0 ER 0 0 0	0 0 0 0	WL 0 0 0 0	WESTE 1 WT 18 16 14 12	80UND 0 WR 4 1 2	0 0 0 0	TOTAL 52 49 51 57
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	NL 0 0 0 0 0	NORTH 1 NT 0 1 0 0	IBOUND 0 NR 17 19 23 23 14	NU 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0	0 EL 2 0 0 2	EASTB 1 ET 11 12 12 16 15	OUND 0 ER 0 0 0	0 0 0 0 0	WL 0 0 0 0	WESTE 1 WT 18 16 14 12 3	BOUND 0 WR 4 1 2 4 3	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0 1	NORTH 1 NT 0 1 0 0 0	BOUND 0 NR 17 19 23 23 14 15	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0	EASTB 1 ET 11 12 12 16 15 17	OUND 0 ER 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0	WESTE 1 WT 18 16 14 12 3 6	30UND 0 WR 4 1 2 4 3 2	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0 1 0	NORTH 1 NT 0 1 0 0 0 2 1	BOUND 0 NR 17 19 23 23 14 15 13	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0 1	EASTB 1 ET 11 12 12 16 15 17 15	OUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0	WL 0 0 0 0 0	WESTE 1 WT 18 16 14 12 3 6 6	30UND 0 WR 4 1 2 4 3 2 5	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43 40
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0 1	NORTH 1 NT 0 1 0 0 0	BOUND 0 NR 17 19 23 23 14 15	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0	EASTB 1 ET 11 12 12 16 15 17	OUND 0 ER 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0	WESTE 1 WT 18 16 14 12 3 6 6 3 3	BOUND 0 WR 4 1 2 4 3 2 5 5 2	WU 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43 40 35
4:00 PM 4:15 PM 4:30 PM 4:43 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 1 0 0 0 2 1 0 NT	IBOUND 0 NR 17 19 23 23 14 15 13 16 NR	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0 1 0 0	EASTB 1 ET 11 12 12 12 16 15 17 15 14	OUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 18 16 14 12 3 6 6 6 3 WT	80UND 0 WR 4 1 2 4 3 2 5 2	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43 40 35
4:00 PM 4:15 PM 4:30 PM 4:30 PM 5:00 PM 5:00 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 1 0 0 2 1 0 NT 4	1BOUND 0 NR 17 19 23 23 14 15 13 16	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0 1 0 0	EASTB 1 ET 11 12 12 16 15 17 15 14 ET 112	OUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0	WESTE 1 WT 18 16 14 12 3 6 6 6 3 WT 78	BOUND 0 WR 4 1 2 4 3 2 5 2 WR 23	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43 40 35
4:00 PM 4:15 PM 4:30 PM 4:30 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s :	NL 0 0 0 0 0 1 0 0 0 0 0 0 NL 1 0.69%	NORTH 1 NT 0 1 0 0 2 1 0 NT 4 2.76%	IBOUND 0 NR 17 19 23 23 14 15 13 16 NR 140 96.55%	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0 1 0 0	EASTB 1 ET 11 12 12 12 16 15 17 15 14	OUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 18 16 14 12 3 6 6 6 3 WT	80UND 0 WR 4 1 2 4 3 2 5 2	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43 40 35 TOTAL 363
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s : PEAK HR :	NL 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 1 0 0 0 2 1 0 NT 4 2.76% 04:00 PM -	IBOUND 0 NR 17 19 23 23 14 15 13 16 NR 140 96.55% 05:00 PM	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0 1 0 0 0 2 0 0 1 0 0 0 0	EASTE 1 1 1 1 2 1 2 1 1 6 1 5 1 7 1 5 1 4 ET 1 1 1 2 95.73%	OUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 1 18 16 14 12 3 6 6 6 3 WT 78 77.23%	30UND 0 WR 4 1 2 4 4 3 2 5 5 2 WR 23 22.77%	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43 40 35 TOTAL 363
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR: 1	NL 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 1 0 0 0 0 2 1 0 NT 4 2,276% 04:00 PM -	BOUND 0 NR 17 19 23 23 14 15 13 16 NR 140 96.55% 82	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0 1 0 0 1 0 0 EL 5 4.27%	EASTE 1 11 12 12 16 15 17 15 14 ET 112 95.73%	OUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 18 16 14 12 3 6 6 3 3 WT 78 77.23%	30UND 0 WR 4 1 2 4 3 3 2 5 5 2 WR 23 22.77%	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43 40 35 TOTAL 363
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s : PEAK HR :	NL 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 1 0 0 0 2 1 0 NT 4 2.76% 04:00 PM -	IBOUND 0 NR 17 19 23 23 24 15 13 16 NR 140 96.55% 05:00 PM 82 0.891	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 2 0 0 2 0 1 0 0 0 2 0 0 1 0 0 0 0	EASTE 1 1 1 1 2 1 2 1 1 6 1 5 1 7 1 5 1 4 ET 1 1 1 2 95.73%	OUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 1 18 16 14 12 3 6 6 6 3 WT 78 77.23%	30UND 0 WR 4 1 1 2 4 3 2 5 5 2 WR 23 22.77% 11 0.688	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 52 49 51 57 36 43 40 35 TOTAL 363

Intersection Turning Movement Count

Location: Interstate 5 (I-5) NB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (NB)

Light Trucks

Project ID: 18-7097-002 Date: 3/27/2018

_								Light '	<u> Trucks</u>								_
NS/EW Streets:	Inte	erstate 5 (I-	-5) NB Ramı	os	Int	terstate 5 (I	I-5) NB Ran	nps		Fink	Rd			Fink	Rd		
		NORTH	HBOUND			SOUTI	HBOUND			EASTE	BOUND			WEST	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	3
8:45 AM	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	3
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	1	0	1	0	0	0	0	0	2	5	0	0	0	3	1	0	13
APPROACH %'s:	50.00%	0.00%	50.00%	0.00%	ı				28.57%	71.43%	0.00%	0.00%	0.00%	75.00%	25.00%	0.00%	
PEAK HR:		07:30 AM -	- 08:30 AM														TOTAL
PEAK HR VOL:	1	0	0	0	0	0	0	0	1	3	0	0	0	1	0	0	6
PEAK HR FACTOR:	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.375	0.000	0.000	0.000	0.250	0.000	0.000	0.500
		0.2	250							0.3	33			0.2	50		0.300
		NODTL	HBOUND			COLITI	HBOUND			EACTE	BOUND			WECT	BOUND		1
PM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
FIVI	NL	NT	NR	NU	SL	ST	SR	SU	EL	ĒT	ER	EU	WL	WT	WR	wu	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	Ö	0	Ŏ	0	0	Ŏ	0	0	0
4:30 PM	n	0	0	0	0	0	0	0	Ö	0	ň	0	0	Ů	0	0	0
4:45 PM	ň	ň	1	ő	0	Ö	Ô	ŏ	ŏ	ő	ő	o l	ő	ň	ő	ŏ	ľ
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:15 PM	Õ	ŏ	1	Õ	ő	Ö	ő	ŏ	Ŏ	ī	ň	Õ	ő	ň	ő	ŏ	2
5:30 PM	Õ	ŏ	ō	ŏ	ő	Ö	Ö	ŏ	Ŏ	ō	ő	Ö	ő	ŏ	Ö	ŏ	l 5
5:45 PM	Ō	Ō	ō	Ō	Ō	Ō	ō	Ō	Ō	1	ō	Ō	Ō	Ō	ō	Ō	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES : APPROACH %'s :	0 0.00%	0 0.00%	2 100.00%	0 0.00%	0	0	0	0	0 0.00%	3 100.00%	0 0.00%	0 0.00%	0	0	0	0	5
PEAK HR :		0.00% 04:00 PM -		0.00%					0.00%	100.00%	0.00%	0.00%					TOTAL
				0	0	0	0	0	0	0	0	0	0	0	0	_	
PEAK HR VOL :	0 0.00	0.000	1 0.250	0.000	0.000	0 0.000	0 0.000	0.000	0 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
PEAK HR FACTOR :																	
	0.00	0.2		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250

Intersection Turning Movement Count

Location: Interstate 5 (I-5) NB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (NB)

Project ID: 18-7097-002 Date: 3/27/2018

Medium Trucks

_																	
NS/EW Streets:	Int	erstate 5 (I	-5) NB Ram	ps	Int	terstate 5 ([-5) NB Ran	nps		Fink	Rd			Fink	Rd		
		NORTH	IBOUND			SOLITI	HBOUND			FASTE	BOUND			WESTE	BOLIND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
Aivi	NL	NT	NR	NU	SL	ST	SR	SU	ĔĹ	ĒT	ER	EU	WL	wT	WR	wu	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	3
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	- 0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
8:15 AM	0	0	0	0	0	0	0	0	0	Ü	0	0	0	2	0	0	4
8:15 AM 8:30 AM							0	0		2	0		0				
	0	0	0	0	0	0	•		0	1	•	0		0	0	0	1 7
8:45 AM	0	0	0	0	0	0	0	0	1	3	0	0	0	3	0	0	/
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	1	0	1	0	0	0	0	0	1	6	0	0	0	7	1	0	17
APPROACH %'s:	50.00%	0.00%	50.00%	0.00%					14.29%	85.71%	0.00%	0.00%	0.00%	87.50%	12.50%	0.00%	
PEAK HR :		07:30 AM -	08:30 AM														TOTAL
PEAK HR VOL:	1	0	1	0	0	0	0	0	0	2	0	0	0	4	1	0	9
PEAK HR FACTOR:	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.500	0.250	0.000	0.563
		0.5	00							0.2	50			0.6	25		0.303
		NORTI	BOUND			00117	IDOLIND			FACTE	NOUND.			WEGT	OUIND.		
DNA	_		IBOUND				HBOUND		_		BOUND			WESTE		_	
PM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	TOT.
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL VOLUMES :	0								·	-	•	~					
TOTAL VOLUMES : APPROACH %'s :	0	U	U	U	ŭ								0.00%	100.00%	0.00%	0.00%	
APPROACH %'s:	_			U									0.00%	100.00%	0.00%	0.00%	TOTAL
APPROACH %'s: PEAK HR:	-	04:00 PM -	05:00 PM			0	0	0	0	0	0	0					TOTAL 0
APPROACH %'s:	_			0 0.000	0	0 0.000	0	0 0.000	0	0 0.000	0 0.000	0 0.000	0.00% 0 0.000	0 0.000	0.00% 0 0.000	0.00% 0 0.000	TOTAL 0

Intersection Turning Movement Count

Location: Interstate 5 (I-5) NB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (NB)

Project ID: 18-7097-002 Date: 3/27/2018

	_	
 eavv	Тин	CVC

NS/EW Streets:	Inte	erstate 5 (I	-5) NB Ram	ps	Int	erstate 5 ([-5) NB Ran	nps		Fink	Rd			Fink	Rd		
		NORTH	IBOUND			SOUT	HBOUND			EASTE	OUND			WEST	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
7.1101	NL	NT	NR	NU	SL	ST	SR	SU	ĔĹ	ĒŤ	ER	EU	WL	ŴΤ	WR	WU	TOTAL
7:00 AM	0	3	2	0	0	0	0	0	0	0	0	0	0	1	0	0	6
7:15 AM	ő	3	1	ŏ	0	Õ	ŏ	Ö	ŏ	ň	ŏ	ñ	ň	4	1	Õ	ŏ
7:30 AM	ň	Ô	ō	Õ	0	Õ	ŏ	Õ	ŏ	1	ŏ	Õ	ň	3	î	Õ	5
7:45 AM	ň	1	ŏ	Õ	0	ň	ŏ	Õ	ŏ	ŝ	ŏ	Õ	ň	5	2	Õ	13
8:00 AM	0	2	0	0	0	0	0	0	0	2	0	0	0	3	1	0	8
8:15 AM	ň	2	Ö	Õ	0	Õ	Õ	Ö	ŏ	4	ŏ	Õ	ő	3	î	Õ	10
8:30 AM	ő	ī	Ö	Ö	0	Õ	ŏ	Ö	ŏ	i i	ŏ	ŏ	ő	1	2	Ö	5
8:45 AM	Ô	i	Ô	Õ	0	Ô	Ô	Ô	0	3	Ô	ő	ő	2	2	Ô	8
0. 15 Al-1									Ů			_				_	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	13	3	0	0	0	0	0	0	16	0	0	0	22	10	0	64
APPROACH %'s:	0.00%	81.25%	18.75%	0.00%					0.00%	100.00%	0.00%	0.00%	0.00%	68.75%	31.25%	0.00%	
PEAK HR :	-	07:30 AM -	08:30 AM														TOTAL
PEAK HR VOL:	0	5	0	0	0	0	0	0	0	12	0	0	0	14	5	0	36
PEAK HR FACTOR :	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.600	0.000	0.000	0.000	0.700	0.625	0.000	0.692
		0.6	25							0.6	00			0.6	79		0.092
		NODTL	IBOUND			COLIT	HBOUND			EASTE	OUND			WECT	BOUND		
PM	0	1	0	0	0	0	0 0	0	0	EASIE	0	0	0	WESII	0	0	
PIVI	NL	NT	NR.	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0 0	0	0	0	0 0	0	SK	0	0 0	0	EK	0	0	0	1 VVK	0	TOTAL
4:15 PM	0	1	1	0	0	0	0	0	0	1	0	0	0	0	i	0	4
4:30 PM	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	4
4:45 PM	0	0	2	0	0	0	0	Ö	0	1	0	0	0	0	1	0	4
5:00 PM	0	<u> </u>	4	0	0	0	<u>``</u>	0	0	1	<u>``</u>	0	0	1	1	0	7
5:15 PM	0	0	1	0	0	0	0	0	0	3	0	0	0	1	1	0	6
5:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	2	0	5
5.75 111	U	2	1	U		U	U	U		U	U	U		U	2	U	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	3	12	0	0	0	0	0	0	8	0	0	0	2	7	0	32
APPROACH %'s:	0.00%	20.00%	80.00%	0.00%					0.00%	100.00%	0.00%	0.00%	0.00%	22.22%	77.78%	0.00%	
PEAK HR:		04:00 PM -															TOTAL
PEAK HR VOL:	0	1	5	0	0	0	0	0	0	4	0	0	0	0	3	0	13
PEAK HR FACTOR :	0.00	0.250	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.750	0.000	

Intersection Turning Movement Count

Location: I-5 SB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Project ID: 18-7097-003
Date: 3/27/2018

_								To	tal								_
NS/EW Streets:		I-5 SB	Ramps			I-5 SB R	tamps			Fink	Rd			Fink	Rd		
		NORTH	HBOUND			SOUTH	BOUND			EASTB	OUND			WESTE	OUND	$\overline{}$	
AM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	3	0	0	0	0	0	0	0	12	1	0	0	16
7:15 AM	0	0	0	0	2	0	0	0	0	0	0	0	12	4	0	0	18
7:30 AM	0	0	0	0	5	1	2	0	0	1	0	0	13	11	0	0	33
7:45 AM	0	0	0	0	6	1	1	0	0	5	1	0	4	7	0	0	25
8:00 AM	0	0	0	0	5	2	0	0	0	1	0	0	17	11	0	0	36
8:15 AM	0	0	0	0	7	0	1	0	0	10	0	0	10	6	0	0	34
8:30 AM	0	0	0	0	5	0	1	0	0	3	2	0	12	5	0	0	28
8:45 AM	0	0	0	0	6	0	0	0	0	8	2	0	11	7	0	0	34
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES : APPROACH %'s :	0	0	0	0	39 81.25%	4 8.33%	5 10.42%	0 0.00%	0 0.00%	28 84.85%	5 15.15%	0 0.00%	91 63.64%	52 36.36%	0 0.00%	0.00%	224
PEAK HR:		08:00 AM	- 09:00 AM														TOTAL
PEAK HR VOL :	0	0	0	0	23	2	2	0	0	22	4	0	50	29	0	0	132
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.821	0.250	0.500	0.000	0.000	0.550	0.500	0.000	0.735	0.659	0.000	0.000	0.917
						0.84	14			0.65	50			0.70)5		0.917
		NODTL	HBOUND			SOUTH	DOLIND			EASTB	OLIND			WESTE	OUND		
PM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	1
1 171	NL	NT	NR	NU	SL	ST	SR	SU	EL	ĒT	ER	EU	WL	WT	WR	wu I	TOTAL
4:00 PM	0	0	0	0	6	0	2	0	0	8	6	0	14	4	0	0	40
4:15 PM	ñ	ů.	ő	Ô	11	Ŏ	ō	o l	ő	1	2	0	13	,	ő	ŏ	29
4:30 PM	ñ	ő	ŏ	Ö	7	1	Ö	ő	Ŏ	7	ō	ŏ	15	ō	Ö	ŏ	30
4:45 PM	Õ	ő	ŏ	Ö	ii	2	1	ő	Ŏ	8	Ö	ŏ	8	3	Ö	ŏ	33
5:00 PM	0	0	0	0	15	0	0	0	0	3	0	0	6	0	0	0	24
5:15 PM	ō	ō	ō	Ō	16	Ö	ō	ō	Ö	5	i	ō	8	Ō	ō	ō	30
5:30 PM	ō	ō	ō	ō	14	i	1	ō	Ö	2	ī	ō	6	ō	ō	ō	25
5:45 PM	Ō	Ō	Ō	Ö	14	1	Ō	Ö	Ō	0	Ō	Ō	3	Ō	Ö	ō	18
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	94	5	4	0	0	34	10	0	73	9	0	0	229
APPROACH %'s:					91.26%	4.85%	3.88%	0.00%	0.00%	77.27%	22.73%	0.00%	89.02%	10.98%	0.00%	0.00%	1
PEAK HR:		04:00 PM	- 05:00 PM														TOTAL
PEAK HR VOL :	0	0	0	0	35	3	3	0	0	24	8	0	50	9	0	0	132
PEAK HR FACTOR:										27					U		

Intersection Turning Movement Count

Location: I-5 SB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Passenger Vehicles

Project ID: 18-7097-003 Date: 3/27/2018

_							Pas	senge	r Vehic	les							
NS/EW Streets:		I-5 SB	Ramps			I-5 SB F	Ramps			Fink	Rd			Fink	Rd		
		NORTI	HBOUND			SOUTH	BOUND			EASTE	OUND			WESTE	BOUND		
AM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	3	0	0	0	0	0	0	0	11	1	0	0	15
7:15 AM	0	0	0	0	2	0	0	0	0	0	0	0	10	2	0	0	14
7:30 AM	0	0	0	0	4	0	1	0	0	0	0	0	10	7	0	0	22
7:45 AM	0	0	0	0	4	0	0	0	0	2	1	0	3	6	0	0	16
8:00 AM	0	0	0	0	3	0	0	0	0	1	0	0	15	5	0	0	24
8:15 AM	0	0	0	0	5	0	0	0	0	3	0	0	10	2	0	0	20
8:30 AM	0	0	0	0	4	0	0	0	0	1	2	0	9	5	0	0	21
8:45 AM	0	0	0	0	3	0	0	0	0	2	2	0	11	2	0	0	20
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	28	0	1	0	0	9	5	0	79	30	0	0	152
APPROACH %'s:					96.55%	0.00%	3.45%	0.00%	0.00%	64.29%	35.71%	0.00%	72.48%	27.52%	0.00%	0.00%	
PEAK HR :		08:00 AM	- 09:00 AM														TOTAL
PEAK HR VOL :	0	0	0	0	15	0	0	0	0	7	4	0	45	14	0	0	85
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.583	0.500	0.000	0.750	0.700	0.000	0.000	0.885
						0.7	50			0.6	88			0.73	38		0.005
		NORT	HBOUND			SOUTH	BOLIND			EASTE	ROLIND			WESTE	ROLIND		
PM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
1 171	ŇL	NT	NR	NU	SL	ST	SR	SU	EL	ĒŤ	ER	EU	WL	ŴŤ	WR	WU	TOTAL
4:00 PM	0	0	0	0	6	0	2	0	0	8	5	0	14	4	0	0	39
4:15 PM	0	0	0	0	10	0	0	0	0	1	1	0	13	2	0	0	27
4:30 PM	0	0	0	0	5	1	0	0	0	7	0	0	15	0	0	0	28
4:45 PM	0	0	0	0	10	2	1	0	0	8	0	0	8	3	0	0	32
5:00 PM	0	0	0	0	14	0	0	0	0	2	0	0	5	0	0	0	21
5:15 PM	0	0	0	0	12	0	0	0	0	5	1	0	6	0	0	0	24
5:30 PM	0	0	0	0	14	1	1	0	0	2	1	0	6	0	0	0	25
5:45 PM	0	0	0	0	13	0	0	0	0	0	0	0	3	0	0	0	16
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	84	4	4	0	0	33	8	0	70	9	0	0	212
APPROACH %'s:					91.30%	4.35%	4.35%	0.00%	0.00%	80.49%	19.51%	0.00%	88.61%	11.39%	0.00%	0.00%	
PEAK HR:			- 05:00 PM														TOTAL
PEAK HR VOL:	0	0	0	0	31	3	3	0	0	24	6	0	50	9	0	0	126
	0.00	0.000	0.000		0.775	0.375	0.375										
PEAK HR FACTOR:	0.00	0.000	0.000	0.000	0.775	0.373		0.000	0.000	0.750	0.300	0.000	0.833	0.563	0.000	0.000	0.808

Intersection Turning Movement Count

Location: I-5 SB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Light Trucks

Project ID: 18-7097-003 Date: 3/27/2018

_								Lignt	I rucks								i
NS/EW Streets:		I-5 SB	Ramps			I-5 SB F	Ramps			Fink	Rd			Fink	Rd		
		NORTI	HBOUND			SOUTH	BOUND			EASTE	BOUND			WESTI	BOUND		
AM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
7:30 AM 7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:45 AM 8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	1 1
8:15 AM	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	3
8:30 AM	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	3
8:45 AM	0	0	0	0	i	0	0	n	0	1	0	n	0	n	0	0	2
0. 13 AI1	·	•	·	•	-	•	·	•	·	-	·	•		•	·	·	_
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	5	0	2	0	0	2	0	0	3	1	0	0	13
APPROACH %'s:					71.43%	0.00%	28.57%	0.00%	0.00%	100.00%	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	
PEAK HR :			- 09:00 AM														TOTAL
PEAK HR VOL :	0	0	0	0	4	0	1	0	0	2	0	0	1	1	0	0	9
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.500	0.000	0.250	0.000	0.000	0.500	0.000	0.000	0.250	0.250	0.000	0.000	0.750
						0.6	25			0.5	00			0.5	00		
		NORTI	HBOUND			SOUTH	ROLIND			EASTE	ROLIND			WEST	BOUND		
PM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	3
APPROACH %'s:					100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%					
PEAK HR :		04:00 PM															TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Intersection Turning Movement Count

Location: I-5 SB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

Medium Trucks

NS/EW Streets:		I-5 SB	Ramps			I-5 SB F	Ramps			Fink	Rd			Fink	Rd		1
		NORTH	HBOUND			SOUTH	BOUND			EASTB	OUND			WESTI	BOUND		
AM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8:15 AM	0	0	0	0	0	0	1	0	0	2	0	0	0	2	0	0	5
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	1	0	0	0	0	3	0	0	0	3	0	0	7
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	1	0	1	0	0	6	0	0	0	8	0	0	16
APPROACH %'s:					50.00%	0.00%	50.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :		08:00 AM	- 09:00 AM													\neg	TOTAL
PEAK HR VOL:	0	0	0	0	1	0	1	0	0	6	0	0	0	6	0	0	14
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.500	0.000	0.000	0.000	0.500	0.000	0.000	0.500
						0.5	00			0.50	00			0.5	00		
		NORTH	HBOUND			SOUTH	BOUND			EASTB	OUND			WESTI	BOUND		
PM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
4:15 PM	Ó	0	Ó	Ó	0	0	0	0	0	0	0	0	Ó	0	0	0	0
4·30 PM	ñ	ō	Ó	ó	Ó	Ò	Ó	Ó	Ó	Ó	Ò	Ó	Ó	Ó	Ó	ò	0

		NORTI	HBOUND			SOUTI	HBOUND			EASTI	BOUND			WESTE	BOUND		
PM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES : APPROACH %'s :	0	0	0	0	0	0	0	0	0 0.00%	0 0.00%	1 100.00%	0 0.00%	1 100.00%	0 0.00%	0 0.00%	0 0.00%	2
PEAK HR:		04:00 PM	- 05:00 PM	I													TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250 50	0.000	0.000	0.000	0.000	0.000	0.250

Intersection Turning Movement Count

Location: I-5 SB Ramps & Fink Rd City: Crows Landing Control: 1-Way Stop (SB)

		_	_	
- 4	031	~ ~		cks
	cai	, v	u	cns

NS/EW Streets:		I-5 SB	Ramps			I-5 SB F	lamps			Fink	Rd			Fink	Rd		
			HBOUND			SOUTH				EASTE	BOUND			WESTE			
AM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
7:00 AM	NL 0	NT 0	NR 0	NU 0	SL 0	ST 0	SR 0	SU 0	EL	ET 0	ER 0	EU 0	WL	WT 0	WR 0	WU 0	TOTAL
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3
7:30 AM	0	0	0	0	o 0	1	1	0	0	1	ň	0	2	2	n	o l	7
7:45 AM	Ô	Ö	Ô	ő	2	i	ñ	ő	0	3	ő	Ô	ī	1	ŏ	o l	8
8:00 AM	0	0	0	0	2	2	0	0	0	0	0	0	2	4	0	0	10
8:15 AM	ō	ō	Ö	Ō	0	ō	Ō	ō	Ö	4	ō	ō	ō	2	Ö	ō	6
8:30 AM	Ó	0	0	Ó	0	0	Ó	0	0	1	0	0	2	0	0	0	3
8:45 AM	0	0	0	0	1	0	0	0	0	2	0	0	0	2	0	0	5
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	5	4	1	0	0	11	0	0	9	13	0	0	43
APPROACH %'s:					50.00%	40.00%	10.00%	0.00%	0.00%	100.00%	0.00%	0.00%	40.91%	59.09%	0.00%	0.00%	
PEAK HR:			- 09:00 AM														TOTAL
PEAK HR VOL:	0	0	0	0	3	2	0	0	0	7	0	0	4	8	0	0	24
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.375	0.250	0.000 I3	0.000	0.000	0.438 0.4	0.000 38	0.000	0.500	0.500	0.000	0.000	0.600
50.4			HBOUND			SOUTH					BOUND			WESTE			
PM	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
4.00.014	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM 4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM 4:30 PM	0	0	0	0	2	0	0	0	0	U	0	0	0	0	0	0	2 2
4:45 PM	0	0	0	0	1	0	0	0	0	n	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	1	0	0	0	0	<u> </u>	ň	0	1	0	0	0	2
5:15 PM	Ô	ň	Ô	ŏ	3	ň	ñ	ŏ	ŏ	ñ	ő	0	i	ñ	ŏ	o l	4
5:30 PM																	
	Ó	ŏ	0	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0		0	0 1	0	0	0	0	0 0	0 0	0	0	0	0	0 1
		Ö	Ö	0	0		0	0	Ō	Ŏ	ő		Ö				0 1 TOTAL
5:45 PM TOTAL VOLUMES:	Ō			0	SL 8	ST 1	SR 0	SU 0	EL 0	ET 0	ER 1	EU 0	0 WL 2	WT 0	WR 0	WU 0	1
5:45 PM TOTAL VOLUMES: APPROACH %'s:	0 NL	NT 0	NR 0	0 0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	Ŏ ET	0 ER	0 EU	0 WL 2	0 WT	0 WR	0 WU	TOTAL 12
5:45 PM TOTAL VOLUMES:	0 NL	NT 0	0 NR	0 0 NU	SL 8	ST 1	SR 0	SU 0	EL 0	ET 0	ER 1	EU 0	0 WL 2	WT 0	WR 0	WU 0	1 TOTAL

Intersection Turning Movement Count

City: Crows Landing
Control: 1-Way Stop (NB) Project ID: 18-7097-004 Date: 3/27/2018 Total

NS/EW Streets: Fink Rd Landfill access Rd Fink Rd Landfill access Rd Fink Rd						
			Fink R	₹d		
NORTHBOUND SOUTHBOUND EASTBOUND			WESTBO	DUND		
AM 0 1 0 0 0 0 0 0 0 1 0	0	0	1	0	0	
NL NT NR NU SL ST SR SU EL ET ER	. EU	WL	WT	WR	WU	TOTAL
7:00 AM 0 0 0 0 0 0 0 0 0 0 0 0	0	1	1	0	0	2
7:15 AM 0 0 0 0 0 0 0 0 0 0 0 0	0	5	0	0	0	5
7:30 AM 0 0 1 0 0 0 0 0 0 0 0 0	0	12	1	0	0	14
7:45 AM 1 0 4 0 0 0 0 0 0 2 0	0	7	1	0	0	15
$oxed{8:00 AM} oxed{0} oxed{1}$	0	9	1	0	1	12
8:15 AM 0 0 10 0 0 0 0 0 0 0 0	0	6	1	0	0	17
8:30 AM 0 0 4 1 0 0 0 0 0 2 0	0	2	1	0	0	10
8:45 AM 0 0 7 0 0 0 0 0 0 0 0	0	7	0	0	2	16
NL NT NR NU SL ST SR SU EL ET ER		WL	WT	WR	WU	TOTAL
TOTAL VOLUMES: 1	0	49	6	0	3	91
APPROACH %'s: 3.57% 0.00% 92.86% 3.57% 0.00% 80.00% 20.00%	0.00%	84.48%	10.34%	0.00%	5.17%	
PEAK HR: 07:30 AM - 08:30 AM						TOTAL
PEAK HR VOL: 1 0 15 0 0 0 0 0 0 2 1	0	34	4	0	1	58
PEAK HR FACTOR: 0.250 0.000 0.375 0.000	0.000	0.708		0.000	0.250	0.853
0.400 0.375			0.750	Λ		0.000
				<u> </u>		
NORTHBOUND SOUTHBOUND EASTBOUND			WESTBO	OUND	_	
PM 0 1 0 0 0 0 0 0 1 0	0	.0	WESTBC	OUND 0	0	T074
PM 0 1 0 0 0 0 0 0 0 1 0 NL NT NR NU SL ST SR SU EL ET ER	. EU	WL	WESTBO 1 WT	OUND 0 WR	WU	TOTAL
PM 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0	0 EU 0	WL 2	WESTBO 1 WT 2	OUND 0 WR 0	WU 2	14
PM 0 1 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1	0 EU 0 0	WL 2 2	WESTBC 1 WT 2 0	OUND 0 WR 0	WU 2 0	14 5
PM 0 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0	0 EU 0 0 0	WL 2 2 0	WESTBO 1 WT 2	OUND 0 WR 0 0	WU 2	14 5 8
PM 0 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0	. EU 0 0 0 0	WL 2 2 0 2	WESTBO 1 WT 2 0 0	OUND 0 WR 0 0 0	WU 2 0 0 1	14 5 8 10
PM 0 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0	0 EU 0 0 0 0	WL 2 2 0 2	WESTBO 1 WT 2 0 0 1	OUND 0 WR 0 0 0 0	WU 2 0 0 1 1 0	14 5 8 10 4
PM 0 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0	0 EU 0 0 0 0	WL 2 2 0 0 2 0 0 0	WESTBO 1 WT 2 0 0 1 0 0	OUND 0 WR 0 0 0 0 0	WU 2 0 0 1 1 0 0 0	14 5 8 10 4 5
PM 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0	0 EU 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 0	WESTBO 1 WT 2 0 0 1	OUND 0 WR 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0	14 5 8 10 4 5 3
PM 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0	0 EU 0 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTBC 1 WT 2 0 0 1 0 0 1	OUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0	14 5 8 10 4 5 3
PM	0 EU 0 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 WL	WESTBC 1 WT 2 0 0 1 0 0 1 WT	OUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0 WU	14 5 8 10 4 5 3 1
PM 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0	0 EU 0 0 0 0 0 0 0	WL 2 2 0 0 0 0 0 0 0 WL 6	WESTBC 1 WT 2 0 0 1 0 0 1 WT 4	OUND 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14 5 8 10 4 5 3
PM	0 EU 0 0 0 0 0 0 0	WL 2 2 0 0 0 0 0 0 0 WL 6	WESTBC 1 WT 2 0 0 1 0 0 1 WT	OUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0 WU	14 5 8 10 4 5 3 1 TOTAL
PM	0 EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 WL 6 46.15%	WESTBO 1 WT 2 0 0 1 0 0 1 WT 4 30.77%	OUND 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 0 1 1 0 0 0 0 0 WU 3 23.08%	14 5 8 10 4 5 3 1 TOTAL 50
PM	0 EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 2 2 0 0 0 0 0 0 0 WL 6	WESTBO 1 WT 2 0 0 1 0 0 1 1 WT 4 30.77%	OUND 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14 5 8 10 4 5 3 1 TOTAL

Intersection Turning Movement Count

Location: Fink Rd Landfill access Rd & Fink Rd City: Crows Landing Control: 1-Way Stop (NB)

Passenger Vehicles

Project ID: 18-7097-004 Date: 3/27/2018

_									r Vehic								
NS/EW Streets:	Fin	ık Rd Landf	fill access Ro	t	Fi	nk Rd Land	Ifill access F	Rd		Fink	Rd			Fink	Rd		
		NORTH	IBOUND			SOUTH	HBOUND			EASTE	OUND			WESTE	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	8
7:45 AM	1	0	1	0	0	0	0	0	0	2	0	0	5	1	0	0	10
8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	3	1	0	1	6
8:15 AM	0	0	3	0	0	0	0	0	0	0	0	0	1	1	0	0	5
8:30 AM	0	0	2	1	0	0	0	0	0	2	0	0	1	1	0	0	7
8:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	2	5
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	1	0	7	1	0	0	0	0	0	4	1	0	23	6	0	3	46
APPROACH %'s:	11.11%	0.00%	77.78%	11.11%					0.00%	80.00%	20.00%	0.00%	71.88%	18.75%	0.00%	9.38%	
PEAK HR :	(07:30 AM -	08:30 AM														TOTAL
PEAK HR VOL:	1	0	4	0	0	0	0	0	0	2	1	0	16	4	0	1	29
PEAK HR FACTOR:	0.250	0.000	0.333	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.571	1.000	0.000	0.250	0.725
		0.4	17							0.3	75			0.6	56		0.723
		NODTH	IBOUND			SOLITI	HBOUND			EASTE	OUND			WESTE	SULIND		
PM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
1 101	NL	NT															
4:00 PM	0		NR	NII	SI	ST	SR	SU		FT				WT			TOTAL
		0	NR 7	NU 0	SL 0	ST 0	SR 0	SU 0	EL	ÉT 1	ER 0	EU 0	WL 2	WT 2	WR	WU	TOTAL 14
4:15 PM	0		7	0 0	SL 0 0	0			EL 0	ET 1 0	ER	EU	WL	WT 2		WU 2	TOTAL 14 4
4:15 PM 4:30 PM	-	0		0	0		0	0	EL	1	ER	EU 0	WL 2	WT 2 0 0	WR 0	WU	14
	Ō	0	7 2	0	0	0	0	0	0 0	1 0	ER	0 0	WL 2 2	WT 2 0 0	WR 0 0	WU 2 0	14 4
4:30 PM	0	0 0 0	7 2 8	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	EL 0 0 0	1 0 0	ER 0 0 0	0 0 0	WL 2 2 0	WT 2 0 0 1 1 0	WR 0 0 0	WU 2 0 0	14 4 8
4:30 PM 4:45 PM	0 0 0	0 0 0 0	7 2 8 6	0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0	1 0 0 0	ER 0 0 0 0	0 0 0 0	WL 2 2 0 2	2 0 0 1	WR 0 0 0 0	WU 2 0 0 1	14 4 8 10
4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	0 0 0	0 0 0 0 0	7 2 8 6 3 4 3	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0	ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0	WL 2 2 0 2 0	2 0 0 1	WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0	14 4 8 10 3 5 3
4:30 PM 4:45 PM 5:00 PM 5:15 PM	0 0 0 0	0 0 0 0 0	7 2 8 6 3 4	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0	ER 0 0 0 0	EU 0 0 0 0 0	WL 2 2 0 0 2 0 0 0	2 0 0 1	WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0	14 4 8 10 3 5
4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	0 0 0 0 0 0 0	0 0 0 0 0 0 0	7 2 8 6 3 4 3 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0	ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 WL	2 0 0 1 0 0 0 1	WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0 WU	14 4 8 10 3 5 3 1
4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	7 2 8 6 3 4 3 0 NR 33	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0	ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 2 2 0 0 0 0 0 0 0 WL 6	2 0 0 1 0 0 0 1 WT 4	WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0 0 WU 3	14 4 8 10 3 5 3
4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	7 2 8 6 3 4 3 0 NR 33 100.00%	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0	ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 WL	2 0 0 1 0 0 0 1	WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0 WU	14 4 8 10 3 5 3 1 TOTAL 48
4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:35 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s : PEAK HR :	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 2 8 6 3 4 3 0 NR 33 100.00%	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 SR	0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0	ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 WL 6 46.15%	2 0 0 1 0 0 0 1 WT 4 30.77%	WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0 0 WU 3 23.08%	14 4 8 10 3 5 3 1 TOTAL 48
4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR: VOL:	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 2 8 6 3 4 3 0 NR 33 100.00%	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 ET 2 100.00%	ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 0 WL 6 46.15%	2 0 0 1 0 0 0 1 WT 4 30.77%	WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0 0 0 WU 3 23.08%	14 4 8 10 3 5 3 1 TOTAL 48
4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:35 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s : PEAK HR :	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 2 8 6 3 4 3 0 NR 33 100.00% 05:00 PM 23 0.719	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 SR	0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0	ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 2 2 0 0 2 0 0 0 0 0 WL 6 46.15%	2 0 0 1 0 0 0 1 WT 4 30.77%	WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 2 0 0 1 1 0 0 0 0 0 0 WU 3 23.08%	14 4 8 10 3 5 3 1 TOTAL 48

Intersection Turning Movement Count

Location: Fink Rd Landfill access Rd & Fink Rd City: Crows Landing Control: 1-Way Stop (NB)

Light Trucks

Project ID: 18-7097-004 Date: 3/27/2018

_								Ligit	Trucks								
NS/EW Streets:	Fir	nk Rd Land	fill access R	d	Fi	nk Rd Land	Ifill access F	Rd		Finl	c Rd			Fink	Rd		
		NORTH	HBOUND			SOUTI	HBOUND			EAST	BOUND			WESTE	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
8:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
8:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	2	0	0	0	0	0	0	0	0	0	3	0	0	0	5
APPROACH %'s:	0.00%	0.00%	100.00%	0.00%									100.00%	0.00%	0.00%	0.00%	
PEAK HR :	(07:30 AM -	- 08:30 AM														TOTAL
PEAK HR VOL:	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	3
PEAK HR FACTOR :	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.750
		0.2	250											0.50			0.750
															00		0.750
DNA			HBOUND				HBOUND			EAST	BOUND			WESTE	BOUND		0.750
PM	0	NORTH 1	HBOUND 0	0	0	0	0	0	0	EAST 1	0	0	0	WESTE	BOUND 0	0	
	NL	NORTH 1 NT	HBOUND 0 NR	NU	SL	0 ST	0 SR	SU	0 EL	EAST 1 ET	0 ER	EU	WL	WESTE 1 WT	BOUND 0 WR	0 WU	TOTAL
4:00 PM	NL 0	NORTH 1 NT 0	HBOUND 0 NR 0	NU 0	SL 0	O ST O	O SR O	SU 0	0 EL 0	EAST 1 ET 0	0 ER 0	EU 0	WL 0	WESTE 1 WT 0	BOUND 0 WR 0	0 WU 0	TOTAL 0
4:00 PM 4:15 PM	NL 0 0	NORTH 1 NT 0	HBOUND 0 NR 0 0	NU 0 0	SL 0 0	0 ST 0 0	0 SR 0 0	SU 0 0	0 EL 0 0	EAST 1 ET 0 0	0 ER 0 0	0 0	WL 0 0	WESTE 1 WT 0 0	BOUND 0 WR	0 WU 0 0	TOTAL 0 0
4:00 PM 4:15 PM 4:30 PM	NL 0 0 0	NORTH 1 NT 0 0	HBOUND 0 NR 0 0	NU 0 0 0	SL 0 0 0	0 ST 0 0	0 SR 0 0	SU 0 0 0	0 EL 0 0	EAST 1 ET 0 0	0 ER 0 0	0 0 0	0 0 0	WESTE 1 WT 0 0 0	000 BOUND 0 WR 0 0	0 WU 0 0	TOTAL 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0 0 0	NORTH 1 NT 0 0 0	HBOUND 0 NR 0 0	NU 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0	0 SR 0 0 0	SU 0 0 0 0	0 EL 0 0 0	EAST 1 ET 0 0 0	0 ER 0 0 0	0 0 0 0 0	0 0 0 0	WESTE 1 WT 0 0 0 0	000 BOUND 0 WR 0 0 0	0 WU 0 0 0	TOTAL 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	NL 0 0 0 0	NORTH 1 NT 0 0 0 0	HBOUND 0 NR 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0	0 EL 0 0 0	EAST 1 ET 0 0 0 0	0 ER 0 0 0 0	0 0 0 0 0	WL 0 0 0 0	WESTE 1 WT 0 0 0 0	000 BOUND 0 WR 0 0	0 WU 0 0 0	TOTAL 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 BOUND 0 WR 0 0 0 0	0 WU 0 0 0 0	TOTAL 0 0 0 0 1
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0	0 EL 0 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 BOUND 0 WR 0 0 0	0 WU 0 0 0 0	TOTAL 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 BOUND 0 WR 0 0 0 0 0	0 WU 0 0 0 0 0	TOTAL 0 0 0 0 1 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:43 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 NT	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30UND 0 WR 0 0 0 0 0 0 0	0 WU 0 0 0 0 0 0	TOTAL 0 0 0 0 1 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:30 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 NT 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 BOUND 0 WR 0 0 0 0 0	0 WU 0 0 0 0 0	TOTAL 0 0 0 0 1 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:43 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 NT 0 0.00%	HBOUND 0 NR 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30UND 0 WR 0 0 0 0 0 0 0	0 WU 0 0 0 0 0 0	TOTAL 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s : PEAK HR :	NL 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 1 0 0 0 1 1 0 0 NR 1 100.00%	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 000 000 000 000 000 000 000 000 00	0 WU 0 0 0 0 0 0 0	TOTAL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH V's: PEAK HR: 0	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 0 NT 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 1 0 0 1 1 0 0 0 0 NR 1 100.00%	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1	3000 3000 3000 3000 3000 3000 3000 300	0 WU 0 0 0 0 0 0 0	TOTAL 0 0 0 0 1 0 0 TOTAL 1
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s : PEAK HR :	NL 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 1 0 0 0 1 1 0 0 NR 1 100.00%	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0 0 0	EAST 1 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 000 000 000 000 000 000 000 000 00	0 WU 0 0 0 0 0 0 0	TOTAL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Intersection Turning Movement Count

Location: Fink Rd Landfill access Rd & Fink Rd City: Crows Landing Control: 1-Way Stop (NB)

NU 0

0 0.000

0 0.000

0 0.000

0.000

TOTAL VOLUMES: APPROACH %'s: PEAK HR: PEAK HR VOL: PEAK HR FACTOR:

Medium Trucks

Project ID: 18-7097-004 Date: 3/27/2018

_							P	ieaiun	i iruck	5							_
NS/EW Streets:	Fir	nk Rd Land	fill access Rd	i	Fi	nk Rd Land	fill access F	Rd		Fink	c Rd			Fink	Rd		
		NORTH	HBOUND			SOUTH	BOUND			EAST	BOUND			WEST	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTA
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
8:15 AM	0	0	2	0	0	0	0	0	0	0	0	0	3	0	0	0	5
8:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	6
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTA
TOTAL VOLUMES:	0	0	6	0	0	0	0	0	0	0	0	0	9	0	0	0	15
APPROACH %'s:	0.00%		100.00%	0.00%									100.00%	0.00%	0.00%	0.00%	
PEAK HR:			- 08:30 AM														TOTA
PEAK HR VOL:	0	0	2	0	0	0	0	0	0	0	0	0	6	0	0	0	8
PEAK HR FACTOR :	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.400
		0.2	250											0.5	00		
200		NORTH	HBOUND				IBOUND			EAST	BOUND			WEST	BOUND		
PM	0	1	0	0	0	0	0	0	0	1_	0	0	0	11	0	0	l
4 00 PM	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTA
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM 4:30 PM	0	0	0	0	0	U	U	0	0	U	0	0	0	0	0 0	0	0
4:30 PM 4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	١	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0					U	U	U						
					0	0	0	0	0	0	Λ	0	0	0	0	0	0

SU 0

0 0.000

0 0.000

ST 0

0 0.000

0 0.000

EU 0

0 0.000

ER 0

0 0.000

WL 0

0 0.000

0 0.000

WR 0

0 0.000

0 0.000

TOTAL 0

Intersection Turning Movement Count

Location: Fink Rd Landfill access Rd & Fink Rd City: Crows Landing Control: 1-Way Stop (NB)

Heavy Trucks

Project ID: 18-7097-004 Date: 3/27/2018

									HUCKS								
NS/EW Streets:	Fir	nk Rd Land	fill access Ro	t	Fi	ink Rd Land	Ifill access I	Rd		Finl	k Rd			Fink	Rd		
		NORTH	HBOUND			SOUTH	HBOUND			EAST	BOUND			WESTE	OUND		
AM	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
Aivi	NL	NT	NR	NU	SL	ST	SR	SU	ĔĹ	ĒT	ER	EU	WL	wT	WR	wu	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
7:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	4
7:30 AM 7:45 AM	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	4
7:45 AM 8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
	0	0	-						0	0	U	0	2	0			6
8:15 AM	0		4	0	0	0	0	0		•	Ü	0		•	0	0	
8:30 AM		0	1	0	0	0	0	0	0	0	0	•	0	0	0	0	1
8:45 AM	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	4
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	11	0	0	0	0	0	0	0	0	0	14	0	0	0	25
APPROACH %'s :	0.00%			0.00%	Ŭ	·	Ü	ŭ	ŭ	ŭ	·	·	100.00%	0.00%	0.00%	0.00%	
PEAK HR:			- 08:30 AM	0.00 /0									100.0070	0.0070	0.00 70	0.0070	TOTAL
PEAK HR VOL :	0	0	8	0	0	0	0	0	0	0	0	0	10	0	0	0	18
PEAK HR VOL:	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.000	
PEAK HR FACTOR :	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.000		0.000	0.750
		0.5	100											0.02			
						SOUTH	HBOUND			EAST	BOUND						
PM	0		HBOUND 0	0	0		HBOUND 0	0	0	EAST 1	BOUND 0	0	0	WESTE 1		0	
PM	0 NL	NORTH	HBOUND 0		0 SL	0	0		0 FL	1	0		0 WL	WESTE 1	SOUND 0	0 WU	TOTAL
		NORTH 1 NT	HBOUND 0 NR	NU	SL	0 ST	0 SR	0 SU	EL	EAST 1 ET		0 EU	WL	WESTE	OUND 0 WR	WU	TOTAL 0
4:00 PM	NL	NORTH 1 NT 0	HBOUND 0	NU 0	SL 0	O ST	O SR O	SU 0	EL 0	1 ET	0 ER	EU	WL 0	WESTE 1 WT	BOUND 0 WR 0	WU 0	0
4:00 PM 4:15 PM	NL 0	NORTH 1 NT 0	HBOUND 0 NR 0 1	NU 0 0	SL 0 0	0 ST 0 0	0 SR 0 0	SU 0 0	0 0	1 ET 0	0 ER	EU 0	WL 0 0	WESTE 1 WT	BOUND 0 WR 0 0	0 0	0
4:00 PM 4:15 PM 4:30 PM	NL 0 0	NORTH 1 NT 0 0	HBOUND 0 NR 0 1	NU 0 0 0	SL 0 0 0	O ST	0 SR 0 0	SU 0	0 0 0	1 ET 0 0	0 ER 0 0	0 0	0 0 0	WESTE 1 WT 0 0	BOUND 0 WR 0 0	0 0 0	0 1 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0 0 0	NORTH 1 NT 0 0 0	HBOUND 0 NR 0 1 0	NU 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0	0 SR 0 0 0	SU 0 0 0 0	0 0 0 0	1 ET 0 0 0 0	0 ER 0 0 0	0 0 0 0 0	0 0 0 0	WESTE 1 WT 0 0 0 0	0 WR 0 0 0	0 0 0 0	0 1 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	NL 0 0 0	NORTH 1 NT 0 0 0 0	HBOUND 0 NR 0 1 0 0	NU 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0	EL 0 0 0 0 0 0 0	1 ET 0 0 0 0	0 ER 0 0	0 0 0	WL 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80UND 0 WR 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0	HBOUND 0 NR 0 1 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0	1 ET 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0	0 NR 0 1 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0	1 ET 0 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0	OUND 0 WR 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0	HBOUND 0 NR 0 1 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0	1 ET 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 NT	0 NR 0 1 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0	BOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 1 0 0 0 0 0 0 0 0 0 0 NR 1	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 WR 0 0 0 0 0	WU 0 0 0 0 0 0	0 1 0 0 0 0 0
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4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 1 0 0 0 0 0 0 0 0 0 0 NR 1	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s: PEAK HR:	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 NR 0 1 0 0 0 0 0 0 0 0 0 0 0 0 NR 1 1000%	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 TOTAL 1
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR: 1	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH 1 NT 0 0 0 0 0 0 0 NT 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 1 0 0 0 0 0 1 1 0 0 0 0 0 NR 1 100.00% -05:00 PM 1 0.250	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WESTE 1	OUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 TOTAL 1

Attachment B

Intersection LOS Worksheets

L.C. C.						
Intersection	0.4					
Int Delay, s/veh	2.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	ĵ.		Y	
Traffic Vol, veh/h	18	43	87	7	15	17
Future Vol, veh/h	18	43	87	7	15	17
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	_	None	_		-	None
Storage Length	_	-	-	-	-	-
Veh in Median Storage	e.# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	6	31	27	0	0	12
Mvmt Flow	24	57	116	9	20	23
IVIVIIIL I IOW	24	31	110	9	20	23
Major/Minor	Major1	N	/lajor2	N	Minor2	
Conflicting Flow All	125	0	-	0	226	121
Stage 1	-	-	-	-	121	-
Stage 2	-	-	-	-	105	-
Critical Hdwy	4.16	-	_	_	6.4	6.32
Critical Hdwy Stg 1	_	_	-	_	5.4	_
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	2.254	_	_	_		3.408
Pot Cap-1 Maneuver	1437	_	_	_	767	904
Stage 1	-	_	_	_	909	-
Stage 2	_	_	_	_	924	_
Platoon blocked, %		_	_	<u>-</u>	324	
	1437	-	-		754	904
Mov Cap-1 Maneuver			-	-	754 754	
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	-	-	-	894	-
Stage 2	-	-	-	-	924	-
Approach	EB		WB		SB	
HCM Control Delay, s	2.2		0		9.6	
HCM LOS			*		Α	
110111 200					,,	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1437	-	-	-	827
HCM Lane V/C Ratio		0.017	-	-	-	0.052
HCM Control Delay (s)	1	7.5	0	-	-	9.6
HCM Lane LOS		Α	Α	-	-	Α
HCM 95th %tile Q(veh)	0.1	-	-	-	0.2
-, -						

Intersection												
Int Delay, s/veh	1.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL	<u>⊏</u>	LDK	VVDL		WDK	INDL		אטוז	ODL	ODT	אמט
	1	37	٥	٥	1	20	1	4	27	۸	٥	0
Traffic Vol, veh/h Future Vol, veh/h	4	37	0	0	75 75	28 28	4	5 5	27	0	0	0
	0	0	0	0	0	20	0	0	0	0	0	0
Conflicting Peds, #/hr		Free										
Sign Control RT Channelized	Free		Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
	-	-	None	-	-	None	-	-		-	-	None
Storage Length		-	-	-	-	-	-	-	-	-	40005	-
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-		16965	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	39	0	0	24	22	25	100	4	0	0	0
Mvmt Flow	4	40	0	0	82	30	4	5	29	0	0	0
Major/Minor	Major1		N	Major2			Minor1					
Conflicting Flow All	112	0	_	-	-	0	145	160	40			
Stage 1		-	-	_	_	-	48	48	-			
Stage 2	_	_	_	_	_	_	97	112	_			
Critical Hdwy	4.1	_	_	_	_	_	6.65	7.5	6.24			
Critical Hdwy Stg 1	-	_	_	_	_	_	5.65	6.5	-			
Critical Hdwy Stg 2	_	_	_	_	_	_	5.65	6.5	_			
Follow-up Hdwy	2.2	_	_	_	_		3.725		3.336			
Pot Cap-1 Maneuver	1490	_	0	0	_	_	796	586	1026			
Stage 1	-	_	0	0	_	_	919	696	-			
Stage 2	_	_	0	0	_	_	872	647	_			
Platoon blocked, %		_			_	_	UIL	0-11				
Mov Cap-1 Maneuver	1490	_	_	_	_	_	794	0	1026			
Mov Cap-2 Maneuver	-	_	_	<u>-</u>	_	_	794	0	1020			
Stage 1	_	_		_	_	_	916	0	_			
Stage 2	_			_			872	0	_			
Olaye 2	_						012	U				
Approach	EB			WB			NB					
HCM Control Delay, s	0.7			0			8.8					
HCM LOS							Α					
Minor Lane/Major Mvm	nt N	NBLn1	EBL	EBT	WBT	WBR						
Capacity (veh/h)		989	1490									
HCM Lane V/C Ratio			0.003	_	_	_						
HCM Control Delay (s)		8.8	7.4	0	-	-						
HCM Lane LOS		0.0 A		A		-						
HCM 95th %tile Q(veh)		0.1	A 0		-	-						
HOW Sour Mile Q(ven)		U. I	U	-	-	-						

Intersection												
Int Delay, s/veh	4.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ĵ.			4						4	
Traffic Vol, veh/h	0	22	4	51	30	0	0	0	0	23	2	2
Future Vol, veh/h	0	22	4	51	30	0	0	0	0	23	2	2
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	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	59	0	8	48	0	0	0	0	17	100	50
Mvmt Flow	0	24	4	55	33	0	0	0	0	25	2	2
Major/Minor M	1ajor1			Major2					N	Minor2		
Conflicting Flow All	-	0	0	28	0	0				169	171	33
Stage 1	_	-	_		_	_				143	143	-
Stage 2	_	_	_	_	-	_				26	28	-
Critical Hdwy	_	_	-	4.18	-	-				6.57	7.5	6.7
Critical Hdwy Stg 1	-	-	-	-	-	-				5.57	6.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.57	6.5	-
Follow-up Hdwy	-	-	-	2.272	-	-				3.653	4.9	3.75
Pot Cap-1 Maneuver	0	-	-	1547	-	0				788	577	918
Stage 1	0	-	-	-	-	0				849	625	-
Stage 2	0	-	-	-	-	0				959	712	-
Platoon blocked, %		-	-		-							
Mov Cap-1 Maneuver	-	-	-	1547	-	-				760	0	918
Mov Cap-2 Maneuver	-	-	-	-	-	-				760	0	-
Stage 1	-	-	-	-	-	-				849	0	-
Stage 2	-	-	-	-	-	-				924	0	-
Approach	EB			WB						SB		
HCM Control Delay, s	0			4.7						9.9		
HCM LOS				111						Α		
										,,		
Minor Lane/Major Mvmt		EBT	EBR	WBL	WBT:	SBI n1						
Capacity (veh/h)		-		1547		771						
HCM Lane V/C Ratio		_		0.036		0.038						
HCM Control Delay (s)		_		7.4	0	9.9						
HCM Lane LOS		_	_	Α.4	A	9.9 A						
HCM 95th %tile Q(veh)		_	_	0.1	-	0.1						
TIOW Jour Julie Q(Veri)				0.1	_	0.1						

Intersection						
Int Delay, s/veh	7.1					
		EDD	WDI	WDT	NDI	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	4	20	4	Y	45
Traffic Vol, veh/h	2	1	36	4	1	15
Future Vol, veh/h	2	1	36	4	1	15
Conflicting Peds, #/hr	_ 0	0	0	_ 0	0	0
<u> </u>	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	46	0	0	67
Mvmt Flow	2	1	42	5	1	18
Major/Minor M	oior1		Majara		linar1	
	ajor1		Major2		/linor1	
Conflicting Flow All	0	0	3	0	92	3
Stage 1	-	-	-	-	3	-
Stage 2	-	-	-	-	89	-
Critical Hdwy	-	-	4.56	-	6.4	6.87
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.614	-		3.903
Pot Cap-1 Maneuver	-	-	1373	-	913	919
Stage 1	-	-	-	-	1025	-
Stage 2	-	-	-	-	940	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	-	1373	_	885	919
Mov Cap-2 Maneuver	-	_	-	_	885	-
Stage 1	_	_	_	_	1025	_
Stage 2	_	_	_	_	911	_
Olago Z	_				511	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		6.9		9	
HCM LOS					Α	
Missau I. ama /Maisau Massaut		UDL 4	EDT	EDD	WDI	WDT
Minor Lane/Major Mvmt	ſ	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		917	-		1373	-
HCM Lane V/C Ratio		0.021	-		0.031	-
HCM Control Delay (s)		9	-	-		0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)		0.1	-	-	0.1	-

Intersection						
Int Delay, s/veh	3.5					
		CDT	MOT	WIDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	40	4	1	^	Y	00
Traffic Vol, veh/h	46	101	56	9	37	20
Future Vol, veh/h	46	101	56	9	37	20
Conflicting Peds, #/hr	0	_ 0	_ 0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	0	9	5	0	0	0
Mvmt Flow	61	135	75	12	49	27
Major/Minor	Major1	,	/loior?	,	/linor?	
	Major1		Major2		Minor2	0.4
Conflicting Flow All	87	0	-	0	338	81
Stage 1	-	-	-	-	81	-
Stage 2	-	-	-	-	257	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1522	-	-	-	662	985
Stage 1	-	-	-	-	947	-
Stage 2	-	-	-	-	791	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1522	-	-	_	634	985
Mov Cap-2 Maneuver	-	-	-	-	634	-
Stage 1	-	-	_	-	906	_
Stage 2	_	-	_	_	791	-
Jugo 2						
Approach	EB		WB		SB	
HCM Control Delay, s	2.3		0		10.5	
HCM LOS					В	
Minor Long/Major Mar	o t	EDI	EDT	WDT	WDD	CDI ~1
Minor Lane/Major Mvn	ιι	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		1522	-	-	-	725
HCM Lane V/C Ratio		0.04	-	-		0.105
HCM Control Delay (s)		7.5	0	-	-	10.5
HCM Lane LOS		A	Α	-	-	В
HCM 95th %tile Q(veh)	0.1	-	-	-	0.3

Intersection													
Int Delay, s/veh	3.8												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			12			4					
Traffic Vol, veh/h	4	56	0	0	61	14	0	2	90	0	0	0	
Future Vol, veh/h	4	56	0	0	61	14	0	2	90	0	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
	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	-	-	16965	-	
Grade, %	_	0	-	_	0	-	-	0	_	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	0	7	0	0	0	21	0	50	6	0	0	0	
Mvmt Flow	4	61	0	0	66	15	0	2	98	0	0	0	
Major/Minor M	lajor1		1	Major2		N	Minor1						
Conflicting Flow All	81	0	-		-	0	143	150	61				
Stage 1	-	-	-	-	-	-	69	69	-				
Stage 2	-	-	-	-	-	-	74	81	-				
Critical Hdwy	4.1	-	-	-	-	-	6.4	7	6.26				
Critical Hdwy Stg 1	-	-	_	-	-	-	5.4	6	-				
Critical Hdwy Stg 2	_	_	-	-	_	_	5.4	6	_				
Follow-up Hdwy	2.2	-	-	-	-	_	3.5	4.45	3.354				
	1529	-	0	0	-	_	854	662	993				
Stage 1	-	-	0	0	-	_	959	752	-				
Stage 2	_	_	0	0	_	_	954	743	_				
Platoon blocked, %		_			_	_							
	1529	-	-	-	-	_	851	0	993				
Mov Cap-2 Maneuver	-	-	_	_	-	_	851	0	-				
Stage 1	-	-	-	-	-	-	956	0	-				
Stage 2	_	_	_	_	_	_	954	0	_				
210.50 2													
Approach	EB			WB			NB						
HCM Control Delay, s	0.5			0			9						
HCM LOS							A						
Minor Lane/Major Mvmt		NBLn1	EBL	EBT	WBT	WBR							
Capacity (veh/h)		993	1529	-	-	-							
HCM Lane V/C Ratio		0.101		-	-	-							
HCM Control Delay (s)		9	7.4	0	-	-							
HCM Lane LOS		A	Α	A	-	-							
HCM 95th %tile Q(veh)		0.3	0										

Intersection												
Int Delay, s/veh	5.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		1			र्स						4	
Traffic Vol, veh/h	0	24	8	51	9	0	0	0	0	36	3	3
Future Vol, veh/h	0	24	8	51	9	0	0	0	0	36	3	3
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	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	25	0	0	0	0	0	0	11	0	0
Mvmt Flow	0	26	9	55	10	0	0	0	0	39	3	3
Major/Minor M	lajor1			Major2					N	Minor2		
Conflicting Flow All		0	0	35	0	0				151	155	10
Stage 1	-	-	-	-	-	-				120	120	-
Stage 2	-	-	-	-	-	-				31	35	-
Critical Hdwy	-	-	-	4.1	-	-				6.51	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-				5.51	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.51	5.5	-
Follow-up Hdwy	-	-	-	2.2	-	-				3.599	4	3.3
Pot Cap-1 Maneuver	0	-	-	1589	-	0				820	741	1077
Stage 1	0	-	-	-	-	0				883	800	-
Stage 2	0	-	-	-	-	0				969	870	-
Platoon blocked, %		-	-		-							
Mov Cap-1 Maneuver	-	-	-	1589	-	-				791	0	1077
Mov Cap-2 Maneuver	-	-	-	-	-	-				791	0	-
Stage 1	-	-	-	-	-	-				883	0	-
Stage 2	-	-	-	-	-	-				935	0	-
Approach	EB			WB						SB		
HCM Control Delay, s	0			6.2						9.7		
HCM LOS										Α		
Minor Lane/Major Mvmt		EBT	EBR	WBL	WBT:	SBLn1						
Capacity (veh/h)		-		1589	-	807						
HCM Lane V/C Ratio		-	-	0.035	-	0.057						
HCM Control Delay (s)		-	-	7.3	0	9.7						
HCM Lane LOS		-	-	Α	Α	Α						
HCM 95th %tile Q(veh)		-	-	0.1	-	0.2						

Intersection						
Int Delay, s/veh	7.2					
		EDD	///DI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ,			4	M	0.4
Traffic Vol, veh/h	1	0	9	3	0	24
Future Vol, veh/h	1	0	9	3	0	24
Conflicting Peds, #/hr	_ 0	_ 0	0	_ 0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	4
Mvmt Flow	1	0	11	4	0	28
Major/Minor NA	aiar1		Major2	A	linor1	
	ajor1				/linor1	
Conflicting Flow All	0	0	1	0	27	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	26	-
Critical Hdwy	-	-	4.1	-	6.4	6.24
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-		3.336
Pot Cap-1 Maneuver	-	-	1635	-	993	1078
Stage 1	-	-	-	-	1028	-
Stage 2	-	-	-	-	1002	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1635	-	986	1078
Mov Cap-2 Maneuver	-	-	-	-	986	-
Stage 1	-	-	-	-	1028	-
Stage 2	-	-	-	_	995	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		5.4		8.4	
HCM LOS					Α	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
	I		LDI			WDT
Capacity (veh/h)		1078	-		1635	-
HCM Cantrol Dalay (a)		0.026	-		0.006	-
HCM Control Delay (s)		8.4	-	-	7.2	0
HCM Lane LOS		A	-	-	A	Α
HCM 95th %tile Q(veh)		0.1	-	-	0	-

Intersection						
Int Delay, s/veh	2.9					
<u> </u>		FRT	MOT	14/55	051	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	ĵ.	_	Y	
Traffic Vol, veh/h	18	43	112	7	15	42
Future Vol, veh/h	18	43	112	7	15	42
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	5	30	21	0	0	5
Mvmt Flow	24	57	149	9	20	56
Major/Minor M	laiar1		/oior?		linar?	
	1ajor1		Major2		Minor2	454
Conflicting Flow All	158	0	-	0	259	154
Stage 1	-	-	-	-	154	-
Stage 2	-	-	-	-	105	-
Critical Hdwy	4.15	-	-	-	6.4	6.25
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
	2.245	-	-	-		3.345
Pot Cap-1 Maneuver	1403	-	-	-	734	884
Stage 1	-	-	-	-	879	-
Stage 2	-	-	-	-	924	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1403	-	-	_	721	884
Mov Cap-2 Maneuver	-	-	-	-	721	-
Stage 1	-	_	-	_	863	_
Stage 2	_	_	_	_	924	_
0 tago _					V = .	
Approach	EB		WB		SB	
HCM Control Delay, s	2.2		0		9.7	
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SRI n1
Capacity (veh/h)		1403		***	WDIX.	834
HCM Lane V/C Ratio		0.017	_	_	_	0.091
HCM Control Delay (s)		7.6	0	-		9.7
HCM Lane LOS			A		-	9.7 A
HCM 95th %tile Q(veh)		0.1		-	-	0.3
HOW SOUL WILL W(VEN)		U. I	-	-	_	0.5

Intersection												
Intersection Int Delay, s/veh	4.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			ĵ»			4				
Traffic Vol, veh/h	7	37	0	0	125	28	108	5	27	0	0	0
Future Vol, veh/h	7	37	0	0	125	28	108	5	27	0	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	-		16965	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	42	38	0	0	14	22	5	98	4	0	0	0
Mvmt Flow	8	40	0	0	136	30	117	5	29	0	0	0
Major/Minor N	//ajor1		N	Major2		ľ	Minor1					
Conflicting Flow All	166	0	_	-	-	0	207	222	40			
Stage 1	-	_	-	_	-	-	56	56	-			
Stage 2	-	-	-	-	-	-	151	166	-			
Critical Hdwy	4.52	-	-	-	-	-	6.45	7.48	6.24			
Critical Hdwy Stg 1	-	-	-	-	-	-	5.45	6.48	-			
Critical Hdwy Stg 2	-	-	-	-	-	-	5.45	6.48	-			
	2.578	-	-	-	-	-	3.545	4.882	3.336			
Pot Cap-1 Maneuver	1202	-	0	0	-	-	775	538	1026			
Stage 1	-	-	0	0	-	-	959	692	-			
Stage 2	-	-	0	0	-	-	870	611	-			
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1202	-	-	-	-	-	770	0	1026			
Mov Cap-2 Maneuver	-	-	-	-	-	-	770	0	-			
Stage 1	-	-	-	-	-	-	952	0	-			
Stage 2	-	-	-	-	-	-	870	0	-			
Approach	EB			WB			NB					
HCM Control Delay, s	1.3			0			10.5					
HCM LOS	1.0			U			10.3 B					
I IOWI LOO							ט					
Minor Lane/Major Mvm	t l	NBLn1	EBL	EBT	WBT	WBR						
Capacity (veh/h)		810	1202	-	-	-						
HCM Lane V/C Ratio			0.006	-	-	-						
HCM Control Delay (s)		10.5	8	0	-	-						
HCM Lane LOS		В	Α	Α	-	-						
HCM 95th %tile Q(veh)		0.7	0	-	-	-						

Intersection												
Int Delay, s/veh	4.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ĵ.			4						4	
Traffic Vol, veh/h	0	25	7	51	184	0	0	0	0	23	2	106
Future Vol, veh/h	0	25	7	51	184	0	0	0	0	23	2	106
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	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	63	42	8	10	0	0	0	0	17	98	5
Mvmt Flow	0	27	8	55	200	0	0	0	0	25	2	115
Major/Minor M	ajor1			Major2					<u> </u>	/linor2		
Conflicting Flow All	-	0	0	35	0	0				341	345	200
Stage 1	-	-	-	-	-	-				310	310	-
Stage 2	-	-	-	-	-	-				31	35	-
Critical Hdwy	-	-	-	4.18	-	-				6.57	7.48	6.25
Critical Hdwy Stg 1	-	-	-	-	-	-				5.57	6.48	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.57	6.48	-
Follow-up Hdwy	-	-	-	2.272	-	-				3.653	4.882	
Pot Cap-1 Maneuver	0	-	-	1538	-	0				626	451	833
Stage 1	0	-	-	-	-	0				711	517	-
Stage 2	0	-	-	-	-	0				954	709	-
Platoon blocked, %		-	-		-							
Mov Cap-1 Maneuver	-	-	-	1538	-	-				601	0	833
Mov Cap-2 Maneuver	-	-	-	-	-	-				601	0	-
Stage 1	-	-	-	-	-	-				711	0	-
Stage 2	-	-	-	-	-	-				916	0	-
Approach	EB			WB						SB		
HCM Control Delay, s	0			1.6						10.7		
HCM LOS										В		
Minor Lane/Major Mvmt		EBT	EBR	WBL	WBT :	SBLn1						
Capacity (veh/h)		-	-	1538	-	779						
HCM Lane V/C Ratio		-	-	0.036	-	0.183						
HCM Control Delay (s)		-	-	7.4	0	10.7						
HCM Lane LOS		-	-	Α	Α	В						
HCM 95th %tile Q(veh)		-	-	0.1	-	0.7						

Intersection						
Int Delay, s/veh	7.8					
		EDD	WDI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	1	200	र्स	Y	00
Traffic Vol, veh/h	2	1	292	4	1	20
Future Vol, veh/h	2	1	292	4	1	20
Conflicting Peds, #/hr	_ 0	0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	8	0	0	74
Mvmt Flow	2	1	344	5	1	24
N.A ' /N.A'	1		4		I'	
	1ajor1		Major2		/linor1	
Conflicting Flow All	0	0	3	0	696	3
Stage 1	-	-	-	-	3	-
Stage 2	-	-	-	-	693	-
Critical Hdwy	-	-	4.18	-	6.4	6.94
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.272	-	3.5	3.966
Pot Cap-1 Maneuver	-	-	1580	-	411	904
Stage 1	-	-	-	-	1025	-
Stage 2	-	-	_	-	500	-
Platoon blocked, %	_	_		-		
Mov Cap-1 Maneuver	_	_	1580	_	321	904
Mov Cap-1 Maneuver	_	_	-	_	321	- 504
Stage 1				_	1025	_
Stage 2	_	-	_	-	391	_
Staye 2	-	-	-	-	391	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		7.8		9.5	
HCM LOS					A	
					•	
Minor Lane/Major Mvmt	: N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		832	-		1580	-
HCM Lane V/C Ratio		0.03	-	-	0.217	-
HCM Control Delay (s)		9.5	-	-	7.9	0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)		0.1	-	-	8.0	-
, ,						

Intersection						
Int Delay, s/veh	3.7					
		EDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	74	400	1	^	77	00
Traffic Vol, veh/h	71	126	56	9	37	20
Future Vol, veh/h	71	126	56	9	37	20
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	0	7	5	0	0	0
Mvmt Flow	95	168	75	12	49	27
Major/Minor	Major1		/oior?		/inar?	
	Major1		Major2		Minor2	0.1
Conflicting Flow All	87	0	-	0	439	81
Stage 1	-	-	-	-	81	-
Stage 2	-	-	-	-	358	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1522	-	-	-	579	985
Stage 1	-	-	-	-	947	-
Stage 2	-	-	_	-	712	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1522	-	_	-	539	985
Mov Cap-2 Maneuver	-	-	-	-	539	-
Stage 1	-	-	_	-	882	_
Stage 2	_	_	_	_	712	_
Jugo 2					, 14	
Approach	EB		WB		SB	
HCM Control Delay, s	2.7		0		11.4	
HCM LOS					В	
Minor Lone (Marian M	_1	EDI	ГРТ	WDT	WDD	ODL 4
Minor Lane/Major Mvn	ıί	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		1522	-	-	-	641
HCM Lane V/C Ratio		0.062	-	-		0.119
HCM Control Delay (s)		7.5	0	-	-	11.4
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)	0.2	-	-	-	0.4

Existing plus Construction

Timing Plan: PM Peak Hour

Intersection												
Int Delay, s/veh	4.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			ĵ.			4				
Traffic Vol, veh/h	108	106	0	0	61	14	3	2	90	0	0	0
Future Vol, veh/h	108	106	0	0	61	14	3	2	90	0	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	-	-	16965	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	4	4	0	0	0	21	100	49	6	0	0	0
Mvmt Flow	117	115	0	0	66	15	3	2	98	0	0	0
	Major1		N	//ajor2		N	/linor1					
Conflicting Flow All	81	0	-	-	-	0	423	430	115			
Stage 1	-	-	-	-	-	-	349	349	-			
Stage 2	-	-	-	-	-	-	74	81	-			
Critical Hdwy	4.14	-	-	-	-	-	7.4	6.99	6.26			
Critical Hdwy Stg 1	-	-	-	-	-	-	6.4	5.99	-			
Critical Hdwy Stg 2	-	-	-	-	-	-	6.4	5.99	-			
Follow-up Hdwy	2.236	-	-	-	-	-	4.4	4.441	3.354			
Pot Cap-1 Maneuver	1504	-	0	0	-	-	439	453	927			
Stage 1	-	-	0	0	-	-	540	558	-			
Stage 2	-	-	0	0	-	-	750	744	-			
Platoon blocked, %	1501	-			-	-	400	^	007			
Mov Cap-1 Maneuver	1504	-	-	-	-	-	403	0	927			
Mov Cap-2 Maneuver	-	-	-	-	-	-	403	0	-			
Stage 1	-	-	-	-	-	-	495 750	0	-			
Stage 2	-	-	-	-	-	-	150	0	-			
Approach	EB			WB			NB					
HCM Control Delay, s	3.8			0			9.6					
HCM LOS	0.0			U			3.0 A					
							, ,					
Minor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	WBT	WBR						
Capacity (veh/h)		890	1504									
HCM Lane V/C Ratio			0.078	_	_	_						
HCM Control Delay (s)		9.6	7.6	0	-	-						
HCM Lang LOC		٥.٥	۸ . ۲	۸								

Α

0.4

Α

0.3

Α

HCM Lane LOS

HCM 95th %tile Q(veh)

Intersection												
Int Delay, s/veh	2.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ĵ.			र्स						4	
Traffic Vol, veh/h	0	178	112	51	12	0	0	0	0	36	3	6
Future Vol, veh/h	0	178	112	51	12	0	0	0	0	36	3	6
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	-	-	16974	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	2	4	0	25	0	0	0	0	11	0	50
Mvmt Flow	0	193	122	55	13	0	0	0	0	39	3	7
Major/Minor N	/lajor1			Major2					N	/linor2		
Conflicting Flow All	-	0	0	315	0	0				377	438	13
Stage 1	_	-	-	-	-	-				123	123	-
Stage 2	-	-	-	_	-	-				254	315	-
Critical Hdwy	-	-	-	4.1	-	-				6.51	6.5	6.7
Critical Hdwy Stg 1	-	-	-	-	-	-				5.51	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-				5.51	5.5	-
Follow-up Hdwy	-	-	-	2.2	-	-				3.599	4	3.75
Pot Cap-1 Maneuver	0	-	-	1257	-	0				607	515	943
Stage 1	0	-	-	-	-	0				881	798	-
Stage 2	0	-	-	-	-	0				768	659	-
Platoon blocked, %		-	-		-							
Mov Cap-1 Maneuver	-	-	-	1257	-	-				580	0	943
Mov Cap-2 Maneuver	-	-	-	-	-	-				580	0	-
Stage 1	-	-	-	-	-	-				881	0	-
Stage 2	-	-	-	-	-	-				734	0	-
Approach	EB			WB						SB		
HCM Control Delay, s	0			6.5						11.4		
HCM LOS										В		
Minor Lane/Major Mvm	t	EBT	EBR	WBL	WBT :	SBLn1						
Capacity (veh/h)		-		1257	-							
HCM Lane V/C Ratio		-		0.044	-	0.08						
HCM Control Delay (s)		-	-	8	0	11.4						
HCM Lane LOS		-	-	A	A	В						
HCM 95th %tile Q(veh)		-	-	0.1	-	0.3						
,												

Intersection						
Int Delay, s/veh	9.6					
		EDD	VA/DI	MOT	ND	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĥ			4	A	
Traffic Vol, veh/h	1	0	14	3	0	280
Future Vol, veh/h	1	0	14	3	0	280
Conflicting Peds, #/hr	0	0	_ 0	_ 0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	35	0	0	2
Mvmt Flow	1	0	16	4	0	329
NA . ' . /NA'	4		4		r	
	ajor1		Major2		/linor1	
Conflicting Flow All	0	0	1	0	37	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	36	-
Critical Hdwy	-	-	4.45	-	6.4	6.22
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.515	-	3.5	3.318
Pot Cap-1 Maneuver	-	-	1430	-	981	1084
Stage 1	-	-	-	-	1028	-
Stage 2	-	-	_	-	992	-
Platoon blocked, %	-	_		_		
Mov Cap-1 Maneuver	_	-	1430	_	970	1084
Mov Cap-2 Maneuver	_	_	00	_	970	-
Stage 1					1028	_
Stage 2	_			_	981	_
Slaye Z	_	<u>-</u>	-	<u>-</u>	301	<u>-</u>
Approach	EB		WB		NB	
HCM Control Delay, s	0		6.2		9.8	
HCM LOS					Α	
NAC I /NA - ' - NA I		UDL 4	ГОТ	EDD	MDI	MOT
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		1084	-		1430	-
HCM Lane V/C Ratio		0.304	-	-	0.012	-
HCM Control Delay (s)		9.8	-	-	•	0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)		1.3	-	-	0	-

Attachment C

Freeway Mainline LOS Worksheets

	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing Conditions, I-5 Northbound, North of Fink Road, AM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	1675	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1112
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.47
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.7
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	16.2
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	В
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing Conditions, I-5 Northbound, North of Fink Road, PM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	1887	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1253
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.52
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.7
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	18.2
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing Conditions, I-5 Northbound, South of Fink Road, AM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	1674	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1112
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.47
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.7
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	16.2
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	В
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing Conditions, I-5 Northbound, South of Fink Road, PM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	1959	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1301
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.55
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.7
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	18.9
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing Conditions, I-5 Southbound, North of Fink Road, AM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	2028	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1346
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.56
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.6
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	19.6
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

HCSTM Freeways Version 7.8.5 I-5_SB_North_of_Fink_AM.xuf

	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing Conditions, I-5 Southbound, North of Fink Road, PM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	2122	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1409
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.59
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.4
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	20.6
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

HCSTM Freeways Version 7.8.5 I-5_SB_North_of_Fink_PM.xuf

	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing Conditions, I-5 Southbound, South of Fink Road, AM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	2050	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1362
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.57
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.6
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	19.9
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing Conditions, I-5 Southbound, South of Fink Road, PM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	2151	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1428
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.60
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.3
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	20.9
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

HCSTM Freeways Version 7.8.5 I-5_SB_South_of_Fink_PM.xuf

	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing plus Project, I-5 Northbound, North of Fink Road, AM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	1678	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1114
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.47
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.7
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	16.2
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	В
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

HCSTM Freeways Version 7.8.5 I-5_NB_North_of_Fink_AM.xuf

	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing plus Project, I-5 Northbound, North of Fink Road, PM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	1991	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1322
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.55
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.6
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	19.3
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

HCSTM Freeways Version 7.8.5 I-5_NB_North_of_Fink_PM.xuf

	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing plus Project, I-5 Northbound, South of Fink Road, AM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	1778	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1180
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.49
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.7
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	17.2
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	В
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

HCSTM Freeways Version 7.8.5 I-5_NB_South_of_Fink_AM.xuf

	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing plus Project, I-5 Northbound, South of Fink Road, PM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	1962	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1303
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.55
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.7
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	19.0
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing plus Project, I-5 Southbound, North of Fink Road, AM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	2132	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (V _p), pc/h/ln	1416
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.59
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.4
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	20.7
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

HCS T Freeways Version 7.8.5 I-5_SB_North_of_Fink_AM.xuf

	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing plus Project, I-5 Southbound, North of Fink Road, PM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	2125	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1411
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.59
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.4
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	20.6
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing plus Project, I-5 Southbound, South of Fink Road, AM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	2053	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	1364
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.57
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.5
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	19.9
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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	HCS7 Basic Fr	eeway Report	
Project Information			
Analyst	Mladen Popovic - Dudek	Date	2/28/2020
Agency		Analysis Year	2020
Jurisdiction	Caltrans	Time Period Analyzed	2017
Project Description	Proxima Solar, Existing plus Project, I-5 Southbound, South of Fink Road, PM Peak Hour	Unit	United States Customary
Geometric Data			
Number of Lanes, In	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	70.0	Total Ramp Density (TRD), ramps/mi	0.33
Lane Width, ft	12	Free-Flow Speed (FFS), mi/h	68.7
Right-Side Lateral Clearance, ft	10		
Adjustment Factors			
Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Weather Type	Non-Severe Weather	Final Capacity Adjustment Factor (CAF)	1.000
Incident Type	No Incident	Demand Adjustment Factor (DAF)	1.000
Demand and Capacity			
Demand Volume veh/h	2254	Heavy Vehicle Adjustment Factor (fHV)	0.801
Peak Hour Factor	0.94	Flow Rate (V _p), pc/h/ln	1497
Total Trucks, %	24.80	Capacity (c), pc/h/ln	2387
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2387
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.63
Passenger Car Equivalent (ET)	2.000		
Speed and Density			
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	68.0
Right-Side Lateral Clearance Adj. (fRLC)	0.0	Density (D), pc/mi/ln	22.0
Total Ramp Density Adjustment	1.3	Level of Service (LOS)	С
Adjusted Free-Flow Speed (FFSadj), mi/h	68.7		

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Appendix D

Biological Resources Report

Biological Resources Report for the Paulsell Solar Energy Center Project

Prepared for:

Crow Creek Solar, LLC

Prepared by:

DUDEK

1630 San Pablo Avenue, Suite 300 Oakland, California 94612 Contact: Ryan Henry

APRIL 2021

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
2010 MND	Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration
Crow Creek Solar	Crow Creek Solar, LLC
CUP	Conditional Use Permit
CWA	Clean Water Act
Delineation	Federal Aquatic Resources Delineation
Manual	U.S. Army Corps of Engineers Wetlands Delineation Manual
MND	Mitigated Negative Declaration
OHWM	ordinary high water mark
OHWM Guide	A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States
Project	Paulsell Solar Energy Center Project
Regional Supplement	Regional Supplement to the USACE Wetland Delineation Manual: Arid West Region
SCADA	supervisory control and data acquisition
USACE	U.S. Army Corps of Engineers

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1 Introduction

Dudek has prepared this Biological Resources Report for the proposed Paulsell Solar Energy Center Project ("Paulsell Project Site"), previously known as the Scatec Westside Solar Ranch – Phase II, located in Stanislaus County, California (Figure 1 and Figure 2). This report describes current site conditions, provides a habitat assessment for special-status species with potential to occur on the Paulsell Project Site, and describes survey methodologies and results of various focused field survey efforts conducted on the Paulsell Project Site in 2020. For purposes of this report, special-status biological resources are defined as follows:

- Vegetation communities that are (1) designated as sensitive by California Department of Fish and Wildlife ("CDFW") and assigned state ranks of S1-S3 based on their rarity and threats (CDFW 2019a), (2) habitat for special-status plant or wildlife species, or (3) designated as sensitive by the County's General Plan.
- Plant species that are (1) designated as either rare, threatened, or endangered by United States Fish and Wildlife Service ("USFWS") or CDFW and are protected under either the Federal Endangered Species Act ("FESA"; 16 USC 1531 et seq.) or California Endangered Species Act ("CESA"; California Fish and Game Code 2050 et seq.); (2) candidate species being considered or proposed for listing under FESA or CESA; (3) included on the California Department of Fish and Wildlife's Special Vascular Plants, Bryophytes, and Lichens List (CDFW 2020a) or species with a California Rare Plant Rank ("CRPR") of 1 or 2 in the California Native Plant Society's ("CNPS") Inventory of Rare and Endangered Plants of California (CNPS Inventory; CNPS 2020a); or (4) given protection under the County's General Plan and applicable ordinances.
- Wildlife species that are (1) designated as either rare, threatened, or endangered by the USFWS or CDFW and are protected under either FESA (16 USC 1531 et seq.) or CESA (CFCG, Section 2050 et seq.); (2) candidate species being considered or proposed for listing under FESA or CESA; or (3) included on the CDFW Special Animals List (CDFW 2019b).

This report is intended to provide baseline information to support the Paulsell Project's California Environmental Quality Act Mitigated Negative Declaration Addendum.

1.1 Project Description

Crow Creek Solar, LLC ("Crow Creek Solar") is requesting the County amend the existing conditional use permit ("CUP") for the Scatec Westside Solar Ranch ("Approved Project"), approved by Stanislaus County ("County") in November 2010 and supported by an adopted mitigated negative declaration ("MND") through a County Staff Approval Permit. The proposed Paulsell Project is designed to generate up to 20 megawatts of electricity on 232 acres and would require support facilities consisting of access roads, fencing, medium-voltage stations, a project collector substation, a battery energy storage system ("BESS"), an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, operations and maintenance ("O&M") building, supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment.

The Paulsell Project would be located on a site covered by an existing MND titled Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration ("2010 MND"). The CUP for the Approved Project (No. 2010-09) allows for the construction, operation, and

decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre site, which was part of the original Scatec Westside Solar Ranch CUP ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project Site would be located within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND.

The Paulsell Project includes a solar energy facility similar to the Approved Project. The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres, as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed. This increase will be contained entirely within the area previously analyzed and approved for the Original Project Site in the 2010 MND. The Paulsell Project proposes the potential development of additional support facilities, as described above. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the CUP and 2010 MND.

1.2 Biological Summary of the Approved Project – Scatec Westside Solar Ranch

The 2010 Scatec Westside Solar Ranch MND concluded that the impacts of the Approved Project on biological resources would be less-than-significant with mitigation. Habitat loss was not considered substantial due to the existing and historic agricultural use of the site. Potential impacts to burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), and San Joaquin kit fox (*Vulpes macrotis mutica*) would be reduced to a less-than-significant level with the implementation of a number of Mitigation Measures ("MM") that generally require the implementation of preconstruction surveys and establishment of avoidance buffers as required. Specific MMs as described in detail in the 2010 MND include mitigation measures for San Joaquin kit fox (MM BIO-1 through MM BIO-9) and breeding bird/raptor measures (MM BIO-10). Designated wildlife corridors were not identified on the Original Project Site, and wildlife would continue to be able to access and move through the Original Project Site. In addition, no sensitive natural plant communities were identified within the Original Project Site. Riparian habitat located to the south of the Original Project Site would be avoided and not be impacted by construction or operational activities.

There is no fill or removal of any wetlands or other waters proposed in the Approved Project and there were no waters of the United States or state identified within the Original Project Site, and therefore impacts to federally protected wetlands were found to be less than significant.

Finally, the Approved Project was found to not have any impacts on, nor conflict with, other factors such as local policies and ordinances protecting biological resources, or any habitat conservation plans or natural community conservation plans.

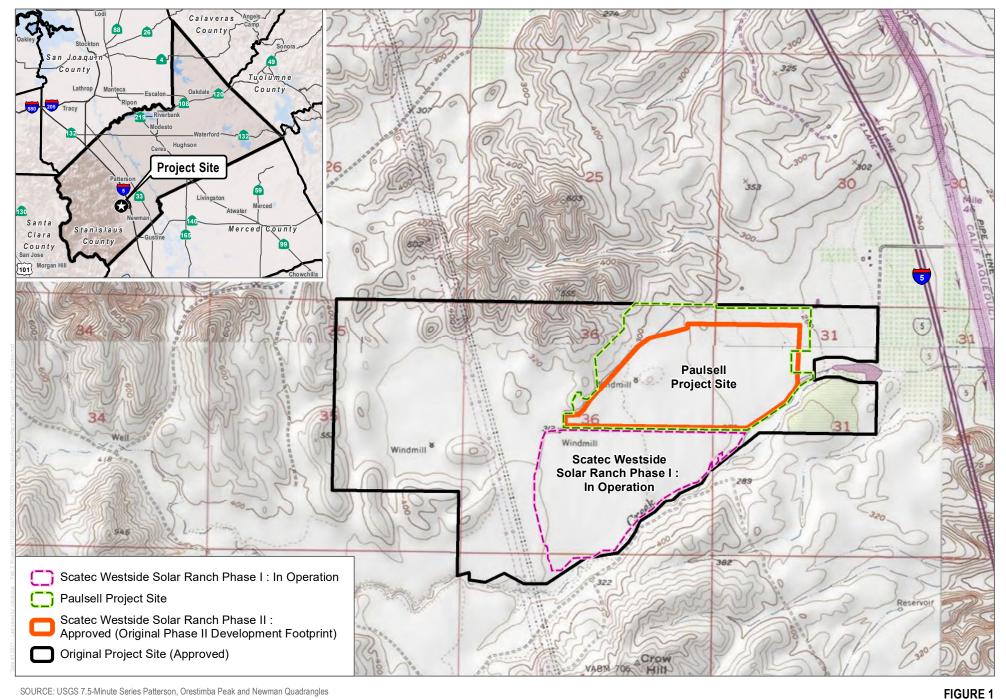
2 Location

The Paulsell Project Site is located west of Interstate 5, approximately 8 miles south of the City of Patterson, approximately 1 mile south of the Fink Road Landfill, and approximately 7 miles northwest of the City of Newman, in Stanislaus County, California (Figure 1). Portions of the Paulsell Project Site are currently developed as almond orchards and walnut orchards. Other portions of the Paulsell Project Site include cow pasture, horse pasture, and undeveloped land. The Paulsell Project Site is bordered by the Scatec Westside Solar Ranch Phase I project to the southwest, which is currently in operation; by the Fink Road Landfill and Covanta Waste-To-Energy Facility, Beltran Farms orchards, and cropland to the north; Interstate 5 to the east; and undeveloped land to the northwest, west, and south (Figure 2). A summary of specific Paulsell Project location attributes include the following:

- County: Stanislaus
- Section: 31 and 36; Township: 6S; Range: 7E and 8E
- U.S. Geological Survey 7.5-Minute Quadrangle: Patterson (northern section); Orestimba Peak (southern section)
- Latitude, Longitude: 37.373099°, -121.142490° (centroid)
- Average Elevation: 273 to 317 feet above mean sea level
- Project Area Total Acreage: 232

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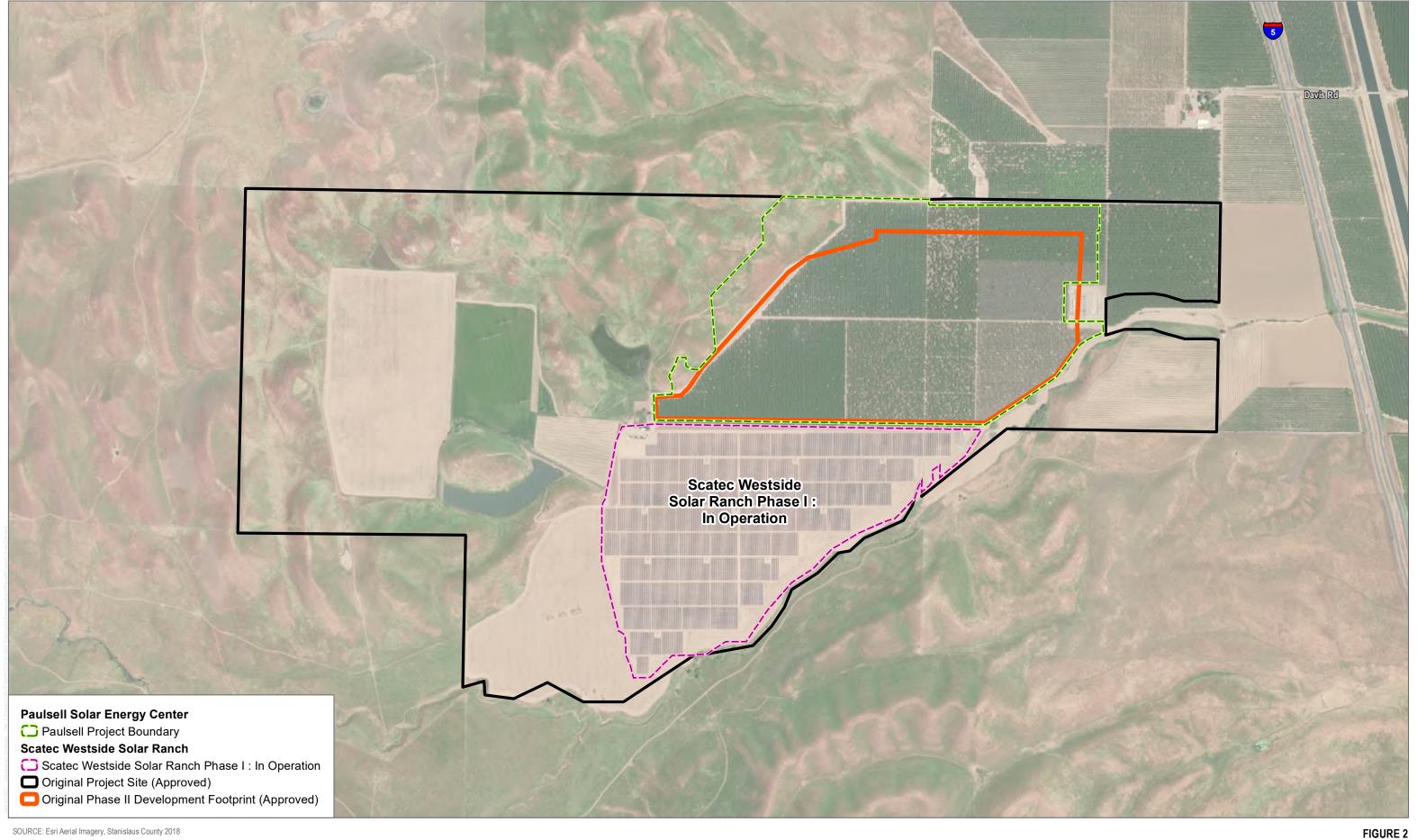


SOURCE: USGS 7.5-Minute Series Patterson, Orestimba Peak and Newman Quadrangles

Project Location

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SOURCE: Esri Aerial Imagery, Stanislaus County 2018

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3 Biological Setting

3.1 Climate

The climate of the Project region is typical of the Central Valley of California, with hot dry summers and cool, mild winters. Daytime temperatures in the summer are often in the upper 90° Fahrenheit, and some highs extend into the low 100s. Nighttime lows are typically in the 60s. In winter, daytime temperatures are usually in low 40s. Precipitation averages approximately 12 inches, and rainfall occurs mostly in the months of December and January.

3.2 Soils

According to the U.S. Department of Agriculture Natural Resources Conservation Service (USDA 2020a), there are five different soil units mapped within the Paulsell Project Site. Table 1 summarizes the soil mapping units and their associated drainage class, landform, and hydric status within the Paulsell Project Site.

Table 1. Summary of Soil Mapping Units

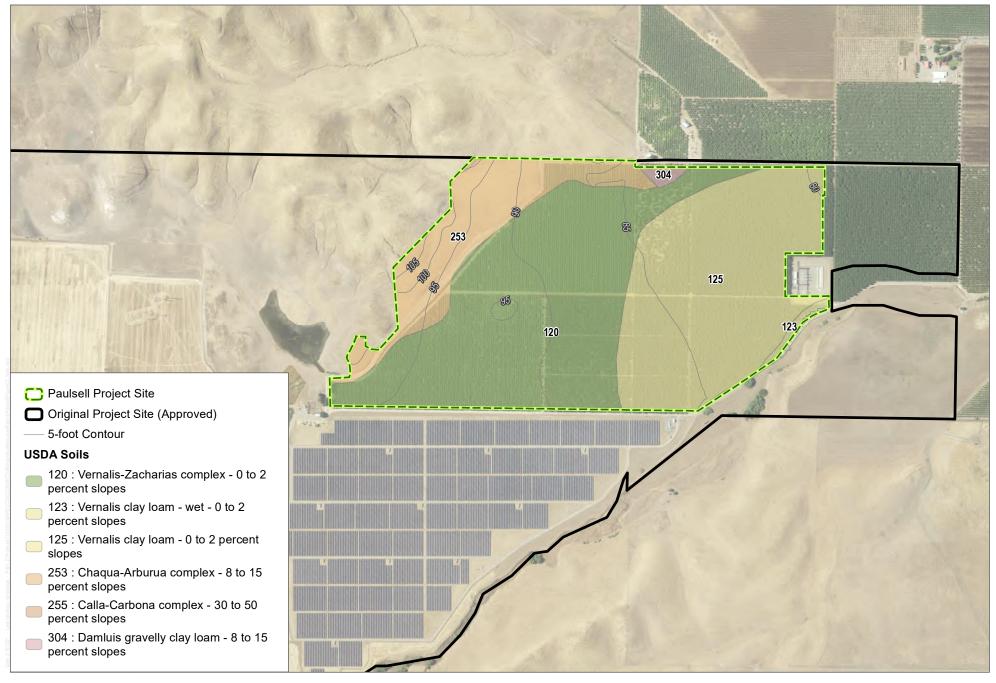
Soil Map Unit Name	Landform	Drainage Class	Hydric
Chaqua-Arburua Complex: 8 - 15 % slopes	Hills, terraces, backslope	Well-drained	No
Vernalis Clay Loam: 0 - 2% slopes	Alluvial fans, footslope	Well-drained	Yes
Vernalis Clay Loam (Wet): 0 - 2% slopes	Alluvial fans, footslope	Well-drained	Yes
Vernalis-Zacharias Complex: 0 - 2% slopes	Alluvial fans, footslope	Well-drained	No
Zacharias Clay Loam: 2 to 5% slopes	Alluvial fans, footslope, stream terraces, footslope	Well-drained	No

Source: USDA 2020a.

The majority of the Paulsell Project Site consists of two of the above-referenced soil units as follows: Vernalis-Zacharias Complex, which is well-drained soils formed in alluvium from mixed rock sources; and Vernalis Clay Loam, which consist of well-drained soils formed in alluvium from mixed sources (USDA 2020a). Figure 3 depicts the soil types and locations.

3.3 Topography

The Paulsell Project Site is located in the eastern foothills of the Diablo mountain range within a small valley between foothills to the north and south. The topography of the Paulsell Project Site is characterized by an overall gradual slope to the east. Elevations range from approximately 270 feet above mean sea level to approximately 320 feet above mean sea level. Figure 3 illustrates the general topography of the Paulsell Project Site.



SOURCE: USDA 2016, Stanislaus County 2018

FIGURE 3
Soils and Topographic Setting

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3.4 Land Uses

The Paulsell Project Site is located on the western edge of the San Joaquin Valley, where croplands of the valley floor transition to the rangelands of the inner Coast Ranges to the west. Land use in the Paulsell Project Site is primarily agricultural, including areas cultivated for nuts. As previously described, Phase I of the Approved Project has been completed and is currently an operational solar energy facility. The Phase II portion of the Approved Project is a current agricultural use consisting of walnut and almond trees.

The natural communities that were historically present have been substantially altered as a result of agricultural production activities. The Fink Road County Landfill, a Class II/III landfill for nonhazardous municipal solid waste, is located approximately 0.6 miles north. Dry, open, undeveloped land is present to the west. Crow Creek and other Nature Conservancy lands that the Approved Project has been designed to fully avoid are located to the south. I-5 and land used for agriculture are located to the east of the Paulsell Project Site. Scattered rural residences occur east of I-5.

3.5 Hydrologic Features

The Paulsell Project Site is located within the Crow Creek-San Joaquin River sub-watershed, and the Lower San Joaquin River parent watershed (CWIP 2020). The San Joaquin River flows from the Sierra Nevada mountain range west into the Central Valley of California. Crow Creek, which runs along the southern boundary of the Project Site, is a historic tributary to Orestimba Creek, which is a tributary of the San Joaquin River. During the literature and database review, wetland systems were historically mapped within the Paulsell Project Site based on the National Wetlands Inventory (USFWS 2020). This includes one type of wetland systems, as defined by the Cowardin Classification System (USFWS 1992): riverine. This region is subject to high agriculture activities and as such, various other water conveyance systems are present in region and Paulsell Project Site, such as irrigation ditches and canals, stock ponds, etc. More specifically, to the east of the Project Site and I-5, the Governor Edmund G. Brown California Aqueduct runs from north to south. West of this aqueduct is another conveyance system, the Delta Mendota Canal. Based on the review of historic and current aerial imagery, Crow Creek has been highly modified by agricultural practices and no longer contributes water to Orestimba Creek or the greater lower San Joaquin River watershed (Figure 4).

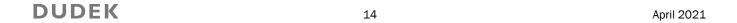
The hydrology within the Paulsell Project Site has been substantially altered by agricultural land uses and associated activities, such as leveling and ditching. Surface runoff from the site generally drains northeast/east through overland flow and constructed agricultural ditches. The Paulsell Project does not include changes to the existing drainage pattern.

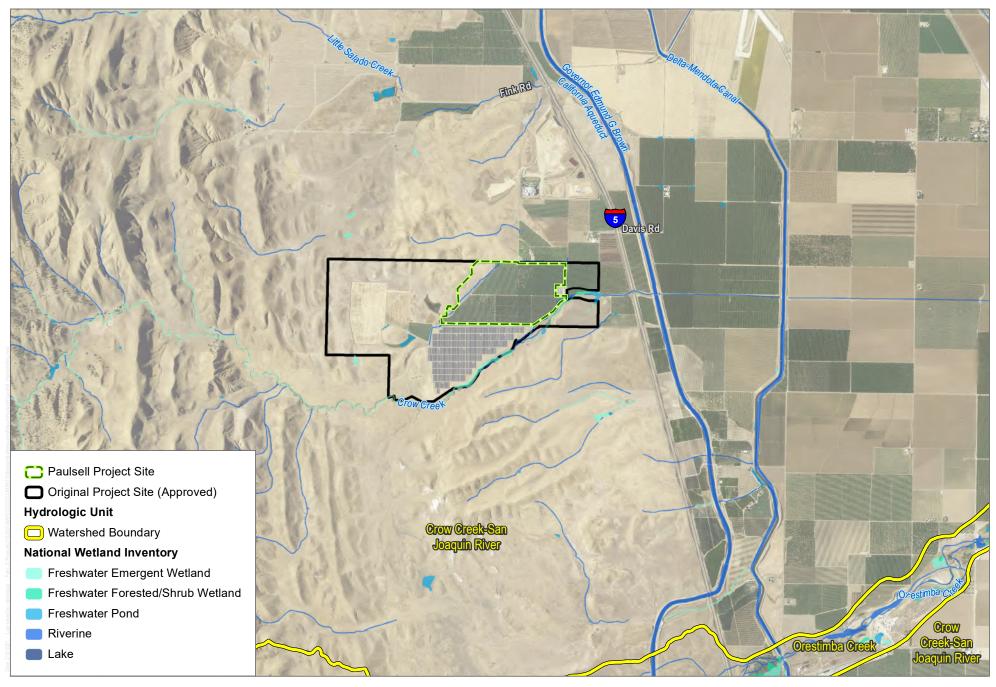
Generally, there are no wetlands or significant waterways within the boundaries of the Paulsell Project Site. The seasonal Crow Creek traverses the larger Beltran Farms property (through parcels APN 027-017-063 and APN 027-017-077); however, Crow Creek is not a part of the Paulsell Project Site. No runoff beyond the historic flow will leave the Paulsell Project Site, and no drainage structures are necessary to collect, control or divert any stormwater; additionally, no storage basins are proposed.

The Paulsell Project Site is currently within the Oak Flat Water District, which has a contract with the California State Department of Water Resources to purchase water from the California Aqueduct. As discussed in the 2010 MND, the proposed use for the Approved Project is a lawful use of water derived from the State Water Project. The amount

of water utilized for periodic panel washing is significantly less than that required for a full year of crop production, thus the Oak Flat Water District allocation, even with historical shortages, is sufficient to serve the Approved Project and thus, the proposed Paulsell Project. If the water allocation and water shortages intensify or are greatly diminished, there are two other options to provide adequate water for panel washing: (1) existing irrigation wells within the Beltran Farms property and (2) water imported via water trucks (Stanislaus County 2010).

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SOURCE: USDA 2016, Stanislaus County 2018, USFWS NWI 2019, USGS 2019

FIGURE 4

Hydrologic Setting

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4 Methods

Dudek conducted a literature review and subsequent focused surveys to determine the presence or absence of sensitive biological resources on the Paulsell Project Site. This section describes the literature review and methods of the field survey efforts conducted by Dudek.

4.1 Literature Review

Prior to conducting fieldwork, Dudek reviewed the following literature and natural resources databases to assess the potential for sensitive biological resources to occur within the Paulsell Project Site and immediate vicinity.

- Biological resources information contained in the Conditional Use Permit/Mitigated Negative Declaration –
 Beltran Ranch Solar Facility (Stanislaus County 2013)
 - Biological Resources Assessment, Beltran Ranch Solar Farm Project, Stanislaus County, California (WRA 2012)
- California Natural Diversity Database ("CNDDB"; CDFW 2020)
- USFWS IPaC Trust Resources Report (USFWS 2020a)
- California Native Plant Society ("CNPS") Inventory of Rare and Endangered Plants (CNPS 2020a)
- Calflora: Information about California Plants for Education, Research and Conservation (Calflora 2020)
- U.S. Geological Survey (National Hydrography Dataset (USGS 2020)
- USFWS National Wetlands Inventory (USFWS 2020b)
- U.S. Department of Agriculture, Natural Resources Conservation Service Web Soil Survey (USDA 2020a)

The CNDDB and CNPS database queries covered the Patterson and Orestimba Peak, California U.S. Geological Survey 7.5-minute quadrangles (the quadrangles within which the Paulsell Project Site are located) and the ten surrounding quadrangles. Updated queries of these databases, as well as the USFWS IPaC Trust Resources Report, were conducted in July 2020 to provide current information regarding occurrence of biological resources.

4.2 Field Surveys

Dudek conducted a suite of focused surveys and assessments to determine the presence or absence of sensitive biological resources. After conducting an initial reconnaissance-level biological survey, including vegetation mapping, in May 2019, Dudek conducted surveys for special-status species and other sensitive biological resources from March to July 2020. Focused surveys and assessments included special-status plant surveys, burrowing owl surveys, Swainson's hawk surveys, a California tiger salamander (*Ambystoma californiense*) habitat assessment, California red-legged frog (*Rana aurora draytonii*) habitat assessment, a San Joaquin kit fox assessment, and a delineation of waters of the United States and State. During all surveys, Dudek recorded all species encountered, including all incidental observations of special-status plants and wildlife.

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. Latin and common names for plant species with a California Rare Plant Rank ("CRPR"; formerly CNPS List) follow the CNPS Online Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2020a). For plant species without a

CRPR, Latin names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2020), and common names follow the List of Vegetation Alliances and Associations (CDFG 2010) or the U.S. Department of Agriculture Natural Resources Conservation Service Plants Database (USDA 2020b).

Wildlife surveys were conducted by qualified biologists using field methods appropriate to the target taxon. Latin and common names for vertebrate species referred to in this report follow Crother (2012) for amphibians and reptiles, Wilson and Reeder (2005) for mammals, and the American Ornithological Society Checklist of North and Middle American Birds (Chesser et al. 2020) for birds.

Dudek conducted an initial reconnaissance-level biological survey in May 2019 to identify vegetation communities and the potential occurrence of special-status plants and wildlife. The purpose of the reconnaissance-level biological survey conducted in May 2019 was to survey the Paulsell Project Site. The potential for special-status plant and wildlife species to occur was assessed based on vegetation communities present and other factors. The reconnaissance-level biological survey included a search for aquatic resources potentially subject to regulation by the U.S. Army Corps of Engineers ("USACE"), the Regional Water Quality Control Board ("RWQCB"), or CDFW. Pedestrian transects were conducted throughout the Paulsell Project Site.

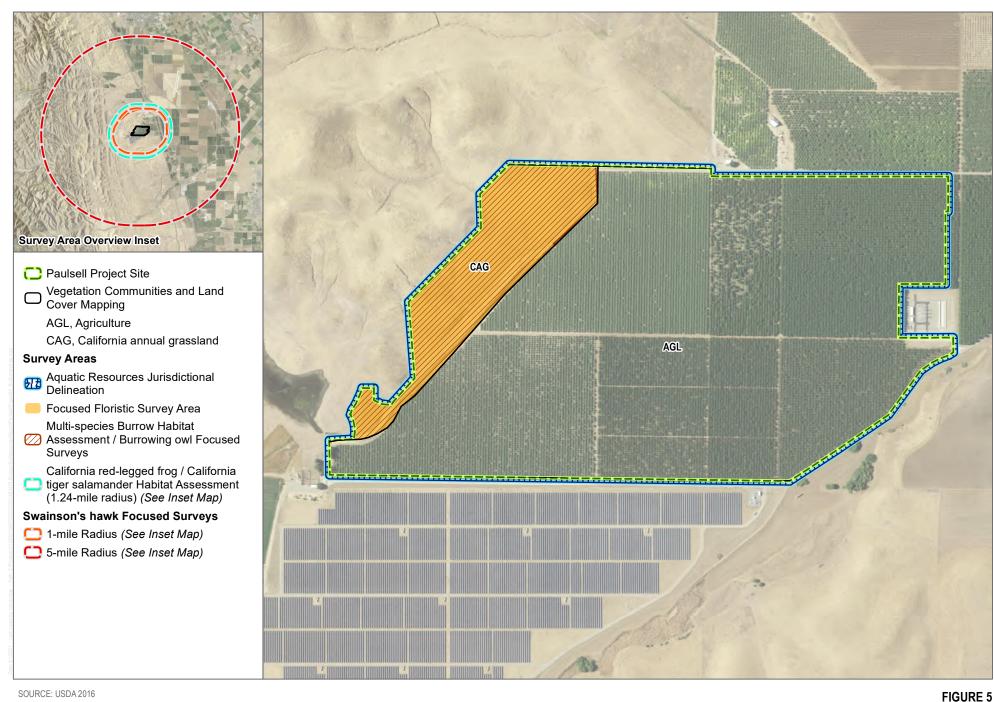
Figure 5 illustrates the locations and extents of focused field survey efforts conducted on the Paulsell Project. Cumulative lists of plant and wildlife species observed during the field surveys are included in Appendix A and Appendix B, respectively. Representative photographs of the Paulsell Project Site collected during the field surveys are provided in Appendix C. Appendix D summarizes the results of the potential for special-status plant and wildlife species to occur within the Paulsell Project Site.

4.2.1 Vegetation Community and Land Cover Mapping

Dudek conducted vegetation mapping to characterize current conditions and dominant natural communities on the Paulsell Project Site. Vegetation mapping was conducted consistent with Vegetation Alliances and Associations: Natural Communities List Arranged Alphabetically by Life Form (Natural Communities List; CDFG 2010) based on *A Manual of California Vegetation*, second edition (Sawyer et al. 2009), the California expression of the National Vegetation Classification Standard, Version 2 (FGDC 2008). 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. Subsequent to Dudek's vegetation mapping effort, CDFW updated the list (CDFG 2010) as the California Natural Communities List (CDFW 2019a), which incorporated changes based on taxonomic revisions related to dominant plants, reassignment of associations to new or different alliances, and revisions to the rarities rankings of some communities. In addition, CNPS has made available an online version of *A Manual of California Vegetation* (CNPS 2020b). Dudek's vegetation map and nomenclature reflect revisions in the CDFW (2019a) update and in CNPS (2020b). Both CNPS (2020b) and CDFW (2019a) provide rarity rankings of native vegetation communities. In both sources, natural communities with ranks of S1 to S3 are considered sensitive.

At the time of the 2019 site reconnaissance, vegetation mapping was conducted partially via walking the site and remaining areas via windshield surveys, which covered 100% of the Paulsell Project Site. A scaled color aerial photograph base map (Bing Maps 2019) with an overlay of the Paulsell Project Site was used to map vegetation communities. 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 vegetation communities.

Vegetation communities were classified based on site factors, descriptions, distribution, and characteristic species present within an area. Where the vegetation communities or land covers observed in the field did not match those



SOURCE: USDA 2016

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described in CNPS (2020b) and CDFW (2019a), Dudek generated additional site-specific vegetation community or land cover classifications, where necessary.

4.2.2 Floristic Surveys for Special-Status Plant Species

Based on a literature review, Dudek developed a list of special-status plant species that have occurred, or that could occur, within or near the Paulsell Project Site. Based on the blooming periods of the species identified in the literature review, Dudek biologists conducted seasonally timed floristic surveys of the Paulsell Project Site during March, April, and June 2020.

Potential reference populations for the target special-status plant species potentially occurring on the site were identified through an analysis of past records documented in the CNDDB (CDFW 2020) and CCH online database (CCH 2020). Dudek botanist Laura Burris visited reference populations for spiny-sepaled button-celery (*Eryngium spinosepalum*) located approximately 20 south of the site on May 22, 2020. The plants were identifiable at the time of the visit. Reference populations for the remaining species were either historic and no longer present at that location or located on private land and were inaccessible.

Dudek botanists Laura Burris, Heather Moine, Cecile Shohet, and Tanya Baxter conducted the first rare plant surveys from March 30 through April 3, 2020, and a second, late season survey was conducted by Ms. Burris, Paul Keating, Anna Godinho, and Ms. Baxter on June 4 and 5, 2020. The rare plant surveys followed recommended methodology described in the California Native Plant Society's Botanical Survey Guidelines (CNPS 2001), the California Department of Fish and Wildlife's Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Natural Communities (CDFW 2018b), and the U.S. Fish and Wildlife Service's Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed and Candidate Plants (USFWS 2000).

The rare plant surveys were floristic in nature and consisted of walking meandering transects. The timing of the surveys was such that species with potential to occur on the site would be evident and identifiable. All botanical resources were identified to a level necessary to determine rarity and botanical nomenclature follows The Jepson Online Interchange Project (Jepson Flora Project 2020). When appropriate for identification, specimens were collected for further study in a lab setting.

With the exception of the population of spiny-sepaled button-celery visited on May 22, 2020, potential local reference populations for special-status species are primarily located on inaccessible private land or public land with restricted access, and so were not visited; however, dates of identification and collection of herbarium specimens coincided with the timing of the 2020 survey, as described above (CCH 2020). Thus, the surveys were conducted within a period when all potentially occurring special-status plant species would be evident and identifiable (CNPS 2019b).

4.2.3 California Tiger Salamander Habitat Assessment

Dudek collected preliminary information for the California tiger salamander habitat assessment during the initial reconnaissance-level biological survey and vegetation mapping, during which Dudek biologists either walked or drove the entire site to assess the vegetation communities and potential habitat for special-status plant and wildlife species.

The site assessment was conducted according to requirements of the USFWS guidance (USFWS 2003). Dudek consulted the CNDDB (CDFW 2020) for known occurrences within 1.24 miles (2.0 kilometers) of the Paulsell Project Site and reviewed Google Earth aerial imagery (Google Earth 2020) of the surrounding area for information on off-site habitats and areas potentially supporting suitable pooling for California tiger salamander breeding. Dudek then visited areas

within proximity to the site that potentially supported aquatic habitat and assessed the locations as potential breeding habitat for California tiger salamander. Vegetation mapping and observations during burrowing owl and San Joaquin kit fox burrow surveys supported the assessment of the site as potentially supporting upland habitat.

4.2.4 California Red-Legged Frog Habitat Assessment

Dudek collected preliminary information for the California red-legged frog habitat assessment during the initial reconnaissance-level biological survey and vegetation mapping. Dudek reviewed data on vegetation and aquatic resources, to determine areas where further investigations were required for assessment of the site as supporting potential California red-legged frog aquatic breeding habitat. Dudek also examined aerial photographs of the vicinity and reviewed the CNDDB for occurrences of California red-legged frog within 1.24 miles (2 kilometers) of the Paulsell Project Site, as required by the Revised Guidance on Site Assessments and Field Surveys for California Red-legged Frog (USFWS 2005). During the field assessment, Dudek visited the previously identified aquatic habitats and inspected these locations for characteristics indicative of suitable habitat for California red-legged frog. These characteristics included aquatic habitat type and seasonality (permanent, ephemeral, intermittent); water depth, estimated maximum pool depth, bank gradient, and substrate type(s); approximate drying date of water body, if applicable; upland vegetation type and/or plant communities; and shoreline features. Dudek also examined aquatic habitats in proximity to the Paulsell Project Site for evidence of California red-legged frog predators and competitors and characterized surrounding upland habitats, land uses, and potential movement barriers.

4.2.5 Multi-Species Burrow Habitat Assessment

Dudek biologists conducted a multi-species burrow habitat assessment on March 9, 2020 for suitability/use by American badger (*Taxidea taxus*), burrowing owl, coyote (*Canis latrans*), and San Joaquin kit fox (kit fox). The burrow habitat assessment consisted of single pedestrian transects of all potentially suitable habitat for American badger, burrowing owl, and kit fox. Because the Paulsell Project Site is currently used for active crop production and agricultural management activities, the survey area was limited to the California annual grassland vegetation community and roadsides surrounding the Paulsell Project Site (Figure 5).

Dudek biologists conducted pedestrian transects, spaced approximately 20 meters (66 feet) apart and during these transects inspected all areas of the ground surface between transect lines to ensure full visual coverage. When any burrow measuring a minimum of 4 inches in diameter was located, the biologists recorded the location of the burrow, burrow dimensions, any sign of recent activity, and any other sign to indicate species involved. 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 burrows were marked using ESRI ArcGIS Collector.

Additional considerations for burrowing owl and kit fox following current federal and state guidance is provided in the following sections.

4.2.5.1 Burrowing Owl

CDFW identifies burrowing owl as a California Species of Special Concern. CDFW has established a habitat assessment protocol for the species, which is included in Appendix D of the Staff Report on Burrowing Owl Mitigation (CDFG 2012). Based on vegetation maps and the reconnaissance-level site assessment conducted in May 2019, the locations of all suitable vegetation communities (grassland, agriculture, and disturbed) were

identified for further evaluation. Most areas mapped as "agriculture" on the Paulsell Project Site were then eliminated as unsuitable, as most were existing orchards. The remaining areas, mostly roadsides and disturbed grassland patches, were initially identified as potential habitat and included within the field habitat assessment area (Figure 5). During the habitat assessment conducted in March 2020, Dudek biologists walked straight-line transects with a maximum spacing of 20 meters (approximately 66 feet). Biologists marked the location of all burrows approximately 4 inches or greater at the entrance, in 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 owls were recorded. Surveys were mostly conducted in hours when burrowing owls are active, from approximately 6:00 a.m. until approximately 10:00 a.m.

4.2.5.2 San Joaquin Kit Fox

Listed as endangered under the federal Endangered Species Act ("ESA") and threatened under the California Endangered Species Act ("CESA"), the San Joaquin kit fox is protected by federal and state statutes. USFWS has established the San Joaquin Kit Fox Survey Protocol for the Northern Range (USFWS 1999) as the standard for conducting habitat assessments and surveys for the subspecies throughout its range. The survey protocol calls for an early evaluation of a site and its potential to support San Joaquin kit fox to determine whether protocol surveys are necessary. An initial reconnaissance survey was conducted to assess the existing biological conditions on May 29, 2019. The majority of the site was initially reviewed through windshield surveys along farm access roadways. Based on the initial reconnaissance-level survey, which found some suitable habitat occurring on site (i.e., along roadsides and within disturbed grassland areas), and because San Joaquin kit foxes were known to have occurred in the vicinity of the site (CDFW 2020), a focused burrow assessment was determined necessary.

According to the San Joaquin Kit Fox Survey Protocol for the Northern Range (USFWS 1999), burrows 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, and/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 were not confirmed to have been excavated by the species identified due to a lack of definitive sign.

4.2.6 Burrowing Owl Focused Surveys

Breeding-season burrowing owl surveys were conducted in suitable habitat on the large Beltran Farms property, including the Paulsell Project Site, between early March and late June 2020 per guidelines for breeding-season surveys in Appendix D of the Staff Report on Burrowing Owl Mitigation (CDFG 2012). Based on the habitat assessment conducted in March 2020, the locations of all potentially suitable habitat were identified for the focused burrowing owl surveys. Similar to the habitat assessment effort, teams of Dudek biologists established straight-line walking transects, with a maximum spacing of 20 meters (approximately 66 feet). Burrows were investigated for burrowing owl sign, including regurgitated castings (pellets) of prey remains, scat (whitewash), and feathers, and the locations of any burrowing owls were recorded. Surveys were mostly conducted in hours when burrowing owls are active, from approximately 6:00 a.m. until approximately 10:00 a.m.

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 currently unsuitable. Biologists employed the same methods in additional passes as were used in the initial pass, focusing on the presence of burrowing owl sign and

burrowing owls. Per guidelines in CDFG (2012), the initial survey pass was conducted in early March 2020 (prior to April 15). Three additional survey passes were conducted between April 2020 and June 19, 2020, with each of the four passes separated by at least 3 weeks.

4.2.7 San Joaquin Kit Fox Scat Surveys

In addition to the pedestrian-based burrow surveys described above, a focused survey to detect San Joaquin kit fox scat on the Paulsell Project Site was conducted using profession scat detection dog teams. This reliable method for detecting San Joaquin kit fox has been implemented for other local projects at the recommendation of the USFWS. The professional scat detection dog teams were deployed in October 2020 to obtain information on San Joaquin kit fox use of the Paulsell Project Site. Formally trained dogs and their handlers were used to specifically detect scat of the San Joaquin kit fox. Transect routes were established throughout the survey area, spaced approximately 200 meters apart. Three detection dog-biologist/handler teams conducted the surveys. The handler walked the transect line noting any visual or auditory observations while the dog ranged and quartered ahead of the handler to search for target odors, scents, or scats. If scats were detected, the handler collected the scat, preserved the sample, and then submitted the sample immediately following the survey for DNA analysis to rapidly and accurately assess presence of San Joaquin kit fox. Additional detail regarding survey methodology is provided in Appendix E.

4.2.8 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 each of two survey periods: April 5 to April 20 (Period III per SHTAC 2000) and June 10 to July 31 (Period V). 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 (Period III), Swainson's hawks should be detected relatively easily during this period. 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.

During the April 5 to April 20 survey period, when Swainson's hawks are generally paired, actively nest building, and frequently visiting the nest site, surveys focused on nest building, breeding behavior, and locating nest structures. During the June 10 to July 31 survey period (Period V), when young are generally present and visible and adults are making frequent trips to the nests to feed their young, surveys focused on visiting occupied nest sites identified in the previous period to determine the current status of the nests. Additionally, surveys focused on searching for previously undetected nests by searching for nestlings, fledglings, and adults displaying behaviors (agitation, calling frequently while flying overhead) indicative of individuals that are actively nesting. All surveys included visits in the morning (dawn to late morning or noon) and evening (approximately 4:00 p.m. to sunset). As other biological surveys were being conducted during the spring and summer 2020, biologists also recorded Swainson's hawk observations and behavior incidentally during these surveys. Information gained in this fashion was also used to inform focused surveys.

During each survey, biologists visited locations where suitable trees had been identified on the Paulsell Project Site and within approximately 1 mile of the Paulsell Project Site. Locations of Swainson's hawks, suitable nest structures, and confirmed, active Swainson's hawk nests were noted. Swainson's hawk behaviors, particularly any behaviors relating to nesting, were noted. Surveyors examined trees and tree clusters along Crow Creek, within the riparian habitat bordering the constructed farm pond to the north, around off-site farm residences and compounds, within wind breaks near the Paulsell Project Site, and elsewhere within 1 mile of the Paulsell Project Site. Where

possible, trees, tree clusters, and riparian areas 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. In addition, because orchards are not typically considered suitable nesting habitat for this species in the Central Valley, surveys did not focus on finding Swainson's hawks nesting in orchards. Orchards were investigated on a reconnaissance-level basis during driving surveys; however, orchards were not walked or investigated thoroughly for Swainson's hawk nesting activity if no Swainson's hawk activity was observed.

After Swainson's hawk nests were identified, surveyors continued to visit the nest site at least once per survey to note the stage of nesting. Surveyors also continued to examine other suitable trees where Swainson's hawk nests had not been located, to search for evidence of nesting.

4.2.9 Potentially Jurisdictional Aquatic Resources

Dudek biologists Laura Burris, Paul Keating, Anna Godinho, and Natalie Luong visited the Paulsell Project Site on March 24 and 25, 2020 to investigate and identify potential jurisdictional aquatic resources including wetlands, streams, and creeks, among other aquatic features. All areas that were identified as being potentially subject to the jurisdiction of the USACE, RWQCB, and CDFW were field verified and mapped.

4.2.9.1 Waters of the United States

A federal Aquatic Resources Delineation ("federal Delineation") was conducted for the Paulsell Project in accordance with the USACE Wetlands Delineation Manual ("Manual") (USACE 1987); the Regional Supplement to the USACE Wetland Delineation Manual: Arid West Region, Version 2.0 ("Regional Supplement") (USACE 2008a); and A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western U.S. ("OHWM Guide") (USACE 2008b). Dudek conducted a federal Delineation on March 24 through 26, 2020, for the purpose of identifying aquatic resources within the Paulsell Project Site potentially subject to the USACE jurisdiction under Section 404 of the Clean Water Act ("CWA") based on field observations of positive indicators for wetland vegetation, hydrology, and soils; and indicators of an OHWM.

Taxonomic nomenclature for plant species is in accordance with The Jepson Manual: Vascular Plants of California (Baldwin et al. 2012). The habitat types occurring in the Project Site were characterized according to pre-defined plant community and alliance classifications categorized by CDFW and CNPS in A Manual of California Vegetation (Sawyer et al. 2009), and the CNPS Manual of California Vegetation Online (CNPS 2020). Wetland indicator status for plant species was confirmed using The National Wetland Plant List (Lichvar et al. 2016).

The Paulsell Project Site was investigated on foot and sample data was collected on vegetation, soils, and hydrology using the protocols as described in the Manual and Regional Supplement. Coordinates of each sample point (i.e., location) were recorded in the field using a Trimble Geo 7X GPS unit with sub-meter accuracy.

4.2.9.2 Waters of the State

A state Aquatic Resources Delineation (state Delineation) was conducted for the Paulsell Project in accordance with the USACE Manual (USACE 1987); the Regional Supplement (USACE 2008a); and OHWM Guide (USACE 2008b). Dudek conducted a state Delineation on March 24 through 26, 2020, for the purpose of identifying aquatic resources within

the Paulsell Project Site potentially subject to the jurisdiction of the State of California under CWA Section 401, California Fish and Game Code Section 1600 et seq., and the Porter-Cologne Water Quality Control Act.

For the purposes of identifying potentially jurisdictional wetlands and waters of the state for CDFW in compliance with California Fish and Game Code Section 1602, Dudek delineated the top of bank for stream and channels or the limit of the adjacent riparian vegetation, whichever was greater. Taxonomic nomenclature for plant species was in accordance with The Jepson Manual: Vascular Plants of California (Baldwin et al. 2012). The habitat types occurring in the Paulsell Project Site were characterized according to pre-defined plant community and alliance classifications categorized by CDFW and CNPS in A Manual of California Vegetation (Sawyer et al. 2009), and the CNPS Manual of California Vegetation Online (CNPS 2020). Wetland indicator status for plant species was confirmed using The National Wetland Plant List (Lichvar et al. 2016).

For the purposes of identifying potentially jurisdictional wetlands and waters of the state for the RWQCB in compliance with CWA Section 401 and the Porter-Cologne Water Quality Control Act, the field delineation methods implemented were consistent with the approach outlined in the Manual (USACE 1987), Regional Supplement (USACE 2008a), and the OHWM Guide (USACE 2008b). The assessment relied on field observations of positive indicators for wetland vegetation, hydrology, and soils; and indicators of an OHWM. Areas regulated by the RWQCB are generally coincident with the USACE, but include features isolated from navigable waters of the United States that have evidence of surface water inundation.

The Paulsell Project Site was investigated on foot, and sample data was collected on vegetation, soils, and hydrology using the protocols as described in the Manual and Regional Supplement. Coordinates of each sample point (i.e., location) was recorded in the field using Trimble Geo 7X GPS unit with sub-meter accuracy.

5 Results

This section discusses results of the literature review and focused biological surveys conducted in 2020 and the reconnaissance-level survey conducted in 2019. Table 2 includes a summary of biological surveys conducted by Dudek in 2019 and 2020, including the dates, personnel, and conditions. Cumulative lists of plant and wildlife species observed during the field surveys are included in Appendix A and Appendix B, respectively. Representative photographs of the Paulsell Project Site collected during the field surveys are provided in Appendix C.

Table 2. Summary of Biological Surveys, Personnel, and Conditions

Table 2. Gammar, or Diological California, and Communication									
Date	Focus	Time	Personnel	Site Conditions					
5/29/2019	Reconnaissance-level survey, vegetation community/land cover mapping, habitat assessments	0900-1630	ES, RH	65-85°F, 10%-20 % cloud cover, 5-10 mph winds					
04/09/2020	CTS/CRLF focused habitat assessment	0930-1615	ES	48-56°F, 90-100% cc, 3-5 mph winds					
03/30/2020	Focused botanical survey (Pass #1)	0815-1555	CS, LB, TB	55-69°F, 0-50% cc, 1-5 mph winds					
06/05/2020	Focused botanical survey (Pass #2)	0630-1430	AG, LB, PK, TB	69-95°F, 0% cc, 1-5 mph winds					
03/09/2020	Multi-species burrow habitat assessment; BUOW focused survey (Pass #1)	0700-1630	RS, ML, ES, TY	56-66°F, 50-70% cc, 0-5 mph winds					
04/15/2020	BUOW focused survey (Pass #2)	0645-1538	ML, PK, ES, TY	58-82°F, 0-10% cc, 0-5 mph winds					
05/07/2020	BUOW focused survey (Pass #3)	0630-1500	ML, PK, ES, TY	66-90°F, 10% cc, 10-15 mph winds					
06/18/2020	BUOW focused survey (Pass #4)	0630-1430	ML, PK, ES, TY	66-91°F, 0-10% cc, 5-13 mph winds					
04/07/2020	SWHA (Pass #1)	1635-1930	DC	62-66°F, 10% cc, 4-8 mph winds					
04/09/2020	SWHA (Pass #2)	1615-1940	ES	50-56°F, 90-95% cc, 3-5 mph winds					
04/14/2020	SWHA (Pass #3)	1633-1933	DC	69-79°F, 0% cc, 1-12 mph winds					
06/11/2020	SWHA (Pass #4)	1635-2015	ES	79-64°F, 30-35% cc, 5-13 mph winds					
06/21/2020	SWHA (Pass #5)	1600-2020	PG	93-97°F, 0-10% cc, 0-10 mph winds					
06/29/2020	SWHA (Pass #6)	1620-2015	ES	82-85°F, 0% cc, 3-10 mph winds					

Notes:

Focus: BUOW = burrowing owl; SWHA = Swainson's hawk

Personnel: AG = Anna Godinho; CS = Cecile Shohet; DC = Dave Compton; ES = Emily Scricca; HM = Heather Moine; LB = Laura Burris; ML = Michelle Leis; PD = Pedro Garcia; PL = Paul Keating; RH = Ryan Henry; RS = Russell Sweet; TB = Tanya Baxter; and TY = Tyler Young Site Conditions: cc = cloud cover; mph = miles per hour

5.1 Vegetation Communities and Land Cover Types

Vegetation mapping was conducted consistent with the Natural Communities List (CDFG 2010), which organizes alliances and their associations within three life forms, or formation classes: forest and woodlands, shrubland, and

herbaceous. Because the Natural Communities List does not classify non-natural land covers or unvegetated communities, a fourth group was added for organization purposes: non-natural land covers.

The Paulsell Project Site consists of a combination of natural vegetation communities and non-natural land cover types. Natural vegetation communities identified within the Paulsell Project Site include California annual grassland and black willow thicket. A non-natural land cover type identified within the Paulsell Project Site includes agriculture. Table 3 provides a summary of acreages for each vegetation community alliance/association and land cover identified on the Paulsell Project Site. Vegetation communities listed in the table generally include alliances and associations, but may also include general mapping units. The vegetation communities and land cover types observed within the Paulsell Project Site are shown on Figure 6.

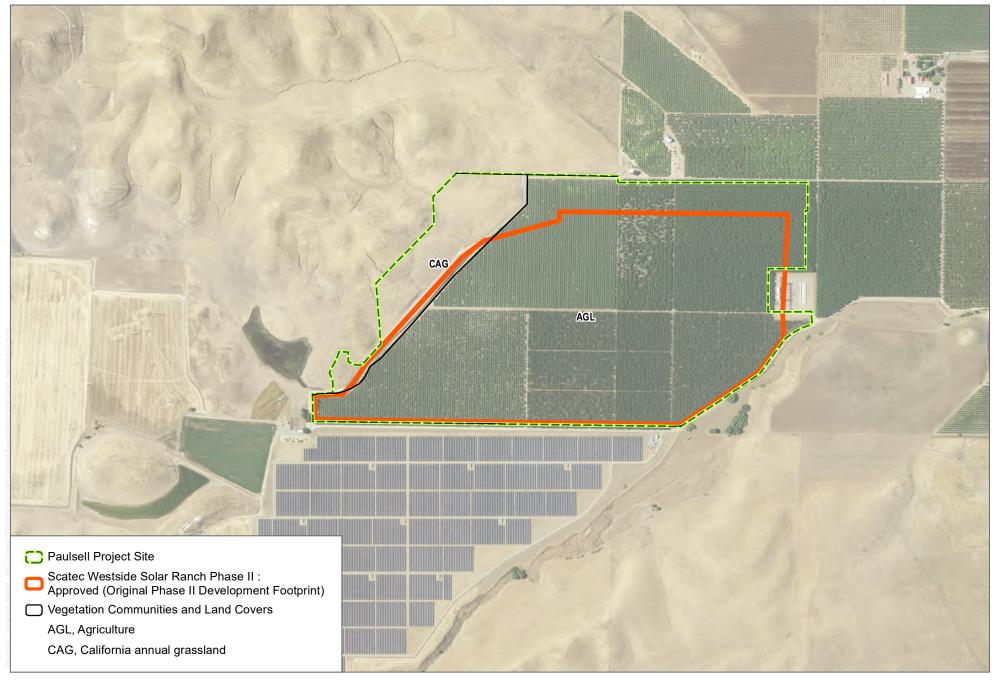
Table 3. Summary of Vegetation Communities and Land Cover Types

Vegetation Communities / Land Cover Types	Rarity Rank ¹	Total (acres) ²					
Herbaceous Alliances and Stands							
California Annual Grassland	_	30.68					
Non-Natural Land Covers							
Agriculture	_	201.65					
	Total	232.33					

Notes:

- Sensitivity rating according to CDFG (2010).
 State Rank the alliance's rarity and threat in California.
 \$3: 21-100 viable occurrences statewide, and/or more than 2,590-12,950 hectares
- The vegetation communities and land cover types boundary (acres) has been estimated based on GIS data, aerial imagery, and in-field measurements.

Descriptions of the vegetation communities and land covers are organized by the three formation classes and the fourth category, non-natural land covers/unvegetated communities, and then by formation. Within each formation, the alliances and associations are organized alphabetically followed by mapping units. Unless noted otherwise, the vegetation alliance and associations are included in the Natural Communities List (CDFG 2010). Descriptions also include discussions on the sensitivity of the communities, based on rankings by CNPS (2019a), CDFW (2018), and the Stanislaus County General Plan (Stanislaus County 2015).



SOURCE: USDA 2016, Stanislaus County 2018

FIGURE 6
Vegetation Communities and Land Covers

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5.1.1 Herbaceous Alliances and Stands

California Annual Grassland

California annual grassland is dominated by annual grasses and herbs in the ground layer including bromes (*Bromus* sp.), California poppy (*Eschscholzia californica*), filaree (*Erodium* sp.), lupine (*Lupinus* sp.), mustards (*Brassica* sp.), and oat (*Avena* sp.). Vegetation community composition within the Paulsell Project Site coincided with this vegetation community description, as no other vegetation alliance or association appropriately characterized current site conditions. The only other vegetation community recognized by the Natural Communities List is annual brome grasslands. This community is characterized by the dominance of several species of annual brome grasses, but grassland communities on the site are more diverse. Although annual brome grasses and wild oat grassland form the dominant portion of the plant species composition, native annual forbs constitute a significant cover.

California annual grassland (annual brome grasslands) does not have a rarity ranking and is not considered a sensitive vegetation community within the Stanislaus County General Plan (Stanislaus County 2015).

5.1.2 Non-Natural Land Covers

Agriculture

The agriculture land cover is an anthropogenic mapping unit and is not recognized by the Natural Communities List (CDFG 2010). This mapping unit identifies areas where various types of food production and harvesting, including dryland field crops, are actively being conducted. These areas may also support non-native grass species and have little biological resource value due to the limited habitat value provided for most native species. The agriculture land cover within the Paulsell Project Site included areas of active almond orchards that were being irrigated and managed with herbicide applications.

Agriculture land cover does not have a rarity ranking and is not considered a sensitive vegetation community within the Stanislaus County General Plan (Stanislaus County 2015).

5.2 Special-Status Biological Resources

5.2.1 Sensitive Vegetation Communities

No sensitive natural communities occur within the Paulsell Project Site.

5.2.2 Special-Status Plants

Based on Dudek's literature review and associated habitat suitability analysis, a total of 22 special-status plant species were identified as having potential to occur on the Paulsell Project Site. Appendix D lists the 22 special-status plant species, describes habitat requirements, and assesses their potential to occur. None of these 22 special-status plant species were observed within the Paulsell Project Site during the field surveys conducted for the Paulsell Project.

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Sixteen of these species were eliminated from further consideration based on the absence of suitable habitats, soils, or the site's location outside of known elevation ranges. The remaining six species were determined to have a moderate to high potential to occur. All six species are CRPR 1B species, which are considered "rare, threatened, or endangered in California and elsewhere." These species include the following: heartscale (*Atriplex cordulata* var. *cordulata*); lesser saltscale (*Atriplex minuscula*); big tarplant (*Blepharizonia plumose*), Lemmon's jewelflower (*Caulanthus lemmonii*); diamond-petaled California poppy (*Eschscholzia rhombipetala*); and showy golden madia (*Madia radiata*).

All species observed within the Paulsell Project Site during the 2020 surveys were identified to the lowest taxonomic level to determine rarity and are included in Appendix A of this report. A total of 141 species of native or naturalized plants, 72 native (51%) and 69 non-native (49%), were identified during the 2020 surveys. No special-status plant species were detected within the Paulsell Project Site during the focused botanical surveys conducted within the appropriate blooming periods.

The following discussion describes the six special-status plant species determined to have a moderate to high potential to occur within the Paulsell Project Site.

5.2.2.1 Heartscale

Heartscale is an annual herb known to occur in chenopod scrub, meadows and seeps, Valley and foothill grassland with sandy, saline or alkaline soils from approximately sea level to 1,835 feet above mean sea level. This species blooms from April through October (CNPS 2019a).

Heartscale has a moderate potential to occur onsite. Annual grassland in the project area provides potential habitat for this species. However, the only documented occurrence within the 12-quad search area is believed to be extirpated (CDFW 2019). Heartscale was not observed during the focused botanical field surveys.

5.2.2.2 Lesser Saltscale

Lesser saltscale is an annual herb known to occur in chenopod scrub, playas, Valley and foothill grassland with alkaline and/or sandy soils from 45 to 655 feet above mean sea level. This species blooms from May through October (CNPS 2019a).

Lesser saltscale has a moderate potential to occur onsite. Valley and foothill grassland in the project area provides potential habitat for this species. One occurrence was documented approximately seven miles northeast of project area (CDFW 2019). Lesser saltscale was not observed during the focused botanical field surveys.

5.2.2.3 Big Tarplant

Big tarplant is an annual herb known to occur in Valley and foothill grassland with usually clay soils from 95 to 1,655 feet above mean sea level. This species blooms from July through October (CNPS 2019a).

Big tarplant has a high potential to occur onsite. Annual grassland with some clay soils provide potential habitat for this species. The closest occurrence was documented approximately four miles northwest of the project area in 2005 (CDFW 2019). Big tarplant was not observed during the focused botanical field surveys.

5.2.2.4 Lemmon's Jewelflower

Lemmon's jewelflower is an annual herb known to occur in pinyon and juniper woodland and Valley and foothill grassland from 260 to 5,185 feet above mean sea level. This species blooms from February through May (CNPS 2019a).

Lemmon's jewelflower has a moderate potential to occur onsite. Annual grassland provides potential habitat for this species. However, both occurrences documented within the 12-quad search are historical in nature (CDFW 2019). Lemmon's jewelflower was not observed during the focused botanical field surveys.

5.2.2.5 Diamond-Petaled California Poppy

Diamond-petaled California poppy is an annual herb known to occur in Valley and foothill grassland with alkaline and clay soils, from mean sea level to 3,200 feet above mean sea level. This species blooms from March through April (CNPS 2019a).

Diamond-petaled California poppy has a moderate potential to occur onsite. Annual grassland with some clay soils provide potential habitat for this species. One historical occurrence was documented approximately six miles north of the project area in 1940 (CDFW 2019). Diamond-petaled California poppy was not observed during the focused botanical field surveys.

5.2.2.6 Showy Golden Madia

Showy golden madia is an annual herb known to occur in cismontane woodland and Valley and foothill grassland from 80 to 3,965 feet above mean sea level. This species blooms from March through May (CNPS 2019a).

Showy golden madia has a moderate potential to occur onsite. Annual grassland provides provide potential habitat for this species. Only one historical occurrence was documented within the 12-quad search (CDFW 2019). Showy golden madia was not observed during the focused botanical field surveys.

5.2.3 Special-Status Wildlife

For the purposes of this report, special-status wildlife species are those that are designated as either rare, threatened, or endangered (or candidate) by CDFW or USFWS and are protected under either the CESA (California Fish and Game Code Section 2050 et seq.) or ESA (16 USC 1531 et seq.); meet the California Environmental Quality Act definition of rare, threatened or endangered (14 CCR 15380(b),(d)); or are considered Fully Protected under California Fish and Game Code, Sections 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 2019b) that are Species of Special Concern.

Based on Dudek's literature review described in Section 4.1 and associated habitat suitability analysis, a total of 40 special-status wildlife species were identified as having potential to occur on the Paulsell Project Site. Appendix D lists the 40 special-status wildlife species, their regulatory status, and habitat requirements, and provides an assessment of their potential to occur. Of these species, 12 species were eliminated from consideration due to the absence of suitable habitats (e.g., chaparral, scrub, estuarine conditions, etc.), or because the Paulsell Project Site is outside of the known range of the species. The remaining 28 special-status wildlife species were considered to have low, moderate, or high potential to occur on or in close proximity to the Paulsell Project Site. None of these 28 special-status wildlife species were observed on the Paulsell Project Site during field surveys conducted for the Paulsell Project.

The following discussion describes the results of the focused, species-specific surveys and assessments, as well as those special-status species incidentally observed during the focused survey efforts.

5.2.3.1 California Tiger Salamander

The California tiger salamander is a large, stocky amphibian that spends much of its life underground. It occurs only in California's Central Valley grasslands and the oak savannah plant communities of California's Central Valley, the Sierra Nevada foothills, the Coast Ranges, and the San Francisco Bay region, below approximately 1,500 feet (Bolster 2010). The California tiger salamander's range is centered in the Central Valley and Coast Ranges from Tulare to San Luis Obispo Counties in the south, northward to Sacramento and Solano Counties, with separate populations in Santa Barbara and Sonoma Counties (Bolster 2010). Although the specie is known to occur in the Central Coast Ranges, CNDDB includes no occurrences for California tiger salamander within approximately 9 miles of the Paulsell Project Site. An examination of recent historical aerial imagery suggests that few potential breeding pools occur anywhere within 5 miles of the Paulsell Project Site. The nearest such pool is approximately 1.2 miles south of the Paulsell Project Site, near the limit of distance California tiger salamander is able to travel in search of upland refugia. Aerial images reveal no other pools within 1.5 miles that appear to have potential to support breeding by California tiger salamander.

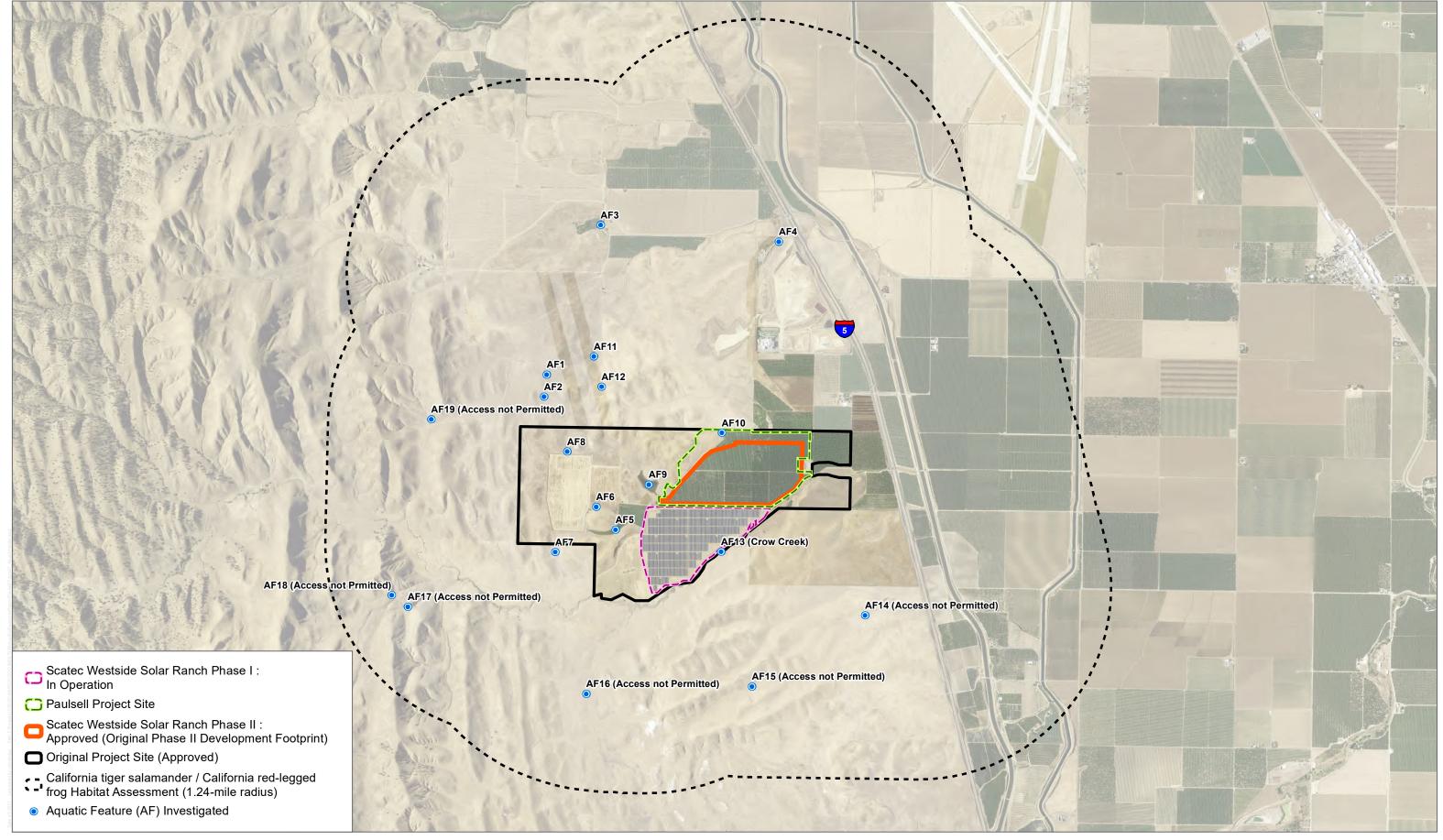
Dudek conducted a focused field assessment of suitable aquatic and upland habitats for the California tiger salamander within the Paulsell Project Site and surrounding area. Figure 7 shows the location of all of the aquatic habitats evaluated. As described in Section 5.1, the site is dominated by active agricultural lands. Regular anthropogenic maintenance and disturbance of the agricultural lands include practices such as soil disking and herbicide application. Crops present in 2020 included alfalfa, almonds, and oats. One natural vegetation community is present in the remaining areas on the Paulsell Project Site: California annual grassland.

Aquatic Habitat Descriptions

No aquatic features occur on the Paulsell Project Site; however, several aquatic features ("AF") occur within 2 kilometers outside of the Project boundary (Figure 7). The following aquatic habitats, located outside of the Paulsell Project Site, were evaluated and analyzed for their potential to support California tiger salamander and California red-legged frog, which is further analyzed in the following section.

Ephemeral Creek

Crow Creek (AF13) is a natural ephemeral drainage that runs along the southern boundary of the Paulsell Project Site and is a tributary to Orestimba Creek, which is a tributary of the San Joaquin River. In general, the reach of Crow Creek adjacent to the Paulsell Project Site is characterized by an earthen channel that ranges in width from 4.5 meters to 35 meters. At the time of the April 2020 site visit, the entire channel was dry and did not contain any standing surface water. The bed of the creek consisted entirely of dirt/mud, with some woody debris associated with patches of overhanging vegetation in areas where riparian vegetation was thicker, such as within the Fremont cottonwood forest and black willow thickets communities located in small sections throughout the channel. Overall, the channel was heavily vegetated with upland grasses such as bromes, musky stork's bill (*Erodium moschatum*), broadleaf filaree (*Erodium botrys*), rye grass (*Festuca perennis*), and wall barley (*Hordeum murinum*), and no instream aquatic vegetation was observed. The bed of the creek is heavily used by cattle; cattle trails were observed throughout the channel.



SOURCE: USDA 2016, Stanislaus County 2018

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The adjacent banks of Crow Creek were moderately steep, on average with a 40% to 60% slope on the southern side, and 60% to 80% slope on the northern side. The northern side is situated next to an access road that traverses the property. The banks are 90% vegetated with upland grasses and thistle species, such as *Silybum* spp.

A review of historic Google Earth imagery (Google Earth 2020) revealed that Crow Creek remains dry throughout most of the year, including the months following the rainy season (i.e., March and April), with the exception of March 2017, when Crow Creek appeared to have had flowing water.

Ephemeral Swale

One ephemeral swale (AF12) is a natural drainage located northwest of the Paulsell Project Site. The origin of the feature is unclear, but the feature runs from east to west just north of the Paulsell Project Site, and continues west into the adjacent California annual grassland. In general, the feature is characterized by an earthen swale that was approximately 205 meters in length, and ranged in width from 3 to 5 meters. At the time of the April 2020 site visit, the entire swale was dry and did not contain any standing surface water. The bed and banks of the swale consisted entirely of earthen dirt/mud and were 100% vegetated with upland grasses such as bur clover (*Medicago polymorpha*), bromes, musky stork's bill, peppergrass (*Lepidium nitidum*), wall barley, rye grass, broadleaf filaree, and shepherd's purse (*Capsella bursa-pastoris*). The adjacent banks ranged in grade from 20% to 60% and were heavily used by cattle.

A review of historic Google Earth imagery (Google Earth 2020) revealed that this swale remains dry throughout the year, including months following the rainy season (i.e., March and April), and even during notably wet years, such as March 2017.

Livestock Ponds

A total of five livestock ponds were evaluated in this analysis. Two of the ponds (AF5 and AF9) are located just west of the Paulsell Project Site, and the remaining ponds (AF3, AF14, and AF18) are located outside of the Paulsell Project Site, but within the 2-kilometer ("km") survey area.

AF5. AF5 is a perennial stock pond that is located just west of the Paulsell Project Site. AF5 is a large feature, approximately 400 meters long, ranging in width from 48 meters to 104 meters. Surface water depths within the pond ranged from 0.6 to 1.2 meters around the pond edges, to up to 2.4 meters in the center of the pond. The bed of the pond consisted primarily of mud and silt; the water was clear and not highly turbid, but a large amount of algae was present at the time of the site visit. Emergent vegetation within the pond was minimal, covering a maximum of 5% of the pond, consisting primarily of tule (*Schoenoplectus* spp.) around the pond edges. Submerged vegetation consisted of dock (*Rumex* spp.) and bromes, covering a maximum of 8% of the pond bottom. The adjacent pond banks were entirely earthen and moderately sloping from the northwest corner to the southeast corner, with the northern/western banks at a maximum height of 6 feet and a 60% grade, and the southern/eastern banks flattening out to a 20% grade. Shoreline vegetation consisted primarily of grassland species, with 0% canopy cover over the pond. AF5 potentially supports breeding of western toad (*Anaxyrus boreas*) and Pacific tree frog (*Pseudacris regilla*), as adults of both species were observed during the site assessment; however, the pond appeared to be stocked with an abundance of bass and potentially other centrarchid species. The pond is heavily used by livestock.

AF9. AF9 is a perennial stock pond that is located just west of the Paulsell Project Site and receives a consistent influx of water from a roadside irrigation canal that runs along the western edge of the orchard plot at this location. AF9 is a large

feature, approximately 236 meters wide, that ranged in length from 76 meters to 156 meters. Surface water depths within the pond ranged from 6 inches around the pond edges to up to 4 feet in the center of the pond. The bed of the pond consisted primarily of mud and silt, and the water was moderately turbid at the time of the site visit. Emergent vegetation within the pond had a 70% coverage, consisting of tule, broadleaf cattail (*Typha latifolia*), juncus (*Juncus* spp.), bromes, and horsetail (*Equisetum* spp.). Submerged vegetation consisted primarily of juncus, covering approximately 60% of the pond bottom. The adjacent pond banks were entirely earthen but minimally sloped, with a maximum of 5% grade. Shoreline vegetation consisted primarily of grassland species such as bromes, common dandelion (*Taraxacum officinale*), pineapple weed (*Matricaria discoidea*), cleavers (*Galium aparine*), and thistle, with 0% canopy cover over the pond. AF5 supports breeding of western toad—thousands of western toad tadpoles were observed during the site visit. Additionally, Pacific tree frogs were heard vocalizing within the pond. No fish species were observed. The pond is heavily used by livestock as well as wading birds such as sora (*Porzana Carolina*), mallard (*Anas platyrhynchos*), American coot (*Fulica americana*), American avocet (*Recurvirostra americana*), and black-necked stilt (*Himantopus mexicanus*). Invertebrates observed included the water boatman (*Corixidae* spp.).

Drainage Basin

One drainage basin (AF4) is located directly north of the Paulsell Project Site, along the eastern side of Fink Road north of the landfill entrance. In general, this feature appeared to have perennial qualities (i.e., receiving consistent drainage influx from upper landfill reservoir facilities), but may dry out in years when runoff is minimal. AF4 is moderately sized, approximately 27 meters wide and 152 meters long, and runs north to south along Fink Road. The feature is assumed to be human-made as the southern end of the basin converts into a drainage ditch that is lined with sandbags, and the eastern banks contain corrugated black plastic pipes to facilitate runoff from upper landfill facilities and are lined with straw waddles to prevent erosion. Surface water depths within the basin ranged from 15 centimeters around the basin edges to up to 1 meter in the center points of the basin. The bed of the basin consisted primarily of mud and silt, and the water was highly turbid at the time of the site visit. Emergent vegetation within the basin had a 30% coverage, consisting of primarily of tule and juncus. The adjacent pond banks were entirely earthen aside from the straw waddle lining, and moderately sloping uphill towards the landfill facilities, at an approximate 30% to 40% grade. Shoreline vegetation consisted primarily of grassland and ruderal species such as bromes, curly dock (*Rumex crispus*), Russian thistle (*Salsola* spp.), milk thistle (*Silybum marianum*), and field mustard (*Brassica rapa*), with 0% canopy cover over the basin. Mosquito fish (*Gambusia affinis*) were observed in the basin at the time of the site visit.

Seasonal Wetlands (Former Livestock Pond)

A total of 11 seasonal wetland features were evaluated in this analysis. Three of the features (AF6, AF8, and AF10) represent former livestock ponds and are located west of the Paulsell Project Site. One seasonal depression (AF11) was investigated, and the remaining features (AF1, AF2, AF7, AF15, AF16, AF17, and AF19) are located outside of the Project boundaries but within the 2-km survey area for California tiger salamander and California red-legged frog.

• Former Livestock Ponds. The features that were evaluated during the site visit (AF1, AF2, AF6, AF8, and AF10) all contained similar characteristics. In general, these features appear to be large seasonal wetlands that have historically functioned as human-made livestock ponds, but since the features have not been maintained as stock ponds, they have lost their ability to store water for extended periods. At the time of the April 2020 site visit, all of these features were completely dry and did not contain any standing surface water. The beds of these features consisted entirely of dirt/mud, and were all moderately vegetated with upland grass species such as bromes, musky stork's bill, broadleaf filaree, rye grass, wall barley, bur clover,

and more. Overall, the adjacent banks around these features were entirely earthen but minimally sloped, with a maximum of 5% grade. Shoreline vegetation surrounding all of these features consisted primarily of grassland species.

A review of historic Google Earth imagery (Google Earth 2020) revealed that all of these features remain dry throughout most of the year, including the months following rain season (i.e., March and April), with the exception of March 2017, which was a notably wet year in which a few features contained water.

- Seasonal Depression. One seasonal depression feature (AF11) is located northwest of the Paulsell Project Site. This feature is north of the ephemeral swale that was previously described (AF12). In general, the feature is characterized as a small earthen depression that was approximately 6 meters wide and 5 meters in length. At the time of the April 2020 site visit, the feature was completely dry and did not contain any standing surface water. The depression consisted of dirt/mud, and was 85% covered in upland vegetation such as rye grass, wall barley, bur clover, broadleaf filaree, and musky stork's bill. The adjacent banks of the pool are almost nonexistent with a maximum 5% grade. Shoreline vegetation consisted entirely of annual grassland species, with 0% canopy cover over the pool. The area is heavily used by cattle.
- Off-site Seasonal Features. The historic aerial imagery desktop review of the features where access was
 not permitted (AF15, AF16, AF17, and AF19) revealed that these features may be seasonal wetlands.
 These features are located a fair distance south and west of the Paulsell Project Site. During each month
 of the imagery review, these features did not contain vegetation or surface water and were heavily used
 by cattle.

Off-site Livestock Ponds

• AF3. AF3 is a stock pond that is located northwest of the Paulsell Project Site. Water levels in the pond are likely controlled by the landowner, as a water control structure was observed at the northern end of the pond, and the pond was entirely dry at the time of the April 2020 site visit. AF3 is a large feature, approximately 115 meters in length and 123 meters wide. The bed of the pond consisted primarily of cracked mud, and emergent vegetation covered approximately 60% of the pond bottom with willow (Salix spp.), tule, broadleaf cattail, tall flatsedge (Cyperus eragrostis), bristly oxtongue (Picris echioides), and dock. The adjacent eastern pond bank is very steep with an 80% grade, partially earthen, and rock armored in certain areas as the eastern bank supports a berm with an access road. The eastern bank is covered in annual grassland species and is dominated by thistle and curly dock. The northern, southern, and western banks are more gently sloped with a 20% grade and lined with thick patches of cattails and willows. Overall, the shoreline vegetation creates a 10% to 20% canopy cover for the entire pond. Pacific tree frogs were heard vocalizing at this location during the time of the April 2020 site visit, and previous reports at this location (Dudek 2017) indicate that this pond is heavily used by American bullfrogs (Lithobates catesbeianus).

The historic aerial imagery desktop review of the features where access was not permitted (AF14 and AF18) revealed that both features are large human-made livestock ponds and contain water year-round. AF14 is located southeast of the Paulsell Project Site and is approximately 40 meters long and 56 meters wide. The pond appears to contain a few large trees on the banks of the pond, and a moderate amount of emergent inpond vegetation; however, vegetation on the earthen banks is minimal. The pond appears to be fenced off from cattle. AF18 is located approximately 1,400 meters southwest of the Paulsell Project Site and is approximately 25 meters long and 27 meters wide. The pond does not appear to have any in-pond emergent vegetation, and the shoreline banks appear largely unvegetated. The pond appears to be heavily used by livestock. Presence of predatory species such as centrarchid fish or bullfrogs is unknown.

Upland Habitat Descriptions

In general, the majority of the aquatic habitats investigated in this study are surrounded by open land with California annual grassland vegetation species. Within the annual grassland adjacent to the Paulsell Project Site, small mammal burrows belonging to California ground squirrel (*Otospermophilus beecheyi*) are high in abundance, and in close proximity to many of the aquatic features. The annual grassland adjacent to the site also supports large mammal burrows that are used by coyote. Some features are in close proximity to agricultural fields that have been disked recently or are currently under crop production. In general, these fields lack presence of cover for California red-legged frog (shrub, riparian vegetation cover, logs, etc.) and California tiger salamander (burrows) due to their disturbed nature. Overall, riparian vegetation cover is minimal for California red-legged frog throughout the site, and is limited to small patches of Fremont cottonwood forest and black willow thickets within the Crow Creek channel that borders the southern section of the Paulsell Project Site. Almond orchards are located within the Paulsell Project Site and may provide some upland refugia for California tiger salamander within the root ball systems, which generally stay shaded with consistent moisture due to irrigation practices.

Likelihood for California Tiger Salamander to Occur

California tiger salamanders have a low likelihood to occur within the Paulsell Project Site or vicinity due to the great distance to the nearest known occurrence from the Paulsell Project Site, limited distribution in the vicinity of the Paulsell Project Site, and the preference for seasonal ponds for breeding over perennial features (especially perennial features with predatory species). Due to these factors, potential breeding habitat within the vicinity of the Paulsell Project Site is considered to be of low quality and unlikely to be occupied by either species. No potential breeding habitat for California tiger salamander occurs within the Paulsell Project Site or surrounding vicinity. California tiger salamander are able to breed in perennial ponds (Ford et al., 2013), and there are two stock ponds (AF5, AF9) and the human-made drainage basin (AF4) north of the Paulsell Project Sitethat have potentially suitable hydrology to support breeding. None of the other features evaluated including the seasonal wetlands, seasonal depression, ephemeral swale, or Crow Creek (ephemeral creek) provide suitable water inundation period for CTS California tiger salamander breeding.

Pond AF5 has limited aquatic and margin vegetation (<5% cover) and supports centrarchid fish, both factors that limit the suitability of this pond to provide suitable breeding habitat for California tiger salamander. Pond AF4 (drainage basin) appeared to be perennial and contained fish (mosquito fish), but may dry out in some years due to lack of runoff.

Three livestock ponds that may have suitable water inundation or provide perennial water presence were identified within 2 km of the Paulsell Project Site. Pond AF3 has been evaluated previously for other projects, and was found to support bullfrogs, decreasing the suitability of this habitat for California tiger salamander. In addition, this feature was dry during 2020 surveys, so the presence of water in this location may be unreliable and unsuitable for breeding habitat.

In general, aquatic habitats adjacent to the Paulsell Project Site are unlikely to support California tiger salamander, for reasons noted above. In addition, no known breeding ponds of the species occur within 10.0 miles. Therefore, California tiger salamander is considered highly unlikely to occur on the Paulsell Project Site.

5.2.3.2 California Red-Legged Frog

The California red-legged frog (Rana draytonii) is a federally listed as threatened species. They occur on the coastal slope of Southern California, in the Coast Ranges and immediate coast from central California north to Mendocino

County, and in the foothills of the Sierra Nevada and the Cascade Range bordering the Central Valley. California red-legged frogs can survive in a variety of habitat types, including various aquatic, riparian, and upland habitats. Preferred aquatic habitat is characterized by dense shrubby or emergent riparian vegetation, such as arroyo willow, cattail (*Typha* spp.), and bulrush (*Scirpus* spp.), associated with deep (greater than 2 feet), still or slow-moving water. California red-legged frogs will also utilize ephemeral ponds, intermittent streams, seasonal wetlands, springs, seeps, permanent ponds, perennial creeks, built aquatic features, marshes, dune ponds, lagoons, riparian corridors, blackberry thickets, non-native annual grasslands, and oak savannas. They have been known to breed successfully in artificial ponds with little or no emergent vegetation, although they generally use emergent aquatic vegetation for anchoring anchor egg mass (USFWS 2002). The nearest CNDDB occurrence of California red-legged frog to the Paulsell Project Site is from 1993, at a stock pond adjacent to the Delta-Mendota Canal, approximately 6.4 miles to the south–southeast.

As described in Section 5.2.2.2, there are no aquatic habitats within the Paulsell Project Site, but a number of aquatic habitats within 2 km of the Paulsell Project Site were evaluated and analyzed for their potential to support California red-legged frog. Additionally, upland habitats surrounding the aquatic habitats were analyzed for the potential to support California red-legged frog refugia.

Likelihood for California Red-Legged Frog to Occur

As previously described, the California red-legged frog (and California tiger salamander) habitat assessments identified livestock ponds that could provide potential breeding locations for both species within 2 km of the Paulsell Project Site. However, it is unlikely that California red-legged frog occur or breed within the Paulsell Project Site vicinity. This is due to the lack of margin vegetation and cover of aquatic sites, presence of aquatic predators (in some of these locations), large distance to any known occurrences, and the extremely limited distribution of California red-legged frog in the vicinity of the Paulsell Project Site and west side of the Central Valley in general. Due to these factors, potential breeding habitat within the Paulsell Project Site vicinity is considered to be of low quality and unlikely to be occupied by California red-legged frog. No potential breeding habitat for California red-legged frog occurs within the Paulsell Project Site or general vicinity. California red-legged frog are able to breed in perennial ponds (Ford et al., 2013), and there are two stock ponds (AF5, AF9) and the human-made drainage basin (AF4) directly north of the Paulsell Project Site that have potentially suitable hydrology to support breeding. As previously described, none of the other features evaluated including the seasonal wetlands, seasonal depression, ephemeral swale, or Crow Creek (ephemeral creek) provide suitable water inundation period for California red-legged frog breeding.

Pond AF5 has limited aquatic and margin vegetation (<5% cover) and supports centrarchid fish, both factors that limit the suitability of this pond to provide suitable breeding habitat for California red-legged frog. Pond AF9 had an abundance of both submerged and emergent vegetation within the pond, but little or no margin vegetation that could provide cover for California red-legged frog. No fish were observed in this pond during the 2020 survey. Pond AF4 (drainage basin) appeared to be perennial and contained fish (mosquito fish), but may dry out in some years due to lack of runoff. Emergent vegetation covered approximately one-third of the drainage basin, but the pond lacked any margin vegetation that could provide cover for California red-legged frog.

As previously described, three livestock ponds that may have suitable water inundation or provide perennial water presence were identified within 2 km of the Paulsell Project Site. Pond AF3 has been evaluated previously for other projects, and was found to support bullfrogs decreasing the suitability of this habitat for California red-legged frog. In addition, this feature was dry during 2020 surveys, so the presence of water in this location may be unreliable and unsuitable for breeding habitat. Ponds AF14 and AF18 appear to be large perennial stock ponds. AF14 appears

to have a moderate amount of emergent vegetation within minimal margin vegetation aside from a few mature trees, and AF18 does not appear to have either emergent or shoreline vegetation.

In general, aquatic habitats adjacent to the Paulsell Project Site are unlikely to support California red-legged frog, for reasons noted above. In addition, the isolation of all aquatic locations from known or potential breeding sites also limits the potential California red-legged frog to occupy and persist on the Paulsell Project Site. California red-legged frogs have been known to travel more than 2 miles from breeding pools during dispersal, but they typically do not travel farther than approximately 1 mile. Given that the habitat in proximity to the site is marginal (due to the lack of perennial features, potential aquatic predators, and lack of margin vegetation), the isolation of the potential breeding sites in the vicinity suggests the area is likely not capable of supporting a breeding population of California red-legged frogs. The lack of known breeding locations within 6 miles of the site further supports this conclusion. Therefore, California red-legged frog is considered highly unlikely to occur on the Paulsell Project Site.

5.2.3.3 Burrowing Owl

Burrowing owl is a California Species of Special Concern. 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 typified by short, sparse vegetation with few shrubs, level to gentle topography, and well-drained soils (Poulin et al. 2011).

The presence of burrows is the most essential component of burrowing owl habitat as they are required for nesting, roosting, cover, and caching prey (Coulombe 1971; Martin 1973; Green and Anthony 1989; Poulin et al. 2011). In California, western burrowing owls most commonly live in burrows created by California ground squirrels. 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 are available; and foraging habitat occurs in close proximity (Gervais et al. 2008). Debris piles, riprap, culverts, and pipes can be used for nesting, secondary shelter sites, and roosting.

No potentially suitable burrowing owl burrows (burrows approximately 3 inches in size or greater) or burrow complexes were observed during focused surveys within the Paulsell Project Site conducted from March to June 2020. No burrowing owls or burrowing owl sign (whitewash, pellets, feathers, or prey remains) were detected during the focused field surveys. However, areas surrounding the Paulsell Project Site support suitable habitat for this species.

5.2.3.4 San Joaquin Kit Fox

The San Joaquin kit fox is in the family Canidae and is a year-round resident of arid and semi-arid regions of the San Joaquin Valley and surrounding valleys, Sierra Nevada foothills, and Coast Ranges from northern Santa Barbara and Ventura Counties north to Contra Costa and San Joaquin Counties (USFWS 1998). This species lives in annual grasslands or grassy open habitats with scattered shrubby vegetation. It requires loose-textured sandy soils for burrowing and a suitable prey base of rodents. 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, fescue (Festuca spp.), wild oats, barley (Hordeum spp.), and filaree (Erodium spp.).

Focused surveys for San Joaquin kit fox dens were conducted concurrently with burrowing owl surveys described above between March and June 2020. During the surveys, no burrows or burrow complexes meeting the minimum

size criteria were identified, and no San Joaquin kit fox natal dens, active dens, or burrows showing sign (i.e., scat, prey remains, digging) were identified within the Paulsell Project Site. However, the grassland-dominated areas of the adjacent lands provide suitable foraging habitat for this species.

In addition to the burrow surveys, a total of 7.78 kilometers of survey transects on the Original Project Site were searched using three scat detection dog-biologist/handler teams. No San Joaquin kit fox scats or other sign of kit fox presence were found during the surveys. Scat detection dogs are capable of locating scats that range from fresh to several weeks to months old. Immediately prior to conducting the surveys on the Original Project Site, the scat detection dogs located nearly 400 San Joaquin kit fox scats (3.40 scats/kilometer) in a smaller satellite population in San Luis Obispo County. The surveys resulted in no kit fox scats of any age found on the Original Project Site, not even on typical fox movement paths or at typical marking places such as fence posts, carcasses of other animals, cement objects, trash, or animal trail intersections, etc. If scats were available for detection on the Original Project Site, it is highly likely that they would have been detected within the distance of each transect route and based on the extensive transect system established.

The findings from the burrow assessment surveys and scat detection dog surveys are consistent with the absence of positive sightings or other confirmed data in recent years. In summary, the results of the burrow assessment surveys and scat detection surveys suggest a low probability of resident San Joaquin kit fox occurring on the Paulsell Project Site. Additional detailed information regarding the methods and results of the scat dog surveys is contained in the Paulsell Solar Energy Center Detection Dog Deployment report (Working Dogs for Conservation 2021), which is provided in Appendix E.

5.2.3.5 American Badger

The American badger is a small fossorial, carnivorous mammal in the Mustelidae family. This species is an uncommon, permanent resident found throughout most of California. American badgers are generally associated with dry, open, treeless regions, prairies and grasslands, low-intensity agriculture (e.g., pasture and dryland crops), drier open shrublands and forest, parklands, and cold desert areas (Long 1973; Zeiner et al. 1990). American badger was previously detected north of the Paulsell Project Site in 1989 (CDFW 2020).

American badger surveys were conducted under favorable weather conditions between March and June 2020, and concurrent with the San Joaquin kit fox and burrowing owl survey efforts described above. During the surveys, no burrows of suitable size, or burrows containing typical sign (i.e., those with obvious claw marks on the inside edges, wide apron, and scat or tracks) were detected. Overall, the adjacent grassland areas of the Paulsell Project Site support suitable foraging habitat for this species.

5.2.3.6 Swainson's Hawk

Swainson's hawk is state listed as threatened species under the CESA. It nests in California in the Central Valley and smaller adjacent valleys, the Klamath Basin, the Northeastern Plateau, Lassen County, and the Mojave Desert. It breeds in riparian areas, stands of trees in agricultural environments, oak savannah, Joshua trees (*Yucca brevifolia*) in the Mojave Desert, and juniper-sage flats. In the San Joaquin Valley, it 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 undisturbed grasslands, fallow agricultural fields, and some row crops.

Dudek conducted focused surveys for Swainson's hawk on the Paulsell Project Site and surrounding vicinity in 2020. During the surveys, suitable nesting habitat on the Paulsell Project Site was initially identified as occurring along Crow Creek at the southern Paulsell Project Site boundary, and in several isolated trees and small tree clusters at several locations around the site (Figure 8). Additional locations of suitable nesting habitat were observed off site and within 1 mile of the site, including riparian habitat associated with the farm pond to the north of the Paulsell Project Site within the Proxima Solar Energy Center Project Site, various trees surrounding the Fink Road Landfill, a farm complex to the northeast of the site, and various isolated trees.

No active Swainson's hawk nests were observed on the Paulsell Project Site during the focused surveys; however, a number of individual foraging Swainson's hawks were observed within the 1-mile and 5-mile survey buffers (Figure 8).

On April 10, 2020, two adult Swainson's hawks were first observed copulating near a suitable nest structure north of the Paulsell Project Site, in willows east of the constructed farm pond (Figure 8; nest SWHA01). On May 7, 2020, during burrowing owl surveys, an adult was observed incubating in the nest, with the other adult hunting nearby. On June 11, 2020, one adult was observed standing on the edge of the nest; however, no chicks were observed. On June 21, 22, 29, and 30, 2020, no activity was observed at this nest location, and the nest was subsequently determined to have failed.

On April 10 and 14, 2020, two adult Swainson's hawks were observed hunting and perching near a suitable nest structure north of the Paulsell Project Site, in a large tree to the west of the constructed farm pond (Figure 8; nest SWHA02). On June 11, 2020, one adult was observed standing on the edge of the nest peering into the nest as if chicks were present. On June 21, 22, 29, and 30, 2020, at least two chicks were observed standing in the nest with the adults hunting nearby. This nest was subsequently determined to have succeeded.

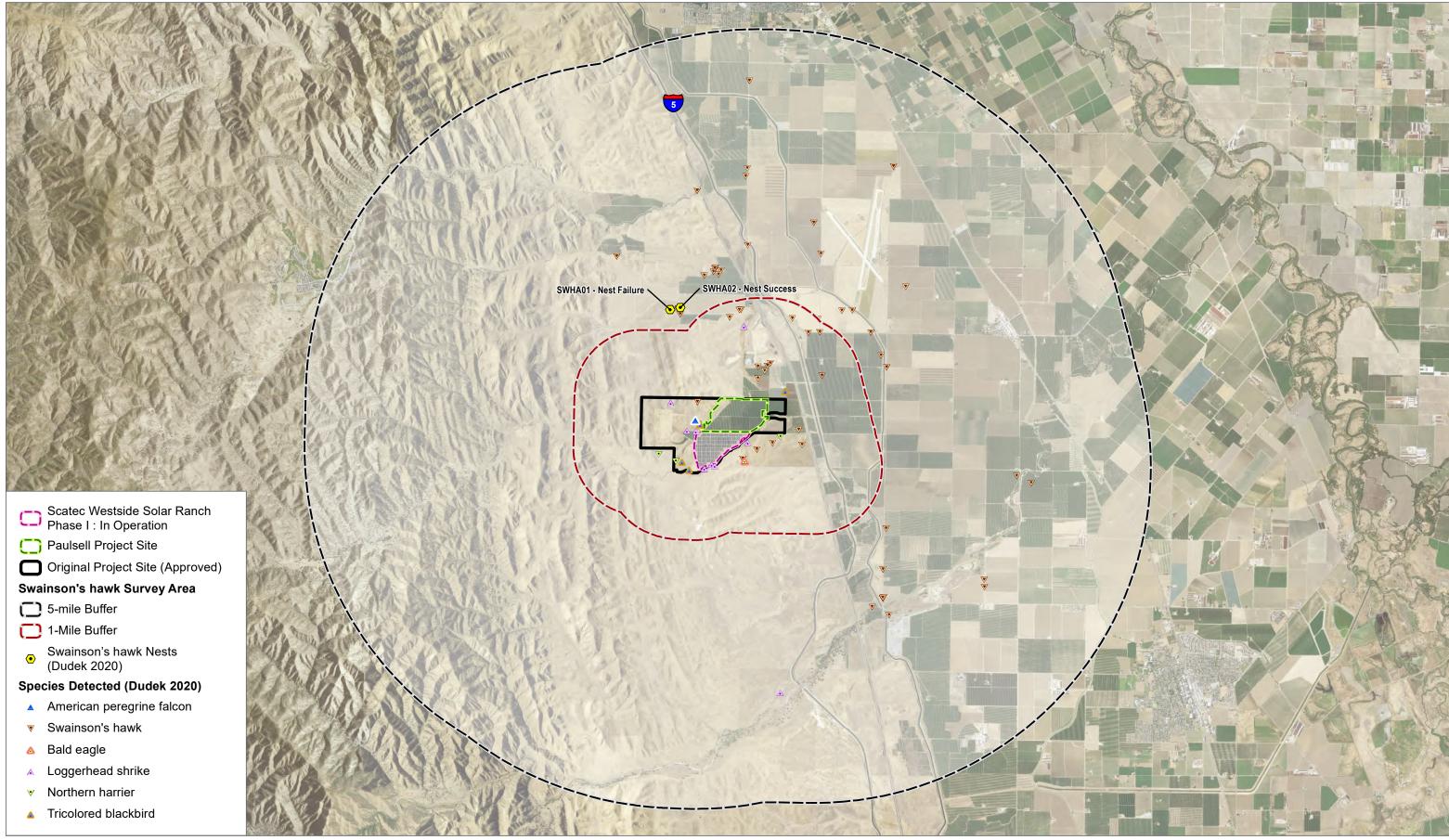
No additional Swainson's hawk nesting activity was observed within the 1-mile or 5-mile survey buffers of the Paulsell Project Site.

5.2.3.7 Other Special-Status Wildlife Species

Dudek biologists detected five special-status wildlife species incidentally during focused surveys for the wildlife species described above. All special-status species detected incidentally during other focused survey efforts were bird species, including two Fully Protected species, two California Species of Special Concern, and one California Species of Special Concern that is also listed as threatened under CESA. Observations are listed by species below.

American Peregrine Falcon

American peregrine falcon (*Falco peregrinus anatum*) is a California Fully Protected species for nesting occurrences only and was formerly listed under CESA and ESA. Two peregrine falcons, presumably this subspecies, which is the expected taxon at all seasons, were observed incidentally on April 15, 2020 hunting over Pond-1 located west of the Paulsell Project Site (Figure 8). The observation was brief, and these individuals may have been stopping to forage from nesting or roosting habitat elsewhere. No nesting habitat for this species is present on the Paulsell Project Site, and the lack of other observations of the highly visible species indicates this species does not typically forage on the site.



SOURCE: USDA 2016, Stanislaus County 2018

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Bald Eagle

USFWS delisted the bald eagle from FESA in 2007, but the species remains a California endangered and Fully Protected species. In California, most nesting bald eagles are found in the northern part of the state, but pairs nest locally south through the Sierra Nevada, coastal counties in Central and Southern California, and on the Channel Islands. Bald eagles typically nest in large conifers or on rock outcrops near aquatic features, but also occasionally in large hardwoods, such as sycamores and oaks (Anthony et al. 1982; USFWS 1986). They usually nest in one of the largest trees available near water and generally situated with a prominent overview of the surrounding area (Buehler 2000). Bald eagles preferentially forage on fish and waterfowl, but their diet varies regionally and seasonally in response to locally available resources, and often includes a variety of mammals as well as carrion, especially in winter (Todd et al. 1982; Stalmaster 1987; Ewins and Andress 1995; Buehler 2000). An individual bald eagle was observed flying south of the Paulsell Project Site on April 15, 2020 (Figure 8). No nesting habitat for this species is present on the Paulsell Project Site.

Loggerhead Shrike

Loggerhead shrike (*Lanius Iudovicianus*) is California Species of Special Concern for nesting occurrences only. From late winter until early summer, this species breeds in open habitats with scattered shrubs, trees, or other perches. At other times of the year, it is found in a greater variety of open habitat for foraging. This species was observed in scattered locations south of the Paulsell Project Site during the spring and summer in 2020 (Figure 8).

Northern Harrier

Northern harrier (*Circus hudsonius*) is a California Species of Special Concern for nesting occurrences only. Northern harriers nest on the ground in wet meadows, marshes, grasslands, some agricultural fields, and other areas of dense herbaceous vegetation where at least moderately tall and dense vegetation provides sufficient cover to conceal their nest. It forages and winters more widely in open, relatively treeless habitats. This species was observed widely during surveys in the spring and summer 2020, hunting in areas south of the Paulsell Project Site; however, no nests of this species was observed within the Paulsell Project Site (Figure 8).

Tricolored Blackbird

Tricolored blackbird (*Agelaius tricolor*) is threatened under CESA and is a California Species of Special Concern that is protected for its nesting colonies. It typically nests in freshwater marshes with dense growths of emergent vegetation dominated by tule (*Schoenoplectus* spp.), but has also established colonies in willows, blackberries (*Rubus* spp.), and a variety of other types of dense, herbaceous vegetation, such as thistles (*Cirsium* and *Centaurea* spp.) and nettles (*Urtica* sp.). Tricolored blackbirds forage in a variety of habitats, such as grasslands and croplands, where high densities of suitable insect prey are found. However, incompatible land cover types such as orchards, vineyards, and urban development continue to expand in previously suitable foraging habitat. Due to the continued expansion of nut trees and vineyards that replace suitable foraging habitat (e.g., grasslands, shrublands, and alfalfa fields), regions that were previously occupied by thousands of tricolored blackbirds have become permanently unsuitable (Meese 2016).

The Paulsell Project Site does not support suitable breeding or nesting habitat for the species. However, it provides marginally suitable foraging habitat in the annual grassland vegetation community. One area of suitable nesting habitat was observed immediately west of the Paulsell Project Site during biological surveys. A large tricolored blackbird nesting colony (several hundred birds) was observed foraging and nesting at a stock pond (Pond-1) during

surveys in 2019 and 2020. Birds were observed at this location, which supported a California bulrush vegetation community, carrying nesting materials and displaying nesting behaviors. In addition to this colony, several hundred tricolored blackbirds were observed foraging in the oat field southwest of the Scatec Westside Solar Ranch Phase I Project Site. Areas adjacent to the Paulsell Project Site provide suitable breeding, nesting, and foraging habitat for this species.

5.2.4 Potentially Jurisdictional Aquatic Resources

5.2.4.1 Waters of the United States

Dudek identified one irrigation canal (Canal-1) along the western perimeter of the Paulsell Project Site. This concrete-lined feature appears to support irrigated surface water perennially as a result of adjacent agricultural operations. This feature is hydrologically connected to an off-site stock pond (AF9, or Pond-1) and emergent freshwater marsh (FEW-1) via culverts. No upstream or downstream connectivity to other receiving waters was identified. Due to its isolated nature and lack of an ordinary high water mark, this feature would not be subject to federal jurisdiction under the Clean Water Act. Table 4 summarizes the result of the jurisdictional aquatic resources delineation for federal waters. A complete accounting of the federal aquatic resources investigated are provided in the project's Federal Aquatic Resources Delineation Report (Dudek 2021a). Findings of Dudek's jurisdictional delineation are preliminary until verified by the Sacramento District of the USACE.

Cowardin Federal Jurisdictional **Total Area Total Length** ID₁ Classification 2 Name (Acreage) (Linear Feet) **Status** Potential Wetlands PUB2 Unnamed feature Non-jurisdictional SW-2 Unnamed feature PUB2 Non-jurisdictional SW-4 Potential Waters of the United States Unnamed feature R5 1,924 Non-jurisdictional Canal-1 Unnamed feature R6 83 Non-jurisdictional ED-16 Unnamed feature R6 256 Non-jurisdictional ED-18 Unnamed feature R6 131 Non-jurisdictional ED-19

Table 4. Potential Federal Jurisdictional Aquatic Resources

Notes:

5.2.4.2 Waters of the State

Dudek identified one irrigation canal (Canal-1) as a potential jurisdictional water of the state within the Paulsell Project Site. As described above, this concrete-lined feature supports perennial surface water for the adjacent agricultural operations and appears hydrologically connected to an off-site stock pond and perimeter freshwater marsh. This feature is approximately 4 to 6 feet in width. Canal-1 is likely subject to CDFW and/or RWQCB jurisdiction based on evidence of bed and bank, or surface water flow. No additional aquatic features were identified on the Paulsell Project Site. Table 5, below, includes a summary of the state jurisdictional delineation results, and Figure 9 shows the location and extent of waters of the state on the Paulsell Project Site. A complete accounting of

¹ ID: ED = ephemeral drainage; SW = seasonal wetland

² Cowardin Classification Code (USFWS 1992): PUB2 = palustrine, unconsolidated bottom, ephemeral; R5 = riverine, perennial; R6 = riverine, ephemeral

the state aquatic resources investigated are provided in the project's State Aquatic Resources Delineation Report (Dudek 2021b).

Table 5. Potential State Jurisdictional Aquatic Resources

ID	Name	Cowardin Classification ¹	Total Area (Acreage)	Total Length (Linear Feet)	State Jurisdictional Status			
Potential Wetlands								
SW-2	Unnamed feature	PUB2	0.01	-	Jurisdictional			
SW-4	Unnamed feature	PUB2	0.03	-	Jurisdictional			
Potential Waters of the State								
Canal-1	Unnamed feature	R5	0.34	1,454	Jurisdictional			
ED-16	Unnamed feature	R6	0.07	83	Jurisdictional			
ED-18	Unnamed feature	R6	0.04	256	Jurisdictional			
ED-19	Unnamed feature	R6	0.02	131	Jurisdictional			

Notes

¹ ID: ED = ephemeral drainage; SW = seasonal wetland

² Cowardin Classification Code (USFWS 1992): PUB2 = palustrine, unconsolidated bottom, ephemeral; R5 = riverine, perennial; R6 = riverine, ephemeral

Scatec Westside Solar Ranch

Paulsell Project Site

Scatec Westside Solar Ranch Phase II :
Approved (Original Phase II Development Footprint)

Potentially Jurisdictional Aquatic Resources

Waters

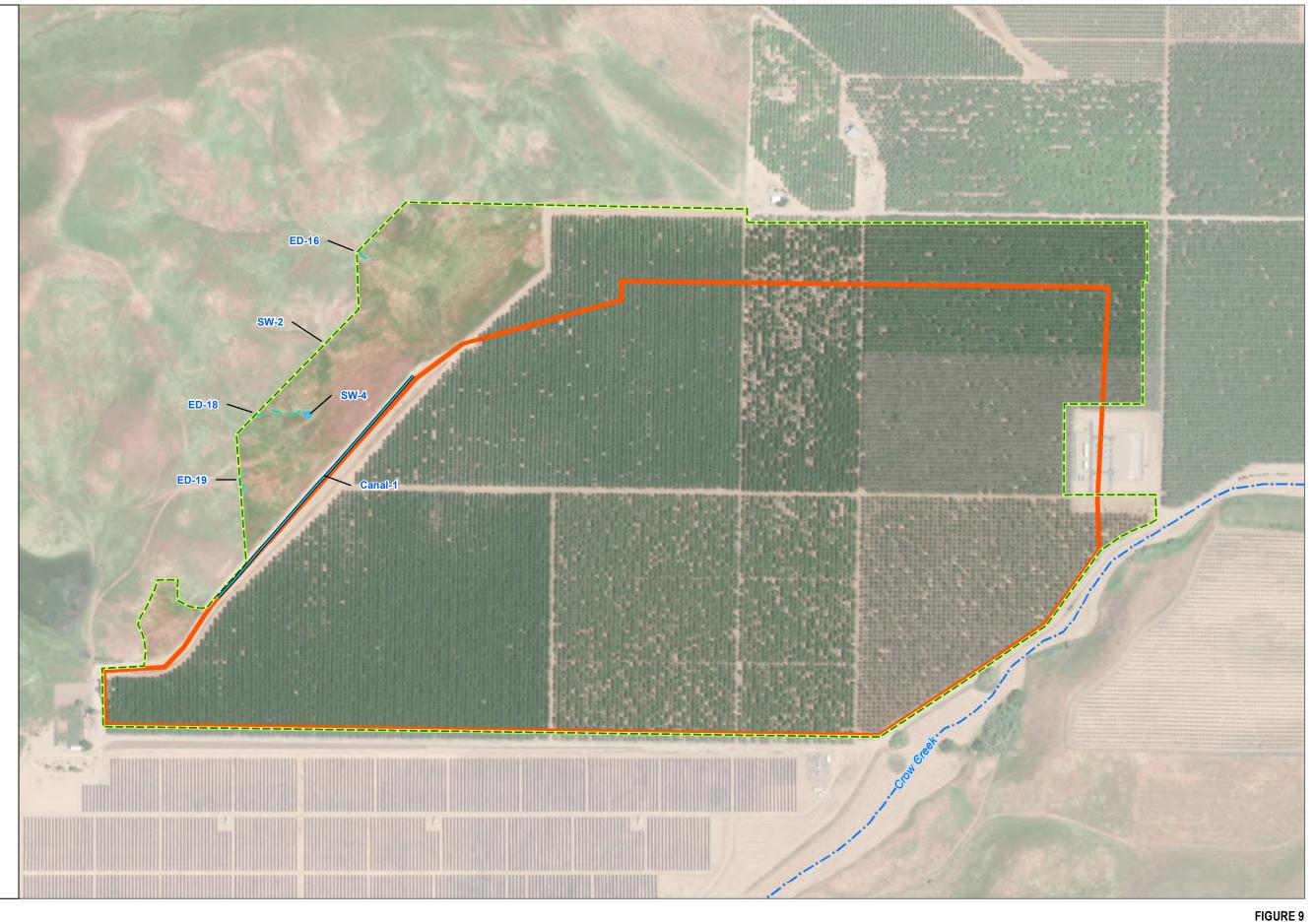
Irrigation Canal

· ` . Ephemeral Drainage

· Crow Creek

Wetlands

Seasonal Wetland



SOURCE: Esri Clarity Imagery 2020, Stanislaus County 2018



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Appendix A

Cumulative List of Plant Species Observed

Vascular Species

Eudicots

APIACEAE—CARROT FAMILY

- * Anthriscus caucalis—bur chervil
- * Conium maculatum—poison hemlock

Eryngium spinosepalum—spiny-sepaled button-celery

Lomatium utriculatum—common lomatium

Sanicula bipinnata—poison sanicle

APOCYNACEAE—DOGBANE FAMILY

Asclepias fascicularis—Mexican whorled milkweed

ASTERACEAE—SUNFLOWER FAMILY

Achillea millefolium—common yarrow

Agoseris heterophylla—annual agoseris

Achyrachaena mollis-blow wives

Baccharis salicifolia-mulefat

- * Carduus acanthoides—spiny plumeless thistle
- * Carduus pycnocephalus—Italian plumeless thistle
- * Centaurea calcitrapa—red star-thistle
- Centaurea melitensis—Maltese star-thistle
- Centaurea solstitialis—yellow star-thistle
 Cirsium occidentale—cobwebby thistle
- * Cirsium vulgare—bull thistle
 - Eclipta prostrata—false daisy
- * Erigeron bonariensis—asthmaweed

Grindelia camporum-Great Valley gumweed

Grindelia hirsutula-hairy gumweed

Helianthus annuus—common sunflower

* Helminthotheca echioides—bristly oxtongue

Hesperevax caulescens-hogwallow starfish

Holocarpha heermannii-Heermann's tarweed

- Hypochaeris glabra—smooth cat's ear
- * Lactuca serriola—prickly lettuce

Lasthenia californica ssp. californica—California goldfields

Logfia filaginoides—California cottonrose

* Logfia gallica-narrowleaf cottonrose

Madia gracilis—grassy tarweed



Matricaria discoidea-disc mayweed

Micropus californicus var. californicus—q-tips

Microseris douglasii ssp. douglasii-Douglas' silverpuffs

- * Senecio vulgaris—old-man-in-the-Spring
- * Silybum marianum—blessed milkthistle
- Sonchus asper—spiny sowthistle
- * Sonchus oleraceus—common sowthistle

Xanthium spinosum—spiny cocklebur

Xanthium strumarium—cocklebur

ARECACEAE—PALM FAMILY

* Unknown palm

AZOLLACEAE—AZOLLA FAMILY

Azolla sp.

BORAGINACEAE—BORAGE FAMILY

Amsinckia eastwoodiae—Eastwood's fiddleneck

Amsinckia intermedia—common fiddleneck

Amsinckia menziesii—Menzies' fiddleneck

Plagiobothrys bracteatus—bracted popcornflower

Plagiobothrys nothofulvus—popcorn flower

Plagiobothrys stipitatus—stalked popcornflower

BRASSICACEAE—MUSTARD FAMILY

- * Brassica nigra—black mustard
- * Capsella bursa-pastoris—shepherd's purse

Caulanthus sp.

Lepidium latipes-San Diego pepperweed

Lepidium nitidum—shining pepperweed

- * Raphanus sativus—cultivated radish
- * Sinapis arvensis—charlock mustard
- * Sisymbrium altissimum—tall tumblemustard
- * Sisymbrium irio—London rocket

Tropidocarpum gracile—dobie pod

CARYOPHYLLACEAE—PINK FAMILY

Cerastium arvense-field chickweed

Spergula arvensis—corn spurry



CHENOPODIACEAE—GOOSEFOOT FAMILY

Chenopodium californicum—California goosefoot

- * Chenopodium murale—nettleleaf goosefoot
- * Salsola tragus—prickly Russian thistle

CONVOLVULACEAE—MORNING-GLORY FAMILY

* Convolvulus arvensis—field bindweed

CRASSULACEAE—STONECROP FAMILY

Crassula connata—sand pygmyweed

CUCURBITACEAE—GOURD FAMILY

Marah fabacea—California man-root

EUPHORBIACEAE—SPURGE FAMILY

Croton setiger-dove weed

* Euphorbia peplus—petty spurge

FABACEAE—LEGUME FAMILY

Acmispon americanus var. americanus—American bird's-foot trefoil

Acmispon sp.

Astragalus oxyphysus-Mt. Diablo milkvetch

Lupinus bicolor-miniature lupine

Lupinus microcarpus var. microcarpus-valley lupine

Lupinus succulentus-hollowleaf annual lupine

- * Medicago polymorpha—burclover
- * Melilotus indicus—annual yellow sweetclover

Trifolium depauperatum—cowbag clover

Trifolium gracilentum-pinpoint clover

* Trifolium hirtum—rose clover

Trifolium willdenovii-tomcat clover

GERANIACEAE—GERANIUM FAMILY

- * Erodium botrys—longbeak stork's bill
- * Erodium brachycarpum—shortfruit stork's bill
- Erodium cicutarium—redstem stork's bill
- Erodium moschatum—musky stork's bill
- Geranium dissectum—cutleaf geranium

LAMIACEAE—MINT FAMILY

Lycopus americanus—American water horehound

* Marrubium vulgare—horehound



LYTHRACEAE—LOOSESTRIFE FAMILY

* Lythrum hyssopifolia—hyssop loosestrife

MALVACEAE—MALLOW FAMILY

- * Malva nicaeensis-bull mallow
- * Malva parviflora—cheeseweed mallow
 Malvella leprosa—alkali mallow

MONTIACEAE—MONTIA FAMILY

Calandrinia menziesii—red maids
Claytonia parviflora—streambank springbeauty

MYRSINACEAE—MYRSINE FAMILY

* Lysimachia arvensis—scarlet pimpernel

OLEACEAE—OLIVE FAMILY

* Olea europaea—olive

ONAGRACEAE—EVENING PRIMROSE FAMILY

Epilobium ciliatum ssp. ciliatum-fringed willowherb

PAPAVERACEAE—POPPY FAMILY

Eschscholzia californica—California poppy

PLANTAGINACEAE—PLANTAIN FAMILY

Plantago erecta—dwarf plantain

POLEMONIACEAE—PHLOX FAMILY

Leptosiphon bicolor-true babystars

POLYGONACEAE—BUCKWHEAT FAMILY

- Polygonum aviculare—prostrate knotweed
- * Rumex conglomeratus—clustered dock
- * Rumex crispus—curly dock
- * Rumex dentatus—toothed dock
- * Rumex pulcher—fiddle dock

RANUNCULACEAE—BUTTERCUP FAMILY

Delphinium sp.

Ranunculus sceleratus var. sceleratus—cursed buttercup

ROSACEAE—ROSE FAMILY

Prunus dulcis—sweet almond



RUBIACEAE—MADDER FAMILY

Galium aparine—stickywilly

SALICACEAE—WILLOW FAMILY

Populus fremontii—Fremont cottonwood Salix gooddingii—Goodding's willow Salix laevigata—red willow

SOLANACEAE—NIGHTSHADE FAMILY

Datura wrightii-sacred thorn-apple

Nicotiana glauca—tree tobacco
 Solanum americanum—American black nightshade

URTICACEAE—NETTLE FAMILY

* Urtica urens-dwarf nettle

Monocots

AGAVACEAE—AGAVE FAMILY

Chlorogalum pomeridianum—wavyleaf soap plant

ALISMATACEAE—WATER-PLANTAIN FAMILY

Sagittaria montevidensis ssp. calycina—hooded arrowhead

ARACEAE—ARUM FAMILY

Lemna minor-common duckweed

CYPERACEAE—SEDGE FAMILY

Eleocharis acicularis—needle spike rush Eleocharis macrostachya—pale spike rush Schoenoplectus acutus var. occidentalis—tule

JUNCACEAE—RUSH FAMILY

Juncus balticus-no common name

POACEAE—GRASS FAMILY

- * Avena barbata—slender oat
- * Avena fatua—wild oat
- * Bromus diandrus—ripgut brome
- * Bromus hordeaceus—soft brome
- * Bromus madritensis ssp. rubens—red brome
- Crypsis schoenoides—swamp pricklegrass



- * Cynodon dactylon—Bermudagrass
- * Festuca myuros—rat-tail fescue
- * Festuca perennis—perennial rye grass
- * Hordeum marinum ssp. gussoneanum—Mediterranean barley
- * Hordeum murinum—mouse barley
- * Hordeum vulgare—common barley
 Melica californica—California melicgrass
- * Paspalum dilatatum—dallisgrass
- Phalaris paradoxa—hood canarygrass
- * Poa annua—annual bluegrass
- * Poa bulbosa—bulbous bluegrass
 - Poa secunda—onesided bluegrass
- * Polypogon monspeliensis—annual rabbitsfoot grass
 - Stipa cernua-nodding needlegrass
 - Stipa pulchra—purple needlegrass
- * Triticum aestivum—common wheat

THEMIDACEAE—BRODIAEA FAMILY

Dipterostemon capitatus—bluedicks
Triteleia laxa—lthuriel's spear

TYPHACEAE—CATTAIL FAMILY

Typha latifolia—broadleaf cattail

* signifies introduced (non-native) species



Appendix B

Cumulative List of Wildlife Species Observed

Wildlife Species List Amphibians

Frogs

RANIDAE—TONGUELESS FROGS

* Lithobates catesbeianus—American bullfrog

Toads

BUFONIDAE—TRUE TOADS

Anaxyrus boreas-western toad

Birds

Blackbirds, Orioles and Allies

ICTERIDAE—BLACKBIRDS

Agelaius phoeniceus—red-winged blackbird Agelaius tricolor—tricolored blackbird Euphagus cyanocephalus—Brewer's blackbird Icterus bullockii—Bullock's oriole

Quiscalus mexicanus—great-tailed grackle

Sturnella neglecta—western meadowlark

* Molothrus ater—brown-headed cowbird

Cormorants

PHALACROCORACIDAE—CORMORANTS

Phalacrocorax auritus—double-crested cormorant

Falcons

FALCONIDAE—CARACARAS AND FALCONS

Falco peregrinus anatum—American peregrine falcon Falco sparverius—American kestrel

Finches

FRINGILLIDAE-FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus—house finch Spinus psaltria—lesser goldfinch



Flycatchers

TYRANNIDAE-TYRANT FLYCATCHERS

Myiarchus cinerascens—ash-throated flycatcher Sayornis nigricans—black phoebe Sayornis saya—Say's phoebe Tyrannus verticalis—western kingbird

Grebes

PODICIPEDIDAE—GREBES

Podilymbus podiceps—pied-billed grebe

Hawks

ACCIPITRIDAE-HAWKS, KITES, EAGLES, AND ALLIES

Buteo jamaicensis—red-tailed hawk Buteo swainsoni—Swainson's hawk Haliaeetus leucocephalus—bald eagle Circus hudsonius—northern harrier

Herons and Bitterns

ARDEIDAE-HERONS, BITTERNS, AND ALLIES

Ardea alba—great egret
Ardea herodias—great blue heron
Bubulcus ibis—cattle egret
Butorides virescens—green heron
Egretta thula—snowy egret

Hummingbirds

TROCHILIDAE—HUMMINGBIRDS

Calypte anna—Anna's hummingbird
Selasphorus sp.—Allen's/rufous hummingbird

Jays, Magpies and Crows

CORVIDAE—CROWS AND JAYS

Aphelocoma californica—California scrub-jay Corvus brachyrhynchos—American crow Corvus corax—common raven Pica nuttalli—yellow-billed magpie



Mockingbirds and Thrashers

MIMIDAE-MOCKINGBIRDS AND THRASHERS

Mimus polyglottos-northern mockingbird

New World Quail

ODONTOPHORIDAE—NEW WORLD QUAIL

Callipepla californica—California quail

New World Vultures

CATHARTIDAE—NEW WORLD VULTURES

Cathartes aura-turkey vulture

Old World Sparrows

PASSERIDAE—OLD WORLD SPARROWS

Passer domesticus—house sparrow

Owls

STRIGIDAE-TYPICAL OWLS

Athene cunicularia—burrowing owl Bubo virginianus—great horned owl

Pigeons and Doves

COLUMBIDAE—PIGEONS AND DOVES

Zenaida macroura-mourning dove

- * Columba livia—rock pigeon (rock dove)
- * Streptopelia decaocto—Eurasian collared-dove

Rails, Gallinules and Coots

RALLIDAE-RAILS, GALLINULES, AND COOTS

Fulica americana—American coot

Gallinula galeata—common gallinule

Porzana carolina—sora



Shorehirds

RECURVIROSTRIDAE—STILTS AND AVOCETS

Himantopus mexicanus-black-necked stilt

CHARADRIIDAE—LAPWINGS AND PLOVERS

Charadrius vociferus-killdeer

SCOLOPACIDAE—SANDPIPERS, PHALAROPES, AND ALLIES

Tringa flavipes—lesser yellowlegs
Tringa melanoleuca—greater yellowlegs

Shrikes

LANIIDAE—SHRIKES

Lanius Iudovicianus-loggerhead shrike

Starlings and Allies

STURNIDAE—STARLINGS

Sturnus vulgaris—European starling

Swallows

HIRUNDINIDAE—SWALLOWS

Hirundo rustica—barn swallow Petrochelidon pyrrhonota—cliff swallow Tachycineta bicolor—tree swallow

Thrushes

TURDIDAE-THRUSHES

Turdus migratorius—American robin

Wagtails and Pipits

MOTACILLIDAE-WAGTAILS AND PIPITS

Anthus rubescens-American pipit

Waterfowl

ANATIDAE-DUCKS, GEESE, AND SWANS

Anas platyrhynchos—mallard
Branta canadensis—Canada goose



Bucephala albeola—bufflehead Cygnus buccinator—trumpeter swan

Wood Warblers and Allies

PARULIDAE-WOOD-WARBLERS

Cardellina pusilla—Wilson's warbler Geothlypis trichas—common yellowthroat Setophaga coronata—yellow-rumped warbler

Woodpeckers

PICIDAE—WOODPECKERS AND ALLIES

Colaptes auratus—northern flicker

Dryobates nuttallii—Nuttall's woodpecker

New World Sparrows

PASSERELLIDAE—NEW WORLD SPARROWS

Chondestes grammacus—lark sparrow
Passerculus sandwichensis—savannah sparrow
Zonotrichia atricapilla—golden-crowned sparrow
Zonotrichia leucophrys—white-crowned sparrow

Fishes

Other Bony Fishes

POECILIIDAE—POECILIIDS

* Gambusia affinis—mosquitofish

Sunfishes and Freshwater Basses

CENTRARCHIDAE—SUNFISHES

- * Lepomis cyanellus—green sunfish
- * Micropterus salmoides—largemouth bass



Mammals

Canids

CANIDAE—WOLVES AND FOXES

Canis latrans-coyote

Domestic

CANIDAE-

Canis lupus familiaris—domestic dog

EQUIDAE—HORSES AND BURROS

- * Equus asinus—ass
- Equus caballus—domestic horse

BOVIDAE—BISON, GOATS AND SHEEP

* Boa taurus—domestic cattle

Hares and Rabbits

LEPORIDAE—HARES AND RABBITS

Lepus californicus—black-tailed jackrabbit Sylvilagus audubonii—desert cottontail Sylvilagus bachmani—brush rabbit

Squirrels

SCIURIDAE—SQUIRRELS

Spermophilus (Otospermophilus) beecheyi—California ground squirrel

Ungulates

BOVIDAE—BISON, GOATS AND SHEEP

* Capra hircus—goat

CERVIDAE—DEERS

Odocoileus hemionus-mule deer



Reptiles

Lizards

PHRYNOSOMATIDAE—IGUANID LIZARDS

Sceloporus occidentalis—western fence lizard Uta stansburiana—common side-blotched lizard

Snakes

B-7

COLUBRIDAE—COLUBRID SNAKES

Pituophis catenifer—gophersnake

VIPERIDAE—VIPERS

Crotalus oreganus-western rattlesnake

* signifies introduced (non-native) species



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Appendix C

Representative Photographs



Photograph 1. Looking south at annual grassland, stock pond (AF9), and solar array in April 2020.



Photograph 2. Representative photograph of botanical surveys within annual grassland in April 2020.



Photograph 3. Historic Crow Creek channel and adjacent orchard.



Photograph 4. View of the agricultural stock pond (AF5).



Photograph 5. Aquatic Feature 1 (AF 1) looking northeast.



Photograph 6. Aquatic Feature 4 (AF 4) looking northeast.



Photograph 7. Aquatic Feature 5 (AF 5) looking west.



Photograph 8. Aquatic Feature 9 (AF 9) looking northwest.



Photograph 9. Ephemeral drainage within annual grassland, looking east.



Photograph 10. Photo of an almond orchard within the project site, looking east.

Appendix D

Special-Status Plant and Wildlife Species and their Potential to Occur on the Paulsell Project Site

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Acmispon rubriflorus	red-flowered bird's-foot trefoil	None/None/1B.1	Cismontane woodland, valley and foothill grassland/annual herb/Apr-June/656-1,394	Not expected to occur. Modern and historical occurrences of this species within the 12-quad search are scarce. Moreover, the Paulsell Project Site is outside of elevation range of this species.
Allium sharsmithiae	Sharsmith's onion	None/None/1B.3	Chaparral, cismontane woodland; serpentine, rocky/perennial bulbiferous herb/Mar-May/1312-3,937	Not expected to occur. Outside of elevation range of this species.
Astragalus tener var. tener	alkali milk-vetch	None/None/1B.2	Playas, valley and foothill grassland (adobe clay), vernal pools; alkaline/annual herb/Mar-June/3-197	Not expected to occur. Suitable playa, grassland, and vernal pool habitat is not present within the Paulsell Project Site. Only CNDDB occurrence within the 12-quad search has been extirpated due to agricultural cultivation.
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/0-1,837	Moderate potential to occur. Valley/foothill grassland habitat present. Only CNDDB occurrence within the 12-quad search is believed to be extirpated.
Atriplex minuscula	lesser saltscale	None/None/1B.1	Chenopod scrub, playas, valley and foothill grassland; alkaline, sandy/annual herb/May-Oct/49-656	Moderate potential to occur. Valley/foothill grassland habitat present. One CNDDB occurrence documented approximately 7 miles northeast of project area (CDFW 2019; No. 34).
Atriplex persistens	vernal pool smallscale	None/None/1B.2	Vernal pools (alkaline)/annual herb/June-Oct/33-377	Not expected to occur. No vernal pool habitat present. Only CNDDB occurrence within the 12-quad search is potentially extirpated.
Blepharizonia plumosa	big tarplant	None/None/1B.1	Valley and foothill grassland; usually clay/annual herb/July- Oct/98-1,657	High potential to occur. Valley/foothill grassland habitat and some clay soils present. Closest CNDDB occurrence documented approximately 4 miles northwest of the Beltran Project area in 2005 (CDFW 2019; No. 60).
Campanula exigua	chaparral harebell	None/None/1B.2	Chaparral (rocky, usually serpentinite)/annual herb/May- June/902-4,101	Not expected to occur. Suitable chaparral habitat is absent. Moreover, the Paulsell Project Site is outside of the elevation range of this species.
Caulanthus lemmonii	Lemmon's jewelflower	None/None/1B.2	Pinyon and juniper woodland, valley and foothill grassland/annual herb/Mar-May/262-5,184	Moderate potential to occur. Valley/foothill grassland habitat present. However, both CNDDB occurrences within the 12-quad search are historical.
Delphinium californicum ssp. interius	Hospital Canyon larkspur	None/None/1B.2	Chaparral (openings), cismontane woodland (mesic), coastal scrub/perennial herb/Apr–June/640–3,593	Not expected to occur. Modern and historical occurrences of this species within the 12-quad search are scarce. Moreover, the Paulsell Project Site is outside of elevation range of this species.
Eryngium racemosum	Delta button-celery	None/SE/1B.1	Riparian scrub (vernally mesic clay depressions)/annual / perennial herb/June-Oct/10-98	Not expected to occur. Riparian scrub habitat is not present within the Paulsell Project Site. Both CNDDB occurrences within the 12-quad search are potentially extirpated.
Eryngium spinosepalum	spiny-sepaled button-celery	None/None/1B.2	Valley and foothill grassland, vernal pools/annual/perennial herb/Apr-May/262-3,199	Not expected to occur. Suitable grassland and vernal pool habitat is not present Paulsell Project Site.
Eschscholzia rhombipetala	diamond-petaled California poppy	None/None/1B.1	Valley and foothill grassland (alkaline, clay)/annual herb/Mar–Apr/0–3,199	Moderate potential to occur. Valley/foothill grassland habitat present. Historical CNDDB occurrence documented approximately 6 miles north of the Paulsell Project Site in 1940 (CDFW 2019; No. 2).
Fritillaria falcata	talus fritillary	None/None/1B.2	Chaparral, Cismontane woodland, Lower montane coniferous forest; serpentinite, often talus/perennial bulbiferous herb/Mar–May/980–5,005	Not expected to occur. Outside of elevation range of this species.
Leptosyne hamiltonii	Mt. Hamilton coreopsis	None/None/1B.2	Cismontane woodland (rocky)/annual herb/Mar-May/1,804-4,265	Not expected to occur. Outside of elevation range of this species.
Madia radiate	showy golden madia	None/None/1B.1	Cismontane woodland, valley and foothill grassland/annual herb/Mar-May/82-3,986	Moderate potential to occur. Valley/foothill grassland habitat present. However, only CNDDB occurrence within the 12-quad search is historical.
Malacothamnus hallii	Hall's bush-mallow	None/None/1B.2	Chaparral, coastal scrub/perennial evergreen shrub/May-Sep (Oct)/33-2,493	Not expected to occur. Suitable habitat absent.
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. Suitable habitat absent. Moreover, project area is outside of the elevation range of this species.
Phacelia phacelioides	Mt. Diablo phacelia	None/None/1B.2	Chaparral, cismontane woodland; rocky/annual herb/Apr-May/1,640-4,495	Not expected to occur. No suitable habitat is present within Paulsell Project Site. The only CNDDB occurrence within the 12-quad search was documented within the northern portion of the Beltran Project area in 2015 (CDFW 2019; No. 82).

DUDEK April 2021

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Puccinellia simplex	California alkali grass	None/None/1B.2	Chenopod scrub, meadows and seeps, valley and foothill grassland, vernal pools; alkaline, vernally mesic; sinks, flats, and lake margins/annual herb/Mar-May/7-3,051	Not expected to occur. Outside of elevation range of this species.
Sphenopholis obtusata	prairie wedge grass	None/None/2B.2	Cismontane woodland, meadows and seeps; mesic/perennial herb/Apr-July/984-6,562	Low potential to occur. Valley/foothill grassland habitat present. However, both CNDDB occurrences documented within the 12-quad search area are documented west of I-5.

Status:

State

SE: State listed as endangered

CRPR: California Rare Plant Rank

- 1B: Plants rare, threatened, or endangered in California and elsewhere.
- 2B: Plants rare, threatened, or endangered in California, but more common elsewhere.

Threat Rank

- 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)

Special-status Wildlife Species and their Potential to Occur on the Paulsell Project Site

Scientific Name	Common Name	Status (Federal/ State)	Primary Habitat Associations	Potential to Occur
			Invertebrates	
Bombus crotchii	Crotch bumble bee	None/PSE	Open grassland and scrub communities supporting suitable floral resources.	Low potential to occur. Suitable grassland habitat with marginal floral resources occurs on site; however, no scrub communities occur on site. The nearest CNDDB occurrence for this species is approximately 10 miles northwest of the Paulsell Project Site (CDFW 2020a).
Branchinecta lynchi	vernal pool fairy shrimp	FT/None	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats.	Not expected to occur. No suitable vernal pool habitat occurs within the Paulsell Project Site. However, there are no documented occurrences for this species within 5 miles of the Beltran Project site (CDFW 2020a).
Desmocerus californicus dimorphus	Valley elderberry longhorn beetle	FT/None	Occurs only in the Central Valley of California, in association with blue elderberry (Sambucus nigra ssp. caerulea).	Low potential to occur. A few scattered elderberry shrubs are present adjacent to Crow Creek along the southern border of the Paulsell Project Site. However, there are no documented occurrences for this species within 5 miles of the project site (CDFW 2020a). Additionally, the project would avoid these areas.
Lepidurus packardi	vernal pool tadpole shrimp	FE/None	Ephemeral freshwater habitats including alkaline pools, clay flats, vernal lakes, vernal pools, and vernal swales.	Not expected to occur. No suitable seasonal features that could potentially support this species occur within the Paulsell Project Site. There are no documented occurrences for this species within 5 miles of the Beltran Project site (CDFW 2020a).
			Amphibians	
Ambystoma californiense	California tiger salamander	FT/ST, WL	Annual grassland, valley–foothill hardwood, and valley–foothill riparian habitats; vernal pools, other ephemeral pools, and (uncommonly) along stream courses and built pools if predatory fishes are absent.	Low potential to occur. No aquatic habitats occur within the Paulsell Project Site. Additionally, potential aquatic habitats on the Beltran Project site are considered to be of low quality and unlikely to support CTS. The nearest CNDDB occurrence is approximately 9 miles south of the Paulsell Project Site (CDFW 2020a).
Rana boylii	foothill yellow-legged frog	None/SE, SSC	Rocky streams and rivers with open banks in forest, chaparral, and woodland.	Not expected to occur. The Beltran Project site lacks the suitable rocky stream and river habitat required for this species. Additionally, the nearest CNDDB occurrence for this species is approximately 5.6 miles southwest of the Paulsell Project Site (CDFW 2020a).

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Ociondific Nove	October Name	Status (Federal/	Primers Habitat Associations		
Scientific Name	Common Name	State)	Primary Habitat Associations	Potential to Occur	
Rana draytonii	California red-legged frog	FT/SSC	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands.	Not expected to occur. CRLF are not expected to breed within the Paulsell Project Site or vicinity due to the lack of margin vegetation and cover of aquatic sites, presence of aquatic predators (in some of these locations), large distance to any known occurrences, and the extremely limited distribution of CRLF in the vicinity of the Beltran Project area and west side of the Central Valley in general. The nearest CNDDB occurrence for this species is approximately 6.4 miles southeast of the Beltran Project site (CDFW 2020a).	
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.	Moderate potential to occur. Seasonal features that could potentially support this species occur near the Paulsell Project Site, and the site contains suitable grassland upland habitat. The nearest CNDDB occurrence for this species is approximately 2 miles northwest of the Beltran Project site (CDFW 2020a).	
			Reptiles		
Actinemys marmorata	northwestern pond turtle	None/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent vegetation and basking sites; adjacent uplands used for nesting and during winter.	Not expected to occur. The irrigation canal does not provide potentially suitable habitat for this species. The nearest CNDDB occurrence for this species is approximately 3.8 miles south of the Paulsell Project Site (CDFW 2020a).	
Anniella pulchra	Northern California legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley– foothill grassland, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils.	Not expected to occur. The Paulsell Project Site lacks sandy or loose soils typically associated with this species. Additionally, the nearest CNDDB occurrence for this species is approximately 10 miles northwest of the Paulsell Project Site (CDFW 2020a).	
Gambelia sila	blunt-nosed leopard lizard	FE/FP, SE	Sparsely vegetated alkali and desert scrubs, including semi-arid grasslands, alkali flats, and washes	Not expected to occur. Scrub habitat does not occur on the Paulsell Project Site. There are no recent occurrences in the vicinity and the site is located on the periphery of the species' range. Most extant occurrences are associated with the San Joaquin Valley floor to the south. The nearest CNDDB occurrence for this species is over 20 miles south of the Paulsell Project Site (CDFW 2020a).	
Masticophis flagellum ruddocki	San Joaquin whipsnake	None/SSC	Open, dry, treeless areas including grassland and saltbush scrub.	Moderate potential to occur. Suitable grassland habitat for this species and burrows for refugia occur on the Paulsell Project Site. The nearest CNDDB occurrence for this species is approximately 5 miles northwest of the Paulsell Project Site (CDFW 2020a).	
Phrynosoma blainvilli	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	Low potential to occur. Suitable grassland habitat for this species occurs on the Paulsell Project Site; however, the site lacks areas of sandy soil required for this species. Additionally, the nearest CNDDB occurrence for this species is over 14 miles southwest of the Paulsell Project Site (CDFW 2020a).	
Thamnophis gigas	giant garter snake	FT/ST	Freshwater marsh habitat and low-gradient streams; also uses canals and irrigation ditches	Low potential to occur. Marginally suitable aquatic habitat occurs on the Paulsell Project Site, but there are no CNDDB occurrences for this species within 5 miles (CDFW 2020a). The site is within the range of this species as mapped by USFWS (2020c) but it is outside the San Joaquin Basin recovery unit (east of 1-5) where it is presumed extant.	
Birds					
Agelaius tricolor (nesting colony)	tricolored blackbird	None/ST, SSC	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agricultural fields.	Low potential to occur. No suitable habitat to support a nesting colony is present on the Paulsell Project Site. However, marginally suitable foraging habitat (annual grassland) for this species occurs within the site. A large breeding colony of this species was observed on the Beltran Project site within Pond-1 during surveys conducted in 2019 and 2020.	

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Scientific Name	Common Name	Status (Federal/ State)	Primary Habitat Associations	Potential to Occur
Ammodramus savannarum (nesting)	grasshopper sparrow	None/SSC	Nests and forages in moderately open grassland with tall forbs or scattered shrubs used for perches.	High potential to occur. Suitable nesting and foraging grassland habitat occurs on the Paulsell Project Site, however this species was not documented during site surveys in 2019 and 2020. This species has been observed on the grasslands in the central part of Proxima Solar Energy Center site to the north of the Paulsell Project Site during Dudek's 2017 survey efforts for the Beltran Project (Dudek 2020a).
Aquila chrysaetos (nesting and wintering)	golden eagle	None/FP	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	Not expected to occur. Marginal nesting habitat occurs within the riparian areas along Crow Creek. The Paulsell Project Site provides marginally suitable foraging habitat. The nearest CNDDB occurrence for this species is approximately 5 miles south of the Beltran Project site (CDFW 2020a).
Asio flammeus	short-eared owl	None/SSC	Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields. Tule patches/tall grass needed for nesting/daytime seclusion. Nests on dry ground in depression concealed in vegetation.	High potential to occur. Suitable nesting and foraging grassland habitat occurs on the Paulsell Project Site, however this species was not documented during site surveys in 2019 and 2020. This species has been observed on the dry oat field in the central part of Proxima Solar Energy Center site to the north of the Beltran Project site during Dudek's 2017 survey efforts for the Beltran Project (Dudek 2020a).
Athene cunicularia (burrow sites & some wintering sites)	burrowing owl	None/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows.	High potential to occur. The Paulsell Project Site contains suitable grassland habitat with an abundance of ground squirrel burrows throughout. Additionally, road margins and areas with exposed, dry, culverts are often used by BUOW.
Buteo swainsoni (nesting)	Swainson's hawk	None/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.	High potential to occur. This species is known to nest in the region. However, no nests have been observed on the Paulsell Project Site. The Paulsell Project Site contains suitable nesting and foraging habitat for this species.
Circus cyaneus (nesting)	northern harrier	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.	High potential to occur. This species was observed foraging in several locations throughout the Beltran Project site during 2020 surveys and is known to nest in the region, however no nests have been observed on the Paulsell Project Site. The Paulsell Project Site contains suitable nesting and foraging habitat for this species.
Elanus leucurus (nesting)	white-tailed kite	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands.	Moderate potential to occur. Suitable nesting habitat does not occur within Paulsell Project Site; however, the Paulsell Project Site provides suitable foraging habitat for this species. This species was not documented during 2019 and 2020 site surveys, however white-tailed kite was observed foraging within the Proxima Solar Energy Center site to the north of the Beltran Project site during Dudek's 2017 survey efforts for the Beltran Project (Dudek 2020a).
Falco peregrinus (nesting)	peregrine falcon	FDL/FP	Nests on cliffs or tall buildings and bridges in nearly open habitat, mudflats, coastlines, lake edges and mountains.	Low potential to occur. This species was observed foraging within Pond-1 on the Beltran Project site during 2020 site surveys. However, the Paulsell Project Site lacks nesting habitat, and the lack of other observations of the highly visible species indicated this species does not typically forage on the site.
Haliaeetus leucocephalus (nesting and wintering)	bald eagle	FDL/SE, FP	Nests in forested areas adjacent to large bodies of water, including seacoasts, rivers, swamps, large lakes; winters near large bodies of water in lowlands and mountains.	Low potential to occur. Marginally suitable foraging habitat for this species occurs within the Paulsell Project Site.
Lanius ludovicianus (nesting)	loggerhead shrike	None/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches.	Moderate potential to occur. Marginally suitable habitat for this species occurs within the Paulsell Project Site. However, this species was observed foraging on numerous occasions on the Beltran Project site during 2020 surveys. Suitable nesting and foraging habitat occurs on the site.

Scientific Name	Common Name	Status (Federal/ State)	Primary Habitat Associations	Potential to Occur
Melospiza melodia	song sparrow ("Modesto" population)	None/SSC	Nests and forages in emergent freshwater marsh, riparian forest, vegetated irrigation canals and levees, and newly planted valley oak (Quercus lobata) restoration sites.	Moderate potential to occur. Some suitable aquatic habitat (canal) occurs within the Paulsell Project Site for this species. However, there are no documented occurrences for this species within 5 miles of the Beltran Project site (CDFW 2020a).
Vireo bellii pusillus (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season.	Not expected to occur. The Paulsell Project Site does not provide nesting or foraging habitat for this species. Additionally, there are no documented occurrences for this species within 5 miles of the Beltran Project site (CDFW 2020a).
			Fishes	
Hypomesus transpacificus	Delta smelt	FT/SE	Sacramento-San Joaquin Delta; seasonally in Suisun Bay, Carquinez Strait, and San Pablo Bay	Not expected to occur. The Paulsell Project Site does not contain suitable aquatic habitat for this species.
Lavinia symmetricus ssp. 1	San Joaquin roach	None/SSC	Tributaries to the San Joaquin River from the Cosumnes River south	Not expected to occur. The Paulsell Project Site does not contain suitable aquatic habitat for this species.
Mylopharodon conocephalus	hardhead	None/SSC	Low- to mid-elevation streams in the Sacramento – San Joaquin drainage; also present in the Russian River	Not expected to occur. The Paulsell Project Site does not contain suitable aquatic habitat for this species.
Oncorhynchus mykiss irideus pop. 11	steelhead - Central Valley DPS	FT/None	Coastal basins from Redwood Creek south to the Gualala River, inclusive; does not include summer-run steelhead	Not expected to occur. The Paulsell Project Site does not contain suitable aquatic habitat for this species.
Pogonichthys macrolepidotus	Sacramento splittail	None/SSC	Endemic to the lakes and rivers of the Central Valley, but now confined to the Delta, Suisun Bay, and associated marshes	Not expected to occur. The Paulsell Project Site does not contain suitable aquatic habitat for this species.
			Mammals	
Antrozous pallidus	pallid bat	None/SSC	Deserts, grasslands, shrublands, woodlands & forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Moderate potential to occur. The Paulsell Project Site does not contain suitable roosting substrates for this species. May forage in riparian communities along Crow Creek at the southern boundary of the Paulsell Project Site. However, there are no documented CNDDB occurrences within 5 miles of the Beltran Project site for this species (CDFW 2020a).
Corynorhinus townsendii	Townsend's big-eared bat	None/SSC	Mesic vegetation communities, including coniferous and deciduous forests and riparian, but also xeric areas; roosts in limestone caves and lava tubes, and also built structures and tunnels.	Moderate potential to occur. The Paulsell Project Site does not contain suitable roosting substrates for this species. May forage in riparian communities along Crow Creek at the southern boundary of the Paulsell Project Site. However, there are no documented CNDDB occurrences within 5 miles of the Beltran Project site for this species (CDFW 2020a).
Dipodomys nitratoides exilis	Fresno kangaroo rat	FE/SE	Alkali sink/open grassland habitats; sands and saline sandy soils in chenopod scrub	Low potential to occur. Suitable grassland habitat for this species occurs on the Paulsell Project Site; however, the site lacks areas of sandy soil required for this species. Additionally, there are no documented occurrences for this species within 5 miles of the Paulsell Project Site (CDFW 2020a).
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.	Moderate potential to occur. The Paulsell Project Site does not contain suitable roosting substrates for this species. May forage in riparian communities along Crow Creek at the southern boundary of the Paulsell Project Site. However, there are no documented CNDDB occurrences within 5 miles of the Beltran Project site for this species (CDFW 2020a).
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 occur. The Paulsell Project Site contain suitable roosting substrates for this species in the existing agricultural land covers. May forage in riparian communities along Crow Creek at the southern boundary of the Paulsell Project Site. However, there are no documented CNDDB occurrences within 5 miles of the Beltran Project site for this species (CDFW 2020a).
Sylvilagus bachmani riparius	riparian brush rabbit	FE/SE	Dense thickets of wild rose, willows, and blackberries growing along the banks of San Joaquin and Stanislaus Rivers.	Not expected to occur. The Paulsell Project Site does not contain the suitable thick vegetative habitat that is required for this species.

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Scientific Name	Common Name	Status (Federal/ State)	Primary Habitat Associations	Potential to Occur
				Additionally, there are no documented occurrences for this species within 5 miles of the Beltran Project site (CDFW 2020a).
Taxidea taxus	American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils.	Moderate potential to occur. The Paulsell Project Site provides suitable grassland habitat for this species. During field surveys suitable burrows were observed; however, none of the burrows were identified as occupied by American badger. The nearest CNDDB occurrence for this species is approximately 1 mile northwest of the Beltran Project site (CDFW 2020a).
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 Paulsell Project Site provides suitable habitat for denning and foraging, and suitable burrows were detected during field surveys. However, no active dens or burrows were identified during focused burrow surveys. No positive findings from focused scat detection surveys. Species may occur as a transient or use the Paulsell Project Site during dispersal movements. The nearest CNDDB occurrence for this species is from 1989 approximately 0.5 miles northwest of the easternmost collector alignment (CDFW 2020a).

Status Legend

Federal FDL: Federally delisted

FE: Federally listed as endangered FT: Federally listed as threatened

State

FP: CDFW Fully Protected species
PSE: Proposed state endangered
SE: State listed as endangered
SSC: CDFW Species of Special Concern
ST: State listed as threatened

WL: State Watch List species

D-6

Appendix E

San Joaquin Kit Fox - Dog Detection Deployment Report

Paulsell Solar Energy Center Detection Dog Deployment



Prepared for

DUDEK 605 Third Street Encinitas, CA 92024

Prepared by

Deborah (Smith) Woollett, PhD Working Dogs for Conservation P.O. Box 280 Bozeman, Montana 59771 deb@wd4c.org

March 2021

Background

The San Joaquin kit fox (*Vulpes macrotis mutica*) historically inhabited most of the San Joaquin Valley, California, with its range extending from southern Kern County north to Contra Costa, Alameda, and San Joaquin Counties on the west side of the Valley and to Stanislaus County on the east side; in some of the larger, uncultivated valley-floor land parcels in Kern, Tulare, Kings, Fresno, Madera, and Merced Counties; and westward in 5 counties in the interior coastal range (U.S. Fish & Wildlife Service [USFWS] 1998). More than 95% of the potential habitat for kit foxes on the San Joaquin Valley floor has since been converted to irrigated agriculture, urbanized, or industrialized. The San Joaquin kit fox was listed as endangered by the USFWS in 1967 and as threatened by the State of California in 1971.

Though monitoring has not been continuous, local surveys, records, and research projects indicate that currently the largest extant populations of San Joaquin kit fox are concentrated in the southern part of the range, while smaller populations and isolated sightings exist in the central and northern portions (USFWS 1998, 2010). Specific to Stanislaus and nearby counties, recent knowledge of kit fox status is limited due to lack of large-scale surveys and limited access to private lands; however, foxes have been documented in western Madera and eastern Stanislaus counties (Williams 1990), and sightings have been recorded in western Stanislaus, Merced, and Fresno counties and in eastern San Benito County (Endangered Species Recovery Program, unpubl. data, USFWS 2010, Westervelt Ecological Services 2020).

In 2020, Working Dogs for Conservation (WD4C) was contracted by DUDEK to provide professional conservation detection dog teams to survey for scats of San Joaquin kit fox at the Paulsell Solar Energy Center (Paulsell) in Crows Landing, California. The purpose of the surveys was to obtain information on kit fox use of the site.

The method of using formally trained conservation dogs to survey for scats of rare or endangered species – followed by subsequent DNA analysis of scats found – allows for a rapid and accurate way to assess presence of target wildlife in an area (MacKay et al. 2008). To date, dogs have been deployed in natural environments to seek the scats of a multitude of species, including gray wolf (*Canis lupus*; Beckmann 2006), fisher (*Martes pennanti*; Long et al. 2007, Thompson et al. 2012), cougar (*Puma concolor*; Beckmann 2006), grizzly bear (*Ursus arctos*; Wasser et al. 2004, Beckmann 2006), black bear (*Ursus americanus*; Wasser et al. 2004, Beckmann 2006, Long et al. 2007), bobcat (*Lynx rufus*; Harrison 2006, Long et al. 2007), moose (*Alces alces*; Kretser & Glennon 2011), river otter (*Lontra canadensis*; Richards et al. 2018), black-footed ferret (*Mustela nigripes*; Reindl-Thompson et al. 2006) and North Atlantic right whale (*Eubalaena glacialis*; Rolland et al. 2006).



K9 Rue during surveys to detect kit fox scat at the Paulsell Solar Energy Center. Dogs are trained to sit (or down) when they locate a scat, and will receive a toy reward before continuing the search. Photo: WD4C

In particular for San Joaquin kit fox, where scats are small (~1-3 cm) and cryptic, conservation doghandler teams have proven useful as a valuable scat detection tool, increasing both the potential for discovery as well as the number of samples recovered (Smith et al. 2003, Ralls & Smith 2004, Wilbert et al. 2015, Wilbert et al. 2019). This type of monitoring method was demonstrated to be successful in confirming the presence of kit fox in known core and satellite population areas with various fox densities and habitat types (Smith et al. 2005). Because dogs can locate both fresh and aged scats, data on current presence as well as recent past in an area can be determined.

Surveys were conducted on the Paulsell property in late October 2020. Subsequent genetic analysis of DNA extracted from any scats collected during the survey effort was to be carried out by the Mammalian Ecology and Conservation Unit of the Veterinary Genetics Laboratory at the University of California, Davis to confirm kit fox presence in the study area. This report provides the methods and results of these surveys.

Methods

Study area

Surveys were conducted at the Paulsell project site in Stanislaus County (Figure 1). The study area is approximately 242 acres in size. Occurrence of kit fox remained unknown at the time detection dog surveys were conducted.

Scat survey

During 28 to 31 October 2020, surveys for scats of kit fox were systematically conducted on transect routes throughout the Paulsell study area (Figure 1). To adequately obtain high capture probabilities, transects were established to purposely take advantage of common kit fox travel ways and places where they, similar to other carnivores, frequently deposit scats (e.g., unpaved roads, fence-lines) (MacDonald 1980, Kohn et al. 1999, Koopman et al. 2001, Smith et al. 2005, Ruell et al. 2009, Woollett (Smith), unpubl. data). Additionally, search routes consisted of transect legs spaced at approximately 200 meters apart in vegetation/orchard to consistently bisect any part of a hypothetical kit fox home range multiple times using previous estimates of an average home range size of approximately 6 to 16 km² in highly to moderately suitable habitats (Nelson et al. 2007, Cypher et al. 2013).

Approximately 7.78 km of linear scat detection transects were established in the study area. Transect legs were viewed as linear belts of survey activity, and prior research indicated detection dogs found kit fox scats at a mean distance of 4.8 ± 6.7 m from the transect line (range 0 - 38.40 m; Ralls & Smith 2004).

Three detection dog/biologist-handler teams were used to locate scats along transects. Each dog was trained using standard and established methods of conservation dog programs (Smith et al. 2003, MacKay et al. 2008, Hurt and Smith 2009, Hurt et al. 2016) to locate the odor of kit fox scat and give an alert to its handler at the source of the odor by sitting (or lying down) next to the scat. Field searches involve the handler walking the transect line while the dog ranges and quarters ahead of the handler, working all the while to encounter target odor (MacKay et al. 2008).

In the interest of not excluding any possible kit fox scat, some non-target scats [e.g., coyote (*Canis latrans*), red fox (*V. vulpes*), gray fox (*Urocyon cinereoargenteus*)] had the potential to also be collected during surveys. A handler may inadvertently collect non-target scat when a dog correctly locates a latrine containing fresh scats from multiple canids (i.e., fox/coyote; Ralls & Smith 2004); when a dog errs in scent discrimination and keys on a similar (yet incorrect) target; or when a dog selects an incorrect target when few target scats are present in order to receive a reward (Schoon 1996, Smith et al. 2003). Therefore, any scat sample located was to be collected, stored in a plastic bag containing one

teaspoon of silica gel for desiccation (Fisher Scientific, Pittsburgh, PA), and shipped to the genetics laboratory for DNA verification of species (Bozarth et al. 2010). Additionally, the location of each potential kit fox scat collected was to be geo-referenced with a global positioning system (GPS).

For supplemental information purposes, biologist-handlers also noted visual observations of any wild canid using the property.

Results and Discussion

A total of 7.78 km of transect legs were searched on the approximately 242-acre study area (Table 1). No kit fox scats were found.

Table 1. Summary of transects covered.

Transect	# of scats located	Distance surveyed (km)	
1	0	6.45	
2	0	0.31	
3	0	1.02	

The results of the detection dog surveys do not support the presence of kit fox at the Paulsell property at this time. Previously scat collection in satellite and core populations with various kit fox densities found on average 18.65 ± 18.51 scats/km (range: 0.25 - 52.25 scats/km; Smith et al. 2005). If scats were available for detection at the Paulsell site, it is highly likely that they would have been detected through the broad transect system established. The absence of kit fox scats at this property suggests that currently it is not supporting resident foxes.

Because the number of kit foxes can vary greatly from year to year (Moehrenschlager et al. 2004), and successful dispersal may allow individuals to occupy areas between established populations (Koopman et al. 2001), it is possible that foxes occur intermittently as transient individuals or use the site opportunistically. Even so, findings from these current surveys are consistent with the absence of positive sightings or other confirmed data in recent years. Prior studies document that kit fox deposit scats singly, in pairs, and at latrines throughout their territories, and also regularly mark conspicuous objects and places (e.g., fence posts, carcasses, skulls, cement objects, trash litter, coyote scats, animal trail intersections) (Ralls & Smith 2004; Woollett (Smith), unpubl. data). Additionally, dogs are capable of locating scats that range from fresh to several weeks to several months old (Smith et al. 2003, Woollett (Smith), unpubl. data). The surveys resulted in no kit fox scats of any age found across the

entire Paulsell property, not even on typical fox movement paths or at abundant marking places existing on site.

Biologist-handlers visually observed scats of coyote during surveys. Although coyotes are a primary cause of kit fox mortality and high coyote densities can threaten kit fox (Ralls & White 1995, Spiegel 1996, Cypher et al. 2000, USFWS 2010), in general, this larger canid does not competitively exclude kit fox, and both species that have co-evolved will occur together in most areas and partition resources adequately to allow for coexistence (Clark et al. 2005, Nelson 2005).

Furthermore, kit foxes might benefit from the presence of coyotes because of the negative effects of coyote-fox interactions to red foxes (Cypher et al. 2001). Coyotes are known to be a significant source of mortality for red foxes (Sargeant & Allen 1989), and their presence can deter non-native red foxes from establishing or continuing residency (Cypher et al. 2001). This in turn is beneficial to kit foxes who are increasingly threatened by introduced red fox (USFWS 2010).

Overall, conservation dog surveys offer an effective way to obtain species information, increasing both the potential for detection as well as the number of scats recovered to confirm presence in an area (MacKay et al. 2008, Woollett et al. 2014). Here, surveys yielded no sign of kit fox and suggest a low probability of kit fox currently occurring at the Paulsell site.

Acknowledgements

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Figure

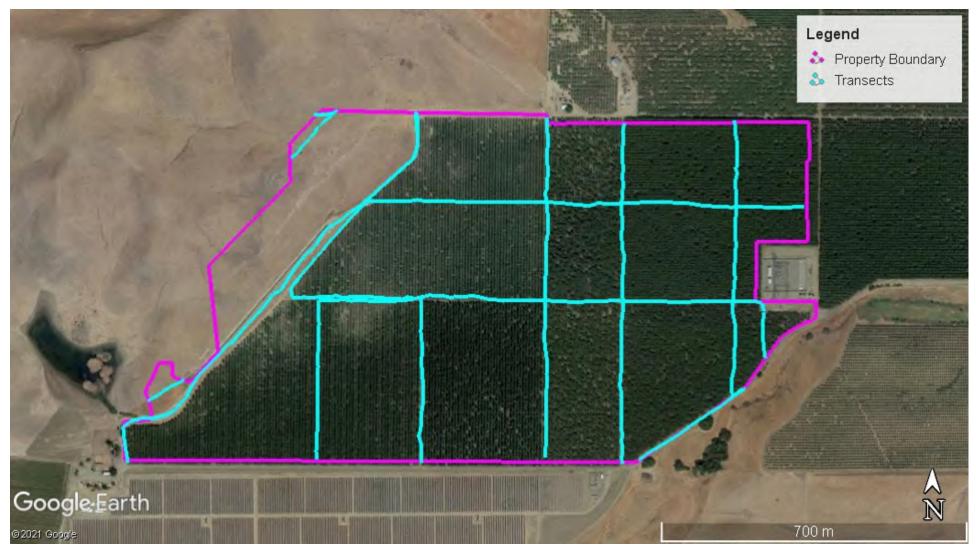


FIGURE 1. SURVEY AREA AND TRANSECTS AT THE PAULSELL SOLAR ENERGY CENTER PROJECT SITE. The area specified for surveys is indicated, and all scat detection transects are overlaid.

Appendix E

Cultural Resources Report

MEMORANDUM

To: Patti Murphy and Dexter Liu – Crow Creek Solar, LLC

From: Adam Giacinto, William Burns – Dudek

Subject: Cultural Resources Records Search Summary for the Paulsell Solar Energy Center

Date: April 15, 2021
Attachment: NADB Information
Figure 1. Project Site

Figure 2. Proposed Project

Appendix A: CCIC Records Search Information (Confidential)

Appendix B: NAHC Sacred Lands File Search

This memorandum documents the cultural resources records search conducted by Dudek for the Paulsell Solar Energy Center ("Project"), located approximately 8 miles south of the City of Patterson, in Stanislaus County, California. All cultural resource fieldwork and reporting for this Project has been conducted by archaeologists meeting the Secretary of the Interior's Professional Qualifications Standards. Results from a Native American Heritage Commission ("NAHC") Sacred Lands File search request returned negative results. A Central California Information Center ("CCIC") records search failed to identify previously recorded cultural resources within the Paulsell Solar Energy Center Project Site.

1 Project Location and Description

Crow Creek Solar, LLC ("Crow Creek Solar") proposes to amend the existing conditional use permit ("CUP") for the Scatec Westside Solar Ranch ("Approved Project"), approved by Stanislaus County ("County") in November 2010 and supported by an adopted mitigated negative declaration ("MND") through a County Staff Approval Permit. The proposed Paulsell Project is designed to generate up to 20 megawatts of electricity on approximately 232 acres and would require support facilities consisting of access roads, fencing, medium-voltage stations, a project collector substation, a battery energy storage system ("BESS"), an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, operations and maintenance ("O&M") building, supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment.

The Paulsell Project would be located on a site covered by an existing MND titled Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration ("2010 MND"). The CUP for the Approved Project (No. 2010-09) allows for the construction, operation, and decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre site, which was part of the original Scatec Westside Solar Ranch CUP ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project Site would be located within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND.

1



The Paulsell Project includes a solar energy facility similar to the Approved Project. The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres, as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed. This increase will be contained entirely within the area previously analyzed and approved for the Original Project Site in the 2010 MND. The Paulsell Project also proposes the potential development of additional support facilities, as described above. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the CUP and 2010 MND.

The 2010 MND indicates that a Historical and Cultural Records Search was conducted by the CCIC for the Approved Project. No prehistoric or historic archaeological resources or historic properties were reported to the CCIC. Crow Creek Solar, LLC has not been able to identify records of an on-site survey conducted as part of the 2010 Scatec MND. As the records search is over 10 years old, Dudek was contacted to conduct an updated recent records search at the CCIC.

The Project is located at 24776 Davis Road in unincorporated Stanislaus County, southwest of the Fink Road Sanitary Landfill operated by Stanislaus County, west of Interstate 5 and the California Aqueduct, in the Newman/Crows Landing area. The Project would be located on two Assessor's Parcels (025-017-019 and 027-017-090) with an acreage of approximately 261 acres. The Project falls within PLSS Section 36 of Township 6 South, Range 7 East and Section 31 of Township 6 South, Range 8 East on the Patterson quadrangle 7.5-minute U.S. Geological Survey topographic map.

2 Regulatory Context

While the Project as currently planned is subject only to state and local regulatory conditions, federal regulations are also provided here for reference should they be relevant in the future.

Federal Regulations

National Historic Preservation Act

The National Historic Preservation Act ("NHPA") established the National Register of Historic Places ("NRHP") and the President's Advisory Council on Historic Preservation, and provided that states may establish State Historic Preservation Officers to carry out some of the functions of the NHPA. Most significantly for federal agencies responsible for managing cultural resources, Section 106 of the NHPA directs that "[t]he head of any Federal agency having direct or indirect jurisdiction over a proposed Federal or federally assisted undertaking in any State and the head of any Federal department or independent agency having authority to license any undertaking shall, prior to the approval of the expenditure of any Federal funds on the undertaking or prior to the issuance of any license, as the case may be, take into account the effect of the undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the NRHP." Section 106 also affords the President's Advisory Council on Historic Preservation a reasonable opportunity to comment on the undertaking (16 USC 470f).

36 Code of Federal Regulations, Part 800 (36 CFR 800) implements Section 106 of the NHPA. It defines the steps necessary to identify historic properties (those cultural resources listed in or eligible for listing in the NRHP),

including consultation with federally recognized Native American tribes to identify resources with important cultural values; to determine whether or not they may be adversely affected by a proposed undertaking; and the process for eliminating, reducing, or mitigating the adverse effects.

The content of 36 CFR 60.4 defines criteria for determining eligibility for listing in the NRHP. The significance of cultural resources identified during an inventory must be formally evaluated for historic significance in consultation with the California State Historic Preservation Officer to determine if the resources are eligible for inclusion in the NRHP. Cultural resources may be considered eligible for listing if they possess integrity of location, design, setting, materials, workmanship, feeling, and association. The criteria for determining eligibility are essentially the same in content and order as those outlined under the California Environmental Quality Act ("CEQA"), but the criteria under NHPA are labeled A through D (rather than 1–4 under CEQA).

Regarding criteria A through D of Section 106, the quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, cultural resources, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and that:

- A. are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. are associated with the lives of persons significant in our past; or
- C. embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. have yielded or may be likely to yield, information important in prehistory or history [36 CFR 60.4].

The current cultural resources inventory is not designed to generate enough data to make eligibility recommendations on previously recorded cultural resources that are outside of the area of potential effect, or newly discovered cultural resources; such determinations are typically made during a subsequent evaluation phase (e.g., excavations at prehistoric sites). However, the survey was designed to generate enough information to provide informal assessments of eligibility to help guide management considerations.

State of California

California Register of Historical Resources

In California, the term "historical resource" includes "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code ["PRC"], Section 5020.1(j)). In 1992, the California legislature established the California Register of Historical Resources ("CRHR") "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California PRC, Section 5024.1(a)). The criteria for listing resources on the CRHR, enumerated in the following text, were developed to be in accordance with previously established criteria

developed for listing in the NRHP. According to California PRC, Section 5024.1(c)(1-4), a resource is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria:

- 1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- 2. Is associated with the lives of persons important in our past.
- 3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
- 4. Has yielded, or may be likely to yield, information important in prehistory or history.

To understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (14 California Code of Regulations ["CCR"] 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

California Environmental Quality Act

The following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

- California PRC, Section 21083.2(g), defines "unique archaeological resource."
- California PRC, Section 21084.1, and CEQA Guidelines, Section 15064.5(a), define "historical resources."
 In addition, CEQA Guidelines, Section 15064.5(b), defines the phrase "substantial adverse change in the significance of an historical resource." It also defines the circumstances when a project would materially impair the significance of a historical resource.
- California PRC, Section 21074(a), defines "tribal cultural resources."
- California PRC, Section 5097.98, and CEQA Guidelines, Section 15064.5(e), set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony. The Native American Heritage Commission (NAHC) is consulted to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act makes it a misdemeanor, punishable by up to 1 year in jail, to deface or destroy a Native American historic or cultural site that is listed or may be eligible for listing in the CRHR.

Under CEQA, a project may have a significant effect on the environment if it exceeds the thresholds of significance stated in the Appendix G Guidelines:

a) Causes a substantial adverse change in the significance of a historical resources as defined in 14 CCR 15064.5(b).



- b) Causes a substantial adverse change in the significance of an archaeological resource pursuant to 14 CCR 15064.5(b).
- c) Directly or indirectly destroys a unique paleontological resource or site or unique geologic feature.
- d) Disturbs any human remains, including those interred outside of formal cemeteries.

If a site is either listed or eligible for listing in the CRHR, included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of California PRC, Section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California PRC, Section 21084.1; 14 CCR 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource, even if it does not fall within this presumption (California PRC, Section 21084.1; 14 CCR 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (14 CCR 15064.5(b)(1); California PRC Section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project does any of the following:

- 1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
- 2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the California PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the California PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- 3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA (14 CCR 15064.5(b)(2)).

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project would cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (California PRC, Section 21083.2(a), (b), and (c)).

California PRC, Section 21083.2(g), defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

- 2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
- 3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Impacts to nonunique archaeological resources are generally not considered a significant environmental impact (California PRC, Section 21083.2(a); 14 CCR 15064.5(c)(4)). However, if a nonunique archaeological resource qualifies as tribal cultural resource (California PRC, Sections 21074(c), 21083.2(h)), further consideration of significant impacts is required.

CEQA Guidelines, Section 15064.5, assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered (14 CCR 15064.5). As described in the following text, these procedures are detailed in California PRC, Section 5097.98.

California State Assembly Bill 52

Assembly Bill ("AB") 52 of 2014 amended California PRC, Section 5097.94, and added PRC, Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 established that tribal cultural resources must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. California PRC, Section 21074, defines tribal cultural resources as follows:

- 1. "Tribal cultural resources" are either of the following:
 - a. Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
 - i. Included or determined to be eligible for inclusion in the California Register of Historical Resources.
 - ii. Included in a local register of historical resources as defined in subdivision (k) of Section 5020.1.
 - b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Section 5024.1. In applying the criteria set forth in subdivision (c) of Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American tribe.
- 2. A cultural landscape that meets the criteria of subdivision (a) is a tribal cultural resource to the extent that the landscape is geographically defined in terms of the size and scope of the landscape.
- 3. A historical resource described in Section 21084.1, a unique archaeological resource as defined in subdivision (g) of Section 21083.2, or a "nonunique archaeological resource" as defined in subdivision (h) of Section 21083.2 may also be a tribal cultural resource if it conforms with the criteria of subdivision (a).

AB 52 formalizes the lead agency–tribal consultation process, requiring the lead agency to initiate consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of the proposed project, including tribes that may not be federally recognized, and that have requested in writing that the lead agency notify them of proposed projects within such geographic area. Lead agencies are required to begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

Section 9 of AB 52 establishes that "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment." Section 6 of AB 52 added Section 21080.3.2 to the California PRC, which states that parties may propose mitigation measures "capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, if a California Native

American tribe requests consultation regarding project alternatives, mitigation measures, or significant effects to tribal cultural resources, the consultation shall include those topics (California PRC Section 21080.3.2(a)). The environmental document and the mitigation monitoring and reporting program (where applicable) shall include any mitigation measures that are adopted (California PRC Section 21082.3(a)).

Native American Human Remains

State law (California PRC, Section 5097 et seq.) addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and established the NAHC.

In the event that Native American human remains or related cultural material are encountered, Section 15064.5(e) of the CEQA Guidelines (as incorporated from California PRC, Section 5097.98) and California Health and Safety Code, Section 7050.5, define the subsequent protocol. In the event of the accidental discovery or recognition of any human remains, excavation or other disturbances shall be suspended on the site or any nearby area reasonably suspected to overlie adjacent human remains or related material. Protocol requires that the County Coroner or County-approved Coroner represented be contacted in order to determine if the remains are of Native American origin. Should the coroner determine the remains to be Native American, the coroner must contact the NAHC within 24 hours. The most likely descendant may make recommendations to the landowner or the person responsible for the excavation work for means of treating, with appropriate dignity, the human remains and any associated grave goods as provided in California PRC, Section 5097.98 (14 CCR 15064.5(e)).

California Health and Safety Code, Section 7050.5

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code, Section 7050.5, requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains can occur until the County Coroner has examined the remains (California Health and Safety Code, Section 7050.5b). California PRC, Section 5097.98, also outlines the process to be followed in the event that remains are discovered. If the County Coroner determines or has reason to believe the remains are those of a Native American, the County Coroner must contact the California NAHC within 24 hours (California Health and Safety Code, Section 7050.5c). The NAHC will notify the most likely descendant. With the permission of the landowner, the most likely descendant may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the most likely descendant by the NAHC. The most likely descendant may recommend means of treating or disposing of, with appropriate dignity, the human remains and items associated with Native Americans. California PRC, Sections 21083.2(b-c), and CEQA Guidelines, Section 15126.4, provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures. Preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context and may also help avoid conflict with religious or cultural values of groups associated with the archaeological sites.

3 Records Search

A records search of the Project and the surrounding 0.5 mile was completed by CCIC staff on July 27, 2020 (Confidential Appendix A). This search included their collection of mapped prehistoric, historical, and built-environment resources, Department of Parks and Recreation Site Records, technical reports, archival resources, and ethnographic references. Additional consulted sources included the NRHP, California Inventory of Historical Resources/CRHR and listed Office of Historic Preservation Archaeological Determinations of Eligibility, California Points of Historical Interest, California Historical Landmarks, and Caltrans Bridge Survey information.

Previously Conducted Cultural Resources Studies

CCIC records indicate that seven previous cultural resources technical investigations have been conducted within 0.5 miles of the Project. Of these, one study intersects the current Project (Table 1).

Table 1. Previously Conducted Technical Studies

Report ID	Year	Author	Title			
Previous technical reports intersecting the Project						
ST-00868	1988	Holman, M.P.	Letter Report: RE: Beltran Shumake Planned Development Archaeological Report [Sensitivity Assessment]			
Previous technical reports within one-half mile of the Project						
ST-00621	1990	Moratto, M. et al.	Cultural Resources Assessment Report PGT-PG&E Pipeline Expansion Project in Idaho, Washington, Oregon and California; Phase 1: Survey, Inventory, and Preliminary Evaluation of Cultural Resources [CCIC has only a partial copy of report]			
ST-00854	1984	Banks, P.M.	An Archaeological Reconnaissance of the Fink Road Landfill Project, Stanislaus County, California			
ST-001846	1992	Canaday, T., M. Ostrogorsky, and M. Hess	Archaeological Survey of Right-of-Way Corridor and Extra Work Spaces Construction Spread 5B, California; PGT- PG&E Pipeline Expansion Project, California			
ST-02753	1994	Moratto, M., R. Pettigrew, B. Price, L. Ross, and R. Schalk	Archaeological Investigations PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon, and California, Volumes 1-V (1994–1995) [Only Vol. I and IV are unbound and available at CCIC: Vol. I = Project Overview, Research Design and Archaeological Inventory; Vol. IV = Synthesis of Findings]			
ST-003643	1999	Davis-King, S. and J. Marvin	Historic Properties Survey Report for the Proposed Fink Road Landfill Expansion, Stanislaus County, California			
ST-08638	2015	Jordan, N.	Letter Report: South County Corridor Feasibility Study - Cultural Resources Constraints Analysis			

Previously Identified Cultural Resources

No cultural resources have been recorded within the Project. A single cultural resource, the California Aqueduct (P-50-001903), is recorded east of the Project and within the surrounding 0.5-mile records search area (Table 2; Confidential Appendix A).

Table 2. Previously Recorded Cultural Resources

Primary ID	Trinomial	Name	Туре	Age	Attributes	
Previously recorded resources intersecting the Project						
None						
Previously recorded resources within 0.5 miles of the Project						
P-50-001903	None	California Aqueduct	Structure	Historic	Aqueduct	

Review of Historical Maps and Aerial Imagery

Dudek consulted historic-era maps and aerial photographs to understand development of the Project and surrounding properties (NETR 2020). Historic aerial photographs, available from 1953 to 2016, and historic maps, available from 1916 to 2018, were inspected to observe previous development in the Project area. These maps and images show that the Project Site was used exclusively for grazing and agriculture. No prior development was observed in within the Project Site.

NAHC Sacred Land File Search

Dudek requested a NAHC search of their Sacred Lands File on September 11, 2020, for the Project Site (Appendix B). Results for this search were provided by the NAHC on September 29, 2020. Results were negative, failing to locate any cultural resources in the vicinity of the Project.

4 Review of Setting and Archaeological Sensitivity

Potential for yet identified cultural resources in the vicinity was reviewed against geologic and topographic geographic information system data for the area and information from other nearby projects. The "archaeological sensitivity," or potential to support the presence of a buried prehistoric archaeological deposits, is generally interpreted based on geologic landform, environmental parameters (i.e., distance to water and landform slope), and an area's history of use.

The Project is located in an area of flat land surrounded by undulating hills forming the eastern edge of the California's coastal ranges. The soils consist of clay loams (USDA 2020). No major drainages occur within the Project Site. The Project Site has been subject to minor disturbances from grazing and agriculture throughout the decades. In consideration of this information and the lack of fresh water sources within and near the Project Site, the Project Site has a low-moderate potential to support the presence of intact buried prehistoric archaeological resources and a low potential for intact historical archaeological deposits.

5 Summary and Management Considerations

The present effort was intended to update records search information and did not represent a full cultural resources investigation. The present Project will be constructed within the Original Project Site of the approved Scatec Westside Solar Ranch MND. No archaeological resources were identified within the Project Site or immediate vicinity as a result of the CCIC records search or NAHC Sacred Lands File search. A review of the Project setting and geology indicates the area has a low-moderate potential to contain unanticipated cultural resources.

Should you have any questions relating to this report and its findings please do not hesitate to contact me directly.

Respectfully submitted,

Adam Giacinto, MA, RPA

Archaeologist

DUDEK

T: 530.863.4653 agiacinto@dudek.com

cc: William Burns, Dudek

David Hochart, Dudek Jennifer Sucha, Dudek

Att: NADB Information

Figure 1. Project Site Figure 2. Proposed Project

Appendix A: CCIC Records Search Information (Confidential)

Appendix B: NAHC Sacred Lands File Search

6 References Cited

NETR (National Environmental Title Research LLC). Historic Aerials. Accessed September 2020.

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USDA (U.S. Department of Agriculture). 2020. Web Soil Survey. USDA, Natural Resources Conservation Service, Soil Survey Staff. Accessed September 2020. http://websoilsurvey.sc.egov.usda.gov/ App/ HomePage.htm.

National Archaeological Data Base Information

Authors: Adam Giacinto, MA, RPA, and William Burns MSc, RPA

Firm: Dudek

Client/Project Proponent: Crow Creek Solar, LLC

Report Date: 10/9/2020

Report Title: Cultural Resources Records Search Summary for the Paulsell Solar Energy Center

in Stanislaus County, California

Type of Study: Cultural Resources Inventory

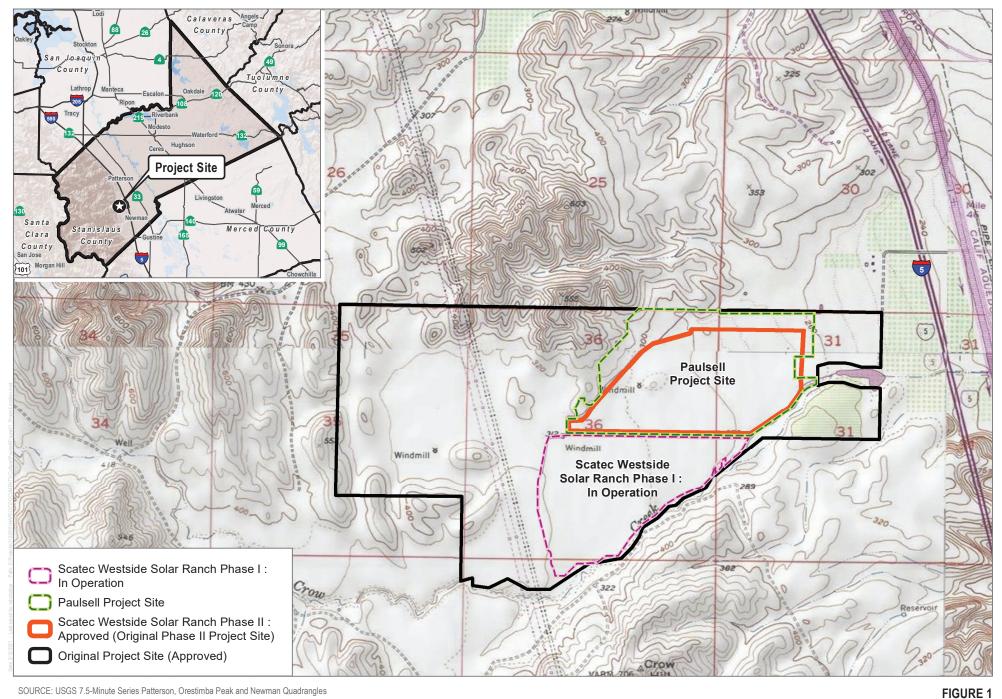
New Sites: None

Updated Sites: None

USGS Quad: Patterson 7.5-minute

Acreage: Approximately 261 acres

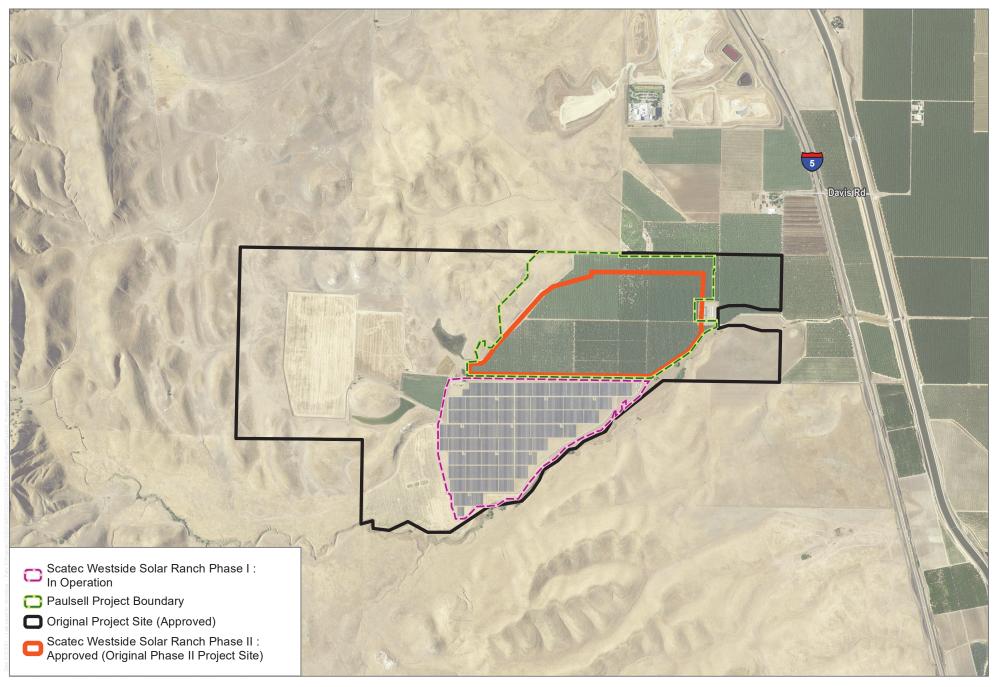
Key Words: Paulsell Solar, Patterson, CEQA, Pedestrian Survey



SOURCE: USGS 7.5-Minute Series Patterson, Orestimba Peak and Newman Quadrangles

Project Site

Paulsell Solar Energy Center



SOURCE: USDA 2016, Stanislaus County 2018

DUDEK 6 0 1,000 2,000 Feet

FIGURE 2
Proposed Project
Paulsell Solar Energy Center

Appendix A

CCIC Records Search Information (Confidential)

Appendix B

NAHC Sacred Lands File Search



NATIVE AMERICAN HERITAGE COMMISSION

September 29, 2020

William Burns

DUDEK

Via Email to: wburns@dudek.com

CHAIRPERSON **Laura Miranda**Luiseño

VICE CHAIRPERSON Reginald Pagaling Chumash

SECRETARY

Merri Lopez-Keifer

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Paiute/White Mountain
Apache

COMMISSIONER
Julie TumamaitStenslie
Chumash

COMMISSIONER [Vacant]

COMMISSIONER [Vacant]

EXECUTIVE SECRETARY

Christina Snider

Pomo

NAHC HEADQUARTERS

1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 nahc@nahc.ca.gov NAHC.ca.gov Re: Beltran Solar Energy Center (Dudek # 12603), Stanislaus County

Dear Mr. Burns:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were <u>negative</u>. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Nancy.Gonzalez-Lopez@nahc.ca.gov.

Sincerely,

Nancy González-Lopez Cultural Resources Analyst

Attachment

Native American Heritage Commission Native American Contact List Stanislaus County 9/29/2020

North Valley Yokuts Tribe

Timothy Perez, MLD Contact

P.O. Box 717 Linden, CA, 95236 Phone: (209) 662 - 2788 Costanoan Northern Valley Yokut

huskanam@gmail.com

North Valley Yokuts Tribe

Katherine Perez, Chairperson

P.O. Box 717 Costanoan Linden, CA, 95236 Northern Valley Phone: (209) 887 - 3415 Yokut

canutes@verizon.net

Southern Sierra Miwuk Nation

William Leonard, Chairperson

P.O. Box 186 Mariposa, CA, 95338 Phone: (209) 628 - 8603 Miwok

Northern Valley

Yokut Paiute

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resource Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Beltran Solar Energy Center (Dudek # 12603), Stanislaus County.

PROJ-2020-005179

Appendix F

Paleontological Resources Technical Memorandum

MEMORANDUM

To: Patti Murphy and Dexter Liu - Crow Creek Solar, LLC

From: Sarah Siren, Senior Paleontologist

Subject: Paleontological Resources Review - Paulsell Solar Energy Center Project

Date: April 15, 2021

Attachment(s): Figure 1 Geological Map

Attachment A Paleontological Records Search Results (Confidential)

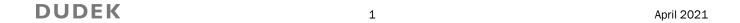
Dudek is providing this memorandum after completing a review of the potential for impacts to paleontological resources during construction of the Paulsell Solar Energy Center ("Paulsell Project") located in the County of Stanislaus ("County"), California.

Project Description

Crow Creek Solar, LLC ("Crow Creek Solar") proposes to amend the existing conditional use permit ("CUP") for the Scatec Westside Solar Ranch ("Approved Project"), approved by Stanislaus County ("County") in November 2010 and supported by an adopted mitigated negative declaration ("MND") through a County Staff Approval Permit. The proposed Paulsell Project is designed to generate up to 20 megawatts of electricity on 232 acres and would require support facilities consisting of access roads, fencing, medium-voltage stations, a project collector substation, a battery energy storage system ("BESS"), an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, operations and maintenance ("O&M") building, supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment.

The Paulsell Project would be located on a site covered by an existing MND titled Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration ("2010 MND"). The CUP for the Approved Project (No. 2010-09) allows for the construction, operation, and decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre site, which was part of the original Scatec Westside Solar Ranch CUP ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project Site would be located within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND.

The Paulsell Project includes a solar energy facility similar to the Approved Project. The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres, as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed.. This increase will be contained entirely within the area previously analyzed and approved for



the Original Project Site in the 2010 MND. The Paulsell Project also proposes the potential development of additional support facilities, as described above. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the CUP and 2010 MND.

Paleontological Resources Assessment

The Paulsell Project Site of the Approved Project is a current agricultural use consisting of walnut and almond trees. The Paulsell Project Site is underlain by the geological units Holocene age younger Quaternary alluvium (map unit Qa; less than ~11,700 years ago), older Quaternary alluvium (map unit Qoa; late Pleistocene age, ~11,700 to 129,000 to years ago), and the Tulare Formation (map unit QTu; Pleistocene age; ~1.5 to 2.2 million years ago) as shown in Figure 1 (Dibblee and Minch 2007a, 2007b; Sowers et al., 1993; Cohen et al., 2020). The late Miocene age Neroly Formation (map unit Tn; ~5.3 to 11.6 Ma), although not mapped within the Paulsell Project Site, may be encountered at an unknown depth.

Dudek requested a paleontological records search from the Natural History Museum of Los Angeles County (LACM) on July 27, 2020, and the results were received on August 5, 2020. No paleontological resources are documented within the Paulsell Project Site (LACM 2020) (Confidential Appendix A). However, fossil localities in the region surrounding the Paulsell Project Site have produced paleontological resources in similar deposits as those mapped within the Paulsell Project Site.

Holocene age younger Quaternary alluvium blanketing the majority of the Project area is too young to produce scientifically significant paleontological resources, and therefore has been assigned low paleontological sensitivity. Excavations into younger alluvium or into previously disturbed sedimentary deposits (e.g., artificial fill) would not result in significant impacts to paleontological resources.

Pleistocene age older Quaternary alluvium may be encountered at depth below surface exposures of Holocene age alluvium. Similarly-aged older Quaternary alluvial deposits have produced "Ice Age" megafaunal remains elsewhere in California (Jefferson 2012a, 2012b). Pleistocene age older Quaternary alluvium has been assigned moderate to high paleontological sensitivity. These deposits are mapped at the surface along the western boundary and the west-central portion of the Paulsell Project Site, as shown on Figure 1.

The northwestern-most extent of the project area is underlain by the Pleistocene age Tulare Formation. The Tulare Formation consists of alluvial clay, which is gray, massive, and soft, possibly indicating a lacustrine (lake-derived) source. The formation also includes minor sand and pebble conglomerate (Dibblee and Minch, 2007a). According to the LACM, fossil localities from the Tulare Formation are located south-southeast of the proposed project area, within Fresno and San Benito Counties. A specimen of fossil horse, *Equus*, was recovered from LACM 3506 in the Panoche Valley, western Fresno County (LACM, 2018) (Confidential Appendix A). Further south in San Benito County, LACM 3505 yielded fossil specimens of horse, camel, and bear (LACM, 2018; LACM, 2020) (Confidential Appendix A). Locality LACM 5914, located south of Skyline Road, yielded fossil remains of eared-seal (Otariidae), in addition to oysters and other mollusks (LACM, 2020) (Confidential Appendix A). The Tulare Formation has been assigned high paleontological sensitivity.

Proposed activities for the Paulsell Project include ground disturbance related to construction excavation. Although the excavation depths are unknown, it is understood that at least some excavation into native (e.g., previously undisturbed) formational material will occur.

The Paulsell Project is subject to all applicable regulations regarding paleontological resources. The following section provides a summary of these regulations, policies, and guidelines relating to the proper management of paleontological resources for the Paulsell Project.

The Stanislaus County General Plan (Stanislaus County 2015) describes specific policies to reduce impacts to paleontological resources:

General Plan Chapter 3: Conservation/Open Space Element, Goal 8. Preserve areas of national, state, regional, and local historical importance.

Policy 24: The County will support the preservation of Stanislaus County's cultural legacy of archaeological, historical, and paleontological resources for future generations.

Implementation Measure 5: The County shall utilize the California Environmental Quality Act (CEQA) process to protect archaeological, historic, or paleontological resources. Most discretionary projects require review for compliance with CEQA.

A paleontological resources Worker Environmental Awareness Program ("WEAP") training would be implemented as part of the Paulsell Project prior to excavation within moderate to high paleontological sensitivity geological units (e.g., older Quaternary alluvium, Tulare Formation, and the Neroly Formation, if encountered). If fossils are inadvertently discovered during construction, the fossils should be roped off until they can be evaluated by a qualified paleontological resources specialist for appropriate treatment, as required per the WEAP training.

If you have any questions regarding this memo, please feel free to contact me at 760.846.9326 or ssiren@dudek.com.

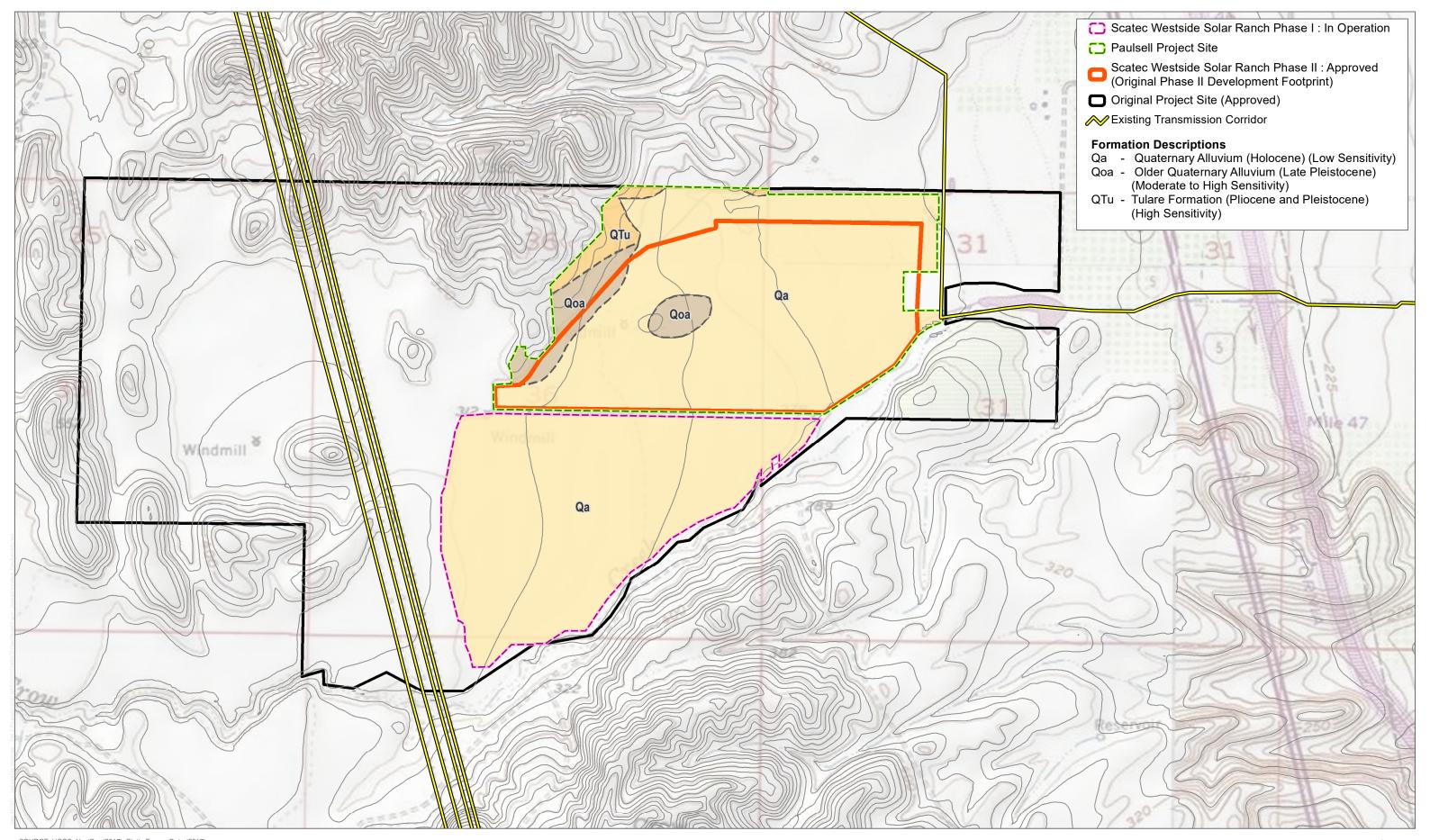
Sincerely,

Sarah A. Siren

Senior Paleontologist, Dudek

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- Natural History Museum of Los Angeles County (LACM), 2018. Vertebrate Paleontology Record Check for Paleontological Resources for the Proposed Proxima Solar Project, Dudek Project # 10257, South of Patterson, Stanislaus County, Project Area. Unpublished Records Search Results Letter from S. McLeod, Natural History Museum of Los Angeles County, California.
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SOURCE: USGS; NextEra (2017), Platts Energy Data (2017)

DUDEK 6 0 500 1,000 Feet

Attachment A

Paleontological Records Search Results (Confidential)

Appendix G1

Hazardous Materials Assessment

605 THIRD STREET ENCINITAS, CALIFORNIA 92024 T 760.942.5147 F 760.632.0164

MEMORANDUM

To: Patti Murphy and Dexter Liu – Crow Creek Solar, LLC From: Audrey Herschberger, Divya Khandelwal, Dudek

Subject: Hazardous Materials Assessment for Paulsell Solar Energy Center Project

Date: April 15, 2021

This hazardous materials assessment was conducted for the Paulsell Solar Energy Center in Stanislaus County, California ("Paulsell Project Site"). The Paulsell Project Site is located approximately 6 miles south of the City of Patterson, west of Interstate (I-) 5, and southwest of National Aeronautics and Space Administration (NASA) Crows Landing Airport and Test Facility in Newman, California. The Paulsell Project Site can be accessed via Fink Road and then Davis Road, off I-5. The Paulsell Project Site is approximately 232 acres and consists of portions of assessor's parcel numbers (APNs) 025-017-019 and 027-017-090.

The majority of the Paulsell Project Site is currently developed as orchards. A small portion of the Paulsell Project Site along the western border (west of the irrigation canal) is undeveloped land. The Pacific Gas and Electric (PG&E) Company Crow Creek Switching Station is located adjacent to the Paulsell Project Site to the east. The Paulsell Project Site is bordered by a large solar energy facility (Scatec Westside Solar Ranch) to the southwest, orchards to the north, agricultural land (row crops) to the southeast, and undeveloped land to the west and northwest. Crows Creek flows east-southwest adjacent to the southeastern border of the Paulsell Project Site.

As discussed in the 2018 Phase I ESA conducted on the Beltran Solar Energy Center (Dudek 2018), which included the Paulsell Project Site, two groundwater supply wells were observed on the Paulsell Project Site during the site reconnaissance. Dudek conducted a search for oil and gas wells located within the Paulsell Project Site (CalGEM 2021). One plugged dry hole well was identified near the western edge of the Paulsell Project Site, which was abandoned in 1937.

Historical Site Use

A review of historical aerial photographs available between 1953 and 2016 (NETR 2021) shows portions of the Paulsell Project Site have been used as orchards since at least 1953. Current aerial imagery (Google 2021) shows portions of the Paulsell Project Site are still used as orchards. Areas not cultivated have been undeveloped since at least 1953.

Online Regulatory Databases

Government Code Section 65962.5 requires the California Environmental Protection Agency (CalEPA) to compile a list of hazardous waste and substances sites (Cortese List). While the Cortese List is no longer maintained as a single list, the following databases provide information that meet the Cortese List requirements:

1. List of Hazardous Waste and Substances sites from Department of Toxic Substances Control Envirostor database (Health and Safety Codes 25220, 25242, 25356, and 116395);

- 2. List of LUST Sites by County and Fiscal Year from the State Water Resources Control Board GeoTracker database (Health and Safety Code 25295);
- 3. List of solid waste disposal sites identified by the State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273[e] and 14 CCR Section 18051);
- 4. List of "active" Cease and Desist Orders and Cleanup and Abatement Orders from the State Water Resources Control Board (Water Code Sections 13301 and 13304); and
- 5. List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by the Department of Toxic Substances Control.

Dudek conducted a search of these databases that provide information on Cortese List sites. The Paulsell Project Site was not identified in the any of these Cortese List databases.

In addition to Cortese list sites, EnviroStor and GeoTracker provide environmental information on release and cleanup cases in the State of California. While these databases are not included in the Cortese List, they may provide additional information regarding potential environmental contamination on the Paulsell Project Site. Dudek reviewed each of these databases for hazardous material sites on the Paulsell Project Site. No sites were identified on the Paulsell Project Site. One site was identified north of the Paulsell Project Site, Fink Road Landfill, which is a solid waste disposal site. As discussed in the 2018 Phase I ESA, there is a potential that trace VOC contamination at Fink Road Landfill has impacted the groundwater beneath the landfill (Dudek 2018). The most recent groundwater monitoring report (SCS 2020) confirmed trace concentrations of VOCs in groundwater, therefore this potential impact still exists. While it is unlikely, there is a possibility that this trace VOC contamination may have impacted water supply wells on the Paulsell Project Site.

Dudek consulted the National Pipeline Mapping System online database (NPMS 2021). The NPMS provides a public map viewer application that displays data related to gas transmission and hazardous liquid pipelines, liquefied natural gas plants, and breakout tanks under Department of Transportation Pipeline and Hazardous Material Safety Administration jurisdiction. One active crude oil pipeline was identified bordering the Paulsell Project Site to the east, operated by Phillips 66 Pipeline LLC. This pipeline was also identified in the Phase I ESA (Dudek 2018).

Potential Impacts

- Portions of the Paulsell Project Site have been used as agricultural land with orchards and row crops since at least the 1950s. As discussed in the Phase I ESA (Dudek 2018), there is a potential for elevated concentrations of pesticide- and herbicide-related compounds in surface soils. Because pesticides break down over time, it is unlikely that residual pesticide levels would be above risk-based criteria for the proposed land use of the Paulsell Project Site (commercial). Metals do not break down and may remain at elevated levels; however, given the proposed commercial land use, it is not expected that metals would be above risked-based criteria.
- Trace VOCs may be present in groundwater beneath the Paulsell Project Site, due to the proximity of the Fink Road Landfill. This may impact existing groundwater supply wells.

 Construction activity in the vicinity of oil wells, oil pipelines, or water supply wells located within the Paulsell Project Site may require setbacks, protections, or decommissioning of the nearby well. Construction should be conducted in accordance with applicable local, state, and federal laws, rules, and regulations.

Audrey Herschberger, PE

Project Engineer

aherschberger@dudek.com

Glenna McMahon, PE

Principal Engineer

gmcmahon@dudek.com

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Appendix G2

Phase I Environmental Site Assessment

Phase I Environmental Site Assessment Beltran Ranch APNs 025-017-019, 026-012-003, 027-017-063, -080, -082, -090, and -091 Stanislaus County, California

Prepared for:

NextEra Energy Resources

700 Universe Boulevard Juno Beach, Florida 33408

Prepared by:

DUDEK Corporate Office: 605 Third Street Encinitas, California 92024

Glenna McMahon, P.E.

Project Manager

Audrey Herschberger, P.E. Environmental Engineer

NOVEMBER 2018

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ACRONYMS

Acronym	Definition
μg/L	micrograms per liter
APN	Assessor's Parcel Number
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
bgs	below ground surface
CalEPA	California Environmental Protection Agency
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CUPA	Certified Unified Public Agency
EDR	Environmental Data Resources
ESA	Environmental Site Assessment
-	Interstate
PCB	polychlorinated biphenyl
NASA	National Aeronautics and Space Administration
pCi/L	pico curies per liter
PG&E	Pacific Gas and Electric
REC	recognized environmental condition
USACE	U.S. Army Corps of Engineers
UST	underground storage tank
VOC	volatile organic compound



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1 EXECUTIVE SUMMARY

A Phase I Environmental Site Assessment (ESA) was conducted for Beltran Ranch located on Assessor's Parcel Numbers (APNs) 025-017-019, 026-012-003, 027-017-063, 027-017-080, 027-017-082, 027-017-090, and 027-017-091 in Stanislaus County, California (subject property). The subject property is 1,712 acres and is located approximately 6 miles south of the city of Patterson, west of Interstate 5, and southwest of NASA Crows Landing Airport and Test Facility in Newman, Stanislaus County, California (Figure 1).

The findings of this investigation are based on historical sources, information contained in regulatory agency databases, available local environmental health agency records, interviews with site representatives, and a site reconnaissance.

Information gathered for this report indicated the following:

- The subject property and surrounding areas have been a mix of agricultural and undeveloped land since at least 1916. As with any agricultural property, there is a potential for pesticide residues, including chlorinated compounds and metals, to remain in soil. Because pesticides break down over time, it is unlikely that residual pesticide levels would be above risk-based criteria for the proposed land use (commercial). Metals do not break down and may remain at elevated levels; however, given the proposed commercial land use, it is not expected that metals would be above risked-based criteria.
- Four groundwater supply wells were observed during the site reconnaissance, three of which were on the subject property (Figure 2). Four groundwater monitoring wells were observed during the site reconnaissance (Figure 2).
- A series of high-voltage transmission lines cross the subject property running –north-south.
- Several ASTs were observed or reported on the subject property, including a stationary fuel AST at the foreman office, an empty diesel AST at the horse stables, and several portable ASTs located throughout the subject property, including the Pacific Gas and Electric (PG&E) substation. Stationary water tanks were also observed in multiple locations, including at the solar energy facility and accompanying covered well and pump facilities.
- Based on the age of structures (pre-1970) on the subject property, lead-based paint and asbestos-containing building materials may be present.
- Mr. Beltran, subject property owner, indicated that there is a transformer or capacitor on the subject property that may contain polychlorinated biphenyl (PCBs). As the presence of this transformer or capacitor was not confirmed, this represents a data gap.

- Debris was observed in multiple locations on the subject property, typical of materials observed on farming operations. It is unlikely the debris has impacted the environmental conditions on the subject property.
- Two crude oil pipelines cross the subject property (Figure 2). There are no releases, incidents, or accidents reported within 1 mile of the subject property.
- Other adjacent and nearby properties are agricultural, including grain crops, rangeland, and orchards (except Fink Road Landfill to the north). It is unlikely that these adjacent or nearby properties have impacted the environmental conditions at the subject property (except Fink Road Landfill).

This assessment revealed evidence of the following recognized environmental conditions (RECs) in connection with the subject property.

• A recent groundwater study conducted at the Fink Road Landfill identified trace concentrations of volatile organic compounds (VOCs) in the groundwater. The exact source of the contamination was not determined. Bromodichloromethane was detected at 0.34 micrograms per Liter (μg/L) in two monitoring wells located 825 feet (MW30) and 265 feet (MW32) north of the subject property. The RSL (DTSC 2018) for bromodichloromethane in tap water is 0.12 μg/L. At least three groundwater supply wells are located on the subject property (at least four wells service the farm); it is unknown if the wells are used for drinking water. Based on the proximity of the monitoring wells to the subject property, and the cross-gradient groundwater flow direction, there is a potential for trace VOCs to be present in groundwater beneath the northern corner of the subject property above applicable regulatory concentrations. This condition creates a potential REC to the subject property.

Dudek has the following recommendations:

- Dudek recommends a survey of lead-based paint and asbestos prior to demolition of any subject property structures.
- Dudek recommends that electrical transformers on the site be visually surveyed to determine the presence or absence of PCBs. Should PCBs be present, the integrity of the transformer should be evaluated. If necessary, PCB-containing transformers should be removed and replaced in accordance with applicable laws and regulations.
- Dudek recommends that any water supply wells on the subject property that are not intended for use be decommissioned in accordance with state and local regulations.

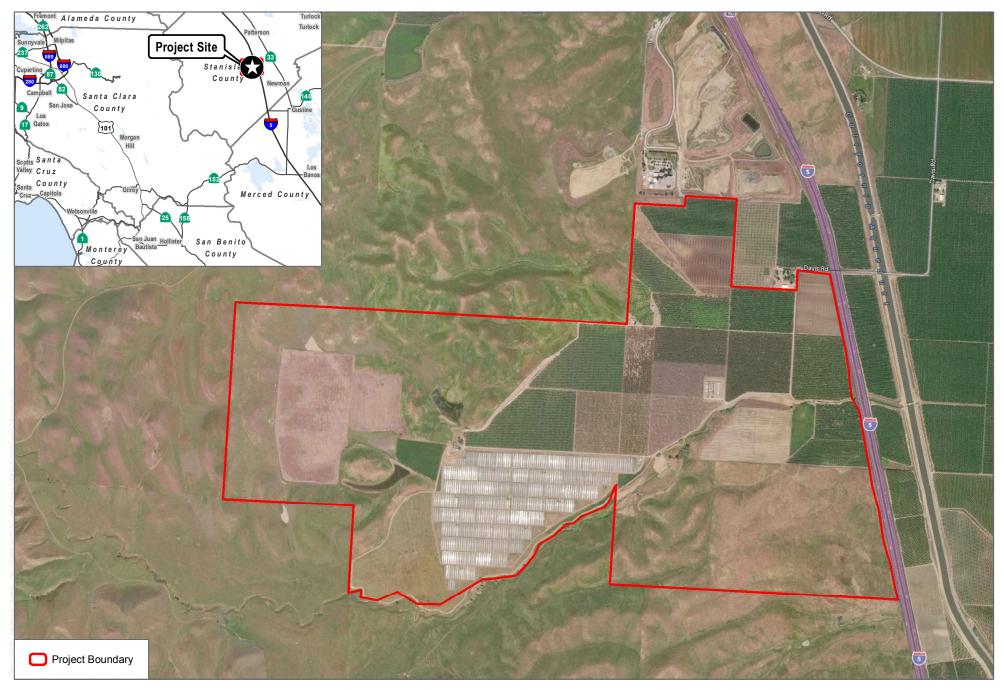
• Dudek recommends testing the water from on-site supply wells for VOCs prior to using the water for beneficial uses, such as drinking water.

Dudek performed this Phase I ESA of the subject property in conformance with the scope and limitations of ASTM Practice E1527-13. This report summarizes the research and findings of the Phase I ESA.



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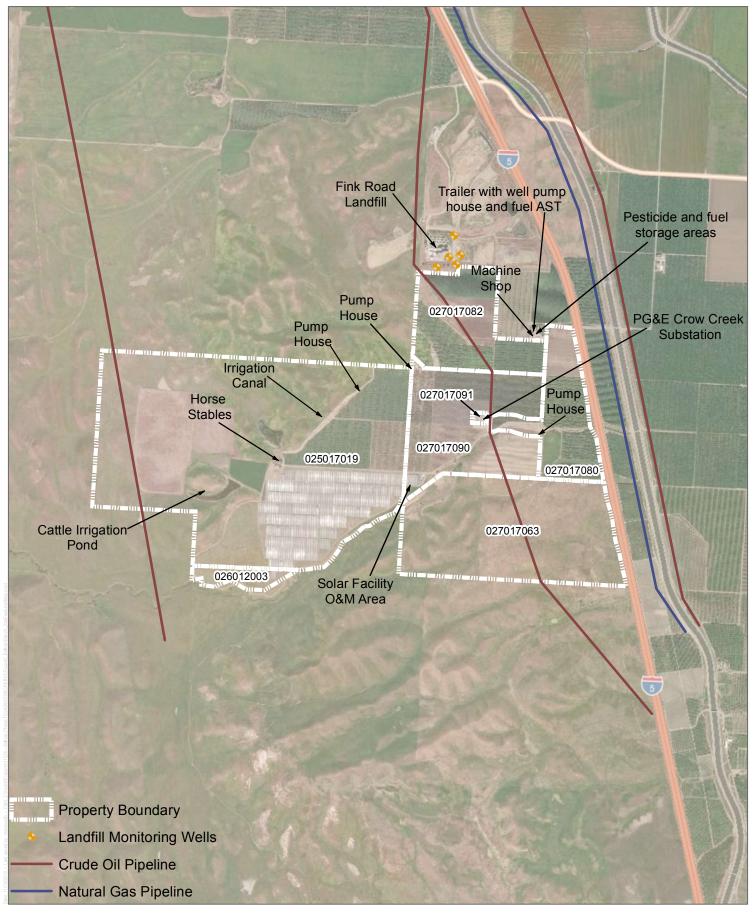
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FIGURE 1
Project Location Map
Beltran Ranch Phase I ESA

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SOURCE: ESRI World Imagery

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2 INTRODUCTION

This Phase I ESA was performed according to the guidelines stipulated in the American Society for Testing and Materials (ASTM) Standard E1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process." This Phase I ESA was conducted as part of environmental due diligence for the construction of a solar facility on the subject property.

2.1 Assessment Procedure and Scope of Investigation

Phase I ESAs assist in identifying past and present land use, including identification of possible releases or disposal of manufacturing or other wastes if such information is contained within regulatory reports or files, and/or is currently visible on site. The assessment reviews local, county, state, and U.S. Environmental Protection Agency lists of known or potentially hazardous waste sites, landfills, and sites currently under investigation for environmental violations that may be of concern to a site.

The scope of this environmental investigation consisted of (1) a reconnaissance of the subject property; (2) a search of regulatory agency records; (3) review of available historical aerial photographs, topographic maps, Sanborn fire insurance maps, City Directory listings, and building department records; (4) an environmental lien search; (5) interview of a representative of the property owner; and (6) preparation of this Phase I ESA report detailing the findings of the investigation.

These activities were conducted to identify RECs. The term "recognized environmental condition" means the presence or likely presence of any hazardous substances or petroleum products on the subject property under conditions that indicate an existing release, a past release, or a material threat of a release into the ground, groundwater, or surface water.

The term "controlled recognized environmental condition" (controlled REC) is an environmental condition that would have been considered a REC in the past, but which has been remediated and received risk-based closure by a regulatory agency (i.e., no further action letter) where residual contamination remains in place. Furthermore, controlled REC is used if the property is subject to a control or use restriction (i.e., property use restrictions, activity and use limitations, institutional controls, or engineering controls) due to residual on-site contamination.

The term "historical recognized environmental condition" (historical REC) is an environmental condition that would have been considered a REC in the past, but which has been remediated and received unrestricted residential use closure by the regulatory agency. Therefore, no controls or use restrictions have been applied to the property.

The term "recognized environmental condition" is not intended to include *de minimis* conditions. *De minimis* conditions are conditions that generally do not present a material risk of harm to public health or the environment and would not be the subject of an enforcement action if brought to the attention of governmental agencies.

2.2 Qualifications of Environmental Professionals

This Phase I ESA was prepared by Audrey Herschberger, environmental engineer, Dylan Duverge, hydrogeologist, and Glenna McMahon, environmental engineer. Qualifications for Ms. Herschberger, Mr. Duverge, and Ms. McMahon are presented in Appendix A.

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in Section 312.10 of 40 Code of Federal Regulations (CFR) 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquires in conformance with the standards and practices set forth in 40 CFR Part 312.

3 SITE LOCATION

The subject property consists of approximately 1,712 acres of land located west of Interstate (I-) 5, south of Patterson, south of the Fink Road Landfill, and north-northwest of Newman, in Stanislaus County, California (Figure 1). The subject property is comprised of APNs 025-017-019, 026-012-003, 027-017-063, 027-017-080, 027-017-082, 027-017-090, and 027-017-091. Portions of the subject property are currently developed as almond orchards and walnut orchards. APN 027-017-091 is a switching station owned by PG&E. Other portions of the subject property include a large solar energy facility, cow pasture, horse pasture, and undeveloped land. The subject property is bordered by the Fink Road Landfill and Coventra waste-to-energy facility, Beltran Farms orchards, and cropland to the north, I-5 to the east, and undeveloped land to the northwest, west, and south.

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4 ENVIRONMENTAL SETTING

The subject property is located in the eastern foothills of the Diablo Mountain Range. According to topographic maps, Crow Creek runs through the southeastern portion of the subject property, then borders the subject property to the south. The majority of the subject property lies within a small valley between foothills to the north and south.

General topographic information for the subject property and the surrounding area was obtained from a review of topographic maps, from the Environmental Data Resources (EDR) report (Appendix B), and from a site visit. The topography of the subject property is characterized by an overall slope to the east with scattered hills rising up around the northern and southern edges. The subject property elevation ranges from approximately 245 feet above mean sea level (amsl) near the eastern edge to approximately 409 feet amsl at the foothills on the western side.

No subsurface geologic investigations were performed as part of this Phase I ESA. According to the U.S. Department of Agriculture Natural Resources Conservation Service Soil Survey of Stanislaus County, California, Western Part (USDA 2002), the subject property is mapped as underlain by clayey soils of the Damluis Association, and the Carbona-Calla Association. Damuis soils are very deep, nearly level to rolling well-drained soils. Carbona-Calla soils are very deep, undulating to steep, well-drained soils.

Based on sources searched by EDR, no public water supply wells were mapped within 1 mile of the subject property. The EDR Well Report listed two water wells on the subject property. Depth to water, when reported, was at 44 feet below ground surface (bgs). An additional 10 water wells were listed within 1 mile of the subject property. Depths to water, when reported, ranged from 6 to 38 feet bgs.

The California Division of Oil, Gas, and Geothermal Resources online database, which has information for known oil and gas wells in the state, was reviewed for wells on/near the subject property (DOGGR 2018). According to this database there are two dry oil and gas wells located on the subject property. One, located near the northern/center of the subject property, was drilled in 1923 and never used. The other, located near the western edge of the subject property, was drilled in 1931 and abandoned in 1937. Four additional oil wells were identified by the EDR Well Report; two are located on the subject property (as noted on DOGGR website information, above), one located less than 0.25 miles north, and one located almost 0.5 miles south. The nearby wells are also dry; the northern well drilled and abandoned in 1937, the southern well drilled in 1954 and abandoned in 1956.



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5 INTERVIEWS

5.1 Site Representative Interview

John E. Beltran, site owner, completed the Property Background Information Questionnaire included in Appendix C, and summarized below.

Mr. Beltran stated that:

- The property or adjoining properties have been used for an industrial landfill.
- Paint, chemicals, and pesticides have been stored on the subject property in containers greater than 5 gallons.
- Hazardous substances or petroleum products have been stored on or transferred across the subject property in pipelines.
- 55-gallon drums or sacks of chemicals have been stored on the subject property.
- There are pits, ponds and/or lagoons on the subject property.
- Aboveground or underground tanks exist, or have existed, on the subject property.
- The subject property is serviced by a private well or non-public water source.
- There is a transformer or capacitor that may contain PCBs on the subject property.
- Pesticides, herbicides, and insecticides have been applied on the subject property.

Mr. Beltran was unaware of any environmental assessment reports, compliance audits, permits, or other documents associated with the subject property. Mr. Beltran was unaware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products associated with the subject property. Mr. Beltran was unaware of any activity or land use limitations, or environmental liens. Mr. Beltran believes that the price being paid for the subject property reasonably reflects the fair market value.

5.2 User-Provided Information

In accordance with ASTM Standard E 1527-13, to qualify for one of the *Landowner Liability Protections* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the user must provide the following information (if available) to the environmental professional. Dudek sent the following questions to the user of this report, NextEra. The following responses were received via email from Joseph Matteo, Project Director – Renewable Development of NextEra on November 8, 2018:

1. **Question:** Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law?

Response: We are not aware of any environmental cleanup liens.

2. **Question:** Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

Response: We are unaware of any such activity and/or land use limitations.

3. **Question:** As the user of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Response: We have no specialized knowledge of the chemicals and processes used by the current occupant in his line of business, which includes dry crops, grazing land, and almond and walnut farming

4. **Question:** Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Response: We believe the purchase price being paid for this property is at or above the fair market value of the property.

5. **Question:** Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user, a) Do you know the past uses of the property, b) do you know of specific chemicals that are present or once were present at the property, c) do you know of spills or other chemical releases that have taken place at the property, d) or do you know of any environmental cleanups that have taken place at the property?

Response: a) Yes, formerly dry crops, grazing land, and nut tree farming. b) We are unaware of any specific chemicals present or that have been present. c) We are unaware of any spills or other chemical releases. d) We are unaware of any environmental cleanups that have taken place.

6. **Question:** As the user of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Response: Based on our knowledge, there no obvious indicators that point to the presence or likely presence of contamination on the property.

5.3 Local Agency Records

5.3.1 Stanislaus County Environmental Resources Department

Dudek contacted the Stanislaus County Environmental Resources Department, which acts as the county's Certified Unified Program Agency (CUPA), to obtain information about potential spills, tanks, or chemical use that may have impacted the environmental conditions on the subject property. CUPA responded on November 14, 2018, stating that they do not have files for the subject property. They did provide files for APN 027-017-083, which is the farm property adjoining to the north, also owned by Beltran Farms. This site has hazardous materials inventory, including diesel fuel, gasoline, hydraulic oil, motor oil, pesticides, and waste oil. Materials are stored in aboveground containers near the main office north of the subject property. A detailed list of pesticides was also provided (see Appendix D). Multiple inspections were completed by Stanislaus County, none of which resulted in violations. This material storage does not appear to be a REC to the subject property.

5.3.2 Stanislaus County Building and Planning

Dudek searched the Stanislaus County Citizen Portlet to obtain records of building and planning permits that may have been issued for subject property (County 2018a).

5.3.2.1 Building Permits

Seven building permits were associated with APN 025-017-019, from 2013 to 2016. Permits included modifications to the electrical service, ground mounting of a photovoltaic system, address revision for the PG&E Solar Farm, construction of transmission lines for the solar site, and construction of a new substation for the solar site. The construction permits were identified as "issued", but not "finalized." One permit was associated with APN 027-017-090 (under APN 027-017-077). The permit was for an electrical service addition. There were no permits identified for the remaining APNs.

5.3.2.2 Planning Permits

Planning permits associated with the Scatec Westside Solar Project were identified for APNs 025-017-019, 026-012-003, and 027-017-090. Planning permits associated with the Beltran Ranch Solar Facility were identified for all APNs associated with the subject property. A rezoning permit was also issued to 027-017-090 and 027-017-091 for the Beltran Agriculture Technology Center, changing the zoning from agricultural to Planned Development (PD). It appears this also divided APN 027-017-077 into the two current APNs, -090 and -091. This permit was issued in 2012.

5.3.2.3 **Zoning**

The subject property is zoned general agricultural. Land use for each parcel is as follows:

• 025-017-019: Mixed growing improvements

• 026-012-003: Irrigated open land

• 027-017-063: Dry open land

• 027-017-080 and -082: Almond orchard

• 027-017-090 and -091: Walnut orchard

5.3.3 Stanislaus County Department of Agriculture & Weights and Measures

Dudek contacted the Stanislaus County Department of Agriculture & Weights and Measures to obtain records of restricted materials, amounts, and dates that may have been applied to the subject property. Dudek received a response on November 19, 2018. The county held over 3,000 pesticide, fungicide, and herbicide use records for the subject property from 2010 to present. None of the products applied require school notifications, and were either applied by the grower or by a third party contractor. Dudek requested information regarding violations or administrative actions associated with the subject property. As of the date of this report, no response was received.

5.3.4 State Water Resources Control Board

Dudek searched GeoTracker, the Water Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. Records include sites that require cleanup, various unregulated projects, and permitted facilities (GeoTracker 2018).

The subject property was not identified on the GeoTracker database. One site was identified within a 1 mile radius of the subject property. The Fink Road Landfill was identified, located adjoining the subject property to the north (4000 Fink Road, Crows Landing). This is an open and permitted

municipal solid waste landfill, in operation since 1965, and owned and operated by Stanislaus County. There is also a waste-to-energy plant on the landfill site (Covanta). The ash from the waste-to-energy plant is also disposed of in the landfill.

A recent groundwater study identified trace concentrations of VOCs in the groundwater in the vicinity of Covanta, which is located at the southwest corner of the site (SCS 2018). According to the SCS report, depth to first groundwater is approximately 20 to 85 feet bgs. Groundwater flow direction on the southern portion of the landfill, in proximity to the subject property is eastward, cross-gradient to the subject property (County 2018b). The second quarter 2018 monitoring event confirmed trace concentrations of VOCs in the same area (County 2018b). The source of groundwater contamination had not been determined. The closest monitoring well with recent trace concentrations of VOCs in groundwater is located immediately adjacent to the northern corner of the subject property (Figure 2). The other wells with recent trace concentrations of VOCs in groundwater are located less than 850 feet north of the subject property. The trace concentrations identified in wells near the subject property are at least one order of magnitude below the applicable Tier 1 Environmental Screening Levels (ESLs; RWQCB 2016) and/or DTSC-Recommended Screening Levels (RSLs) for Tap Water (DTSC 2018), with the exception of bromodichloromethane. Bromodichloromethane was detected in two monitoring wells located 825 (MW30) and 265 feet (MW32) north of the subject property at 0.34 µg/L, and the RSL for tap water is 0.12 µg/L. There are at least three water wells on the subject property (at least four wells service the farm). According to the property owner, the site is serviced by a private water well (Property Background Information Questionnaire, Appendix C). Based on the proximity of the monitoring wells to the subject property, and the cross-gradient groundwater flow direction, there is a potential for trace VOCs to be present in groundwater beneath the northern corner of the subject property above applicable regulatory concentrations. This condition creates a potential REC to the subject property.

5.3.5 Department of Toxic Substances Control

Dudek searched EnviroStor, the Department of Toxic Substances Control (DTSC) data management system for tracking cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known contamination (EnviroStor 2018).

The subject property was not identified in the DTSC database. No sites within a 1 mile radius were identified in the DTSC database.

5.3.6 CalRecycle SWIS

Dudek searched the CalRecycle Solid Waste Information System (SWIS) online database, which contains information on solid waste facilities, operations and disposal sites throughout the State of California (SWIS 2018).

The subject property was not identified in the SWIS database. Covanta Stanislaus, Inc. (Covanta) and Fink Road Landfill were identified adjoining the subject property to the north. Convanta is permitted as a large volume transfer and processing facility that receives mixed municipal waste. No records of enforcement actions were identified, and inspections from 2010 to 2018 did not identify any violations or areas of concern. Fink Road Landfill is permitted as a Solid Waste Landfill that receives agricultural waste, asbestos, ash, construction/demolition debris, contaminated soil, dead animals, industrial waste, inert waste, mixed municipal waste, other designated wastes, biosolid sludge, tires, and wood waste. From 2010 to 2018, inspections at the Fink Road Landfill identified 10 "areas of concern" were identified and five violations were received. Violations included litter control, daily cover, site maintenance, and erosion control. No enforcement actions were documented.

Additional information regarding the Fink Road Landfill is discussed in Section 5.3.4.

5.3.7 National Pipeline Mapping System

Dudek consulted the National Pipeline Mapping System online database (NPMS 2018). The NPMS provides a public map viewer application that displays data related to gas transmission and hazardous liquid pipelines, liquefied natural gas plants, and breakout tanks under Department of Transportation Pipeline and Hazardous Material Safety Administration jurisdiction.

Two active crude oil pipelines were identified transecting north-south through the subject property. One pipeline, operated by Phillips 66 Pipeline LLC, transects APNs 027-017-082, 027-017-090, and 026-012-063 (Figure 2). The second pipeline, operated by Shell Pipeline Co., LP, transects north-south through APN 025-017-019. A third crude oil pipeline and a natural gas transmission pipeline were identified approximately 0.15 miles east of the subject property, running parallel to I-5 on either side of the California Aqueduct.

There are no accidents or incidents identified on, or within 1 mile of, the subject property.

5.3.8 California Environmental Protection Agency

Dudek consulted the California Environmental Protection Agency (CalEPA) Regulated Site Portal, which combines data about environmentally regulated sites and facilities in California. Data

sources for the portal include California Environmental Reporting System, DTSC EnviroStor, SWRCB GeoTracker, State Water Board California Integrated Water Quality System, and the Federal Toxics Release Inventory.

The subject property was not identified in the CalEPA database. Five sites were identified within a 1-mile radius of the subject property.

- The Fink Road Landfill was identified as a land disposal site in GeoTracker (see Section 5.3.4), located adjoining the subject property to the north.
- Davis Road Check #8, located approximately 0.25 miles east of the subject property, was identified for propane storage. Two compliance evaluations, one in 2014 and one in 2018, were completed. No violations or enforcement actions were noted.
- Verizon Wireless Fink, 21702 Davis Road, located approximately 0.57 miles northeast of the subject property, was identified for diesel and electrolyte/sulfuric acid storage. Two compliance evaluations, one in 2013 and one in 2016, were completed. No violations or enforcement actions were noted.
- Beltran Farms, 22061 Davis Road, was identified for storage of diesel, gasoline, pesticides, petroleum hydrocarbons, and waste oil. A compliance evaluation was conducted in 2017. No violations or enforcement actions were noted. Beltran Farms owns the subject property, as well as a parcel to the north and to the east (east of I-5). Hazardous material storage containers were identified during the site reconnaissance, which is discussed in Chapter 6.

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6 SITE RECONNAISSANCE

A site reconnaissance of the subject property was conducted on November 15, 2018, by Dylan Duvergé of Dudek. The site reconnaissance consisted of driving and walking the subject property, recording observations, and taking photographs. Photographs are presented in Appendix E; key photograph locations are shown on Figure 2. Fink Road and Davis Road provides access to the subject property. The subject property consists of hills, plateaus, and sweeping valleys of varying elevations. As a whole, the subject property slopes gently down toward the east.

Mr. Duvergé met with John Beltran, owner of the farm, his nephew Eric (last name unknown), and the farm's foreman, Eddie (last name unknown). The farm consisted of orchards and a leased space for a solar energy facility. The subject property currently consists of almond and walnut orchards; recently plowed fields; a riparian corridor; vacant, undeveloped land used for cattle and horse grazing; and a large-scale solar installation. Irrigation for the orchards appear to be supported by both surface water deliveries as well as several groundwater wells powered by PG&E and/or portable generators. Water wells were common throughout the property (at least four were observed during the site visit), along with sub-drains/ditches and surface water irrigation canals. Numerous power pole transformers occurred on the property and each were checked for staining beneath, with no staining observed. Long-range visibility was poor due to major fires in northern California combined with light winds and a temperature inversion that trapped smoke close to the surface.

Main areas of interest are described in the following sections.

6.1 Summary of Observations

Adjacent Land Uses

Farm personnel indicated that the bulk of the pesticides, herbicides, fungicides, adjuvants, and fuels, were stored in two sheds and one covered fueling area (Photographs 1 through 4). These areas are located to the northeast of the subject property boundary, as shown on a site map posted in the main gathering area for the farm (Photograph 5, marked up to show parcel boundaries). Also north of the subject property was the farm's primary residence, guest trailer, vehicle storage sheds, machine/workshop, office, event space (reportedly used as a wedding venue), and several orchards (Photograph 6). Generally, the land use north of the subject property is a Class II/III landfill for nonhazardous municipal solid waste (Fink Road Landfill), east is I-5, and south and west are ranch land

Northern Property Boundary with Fink Landfill

The Fink Landfill bordered the subject property north of the orchards, where several groundwater monitoring wells were observed (Photograph 7), and a tall netted fence marked the boundary between the farm and landfill (Photograph 8). The northwestern property boundary is shown in Photograph 9.

PG&E Switching Station

The PG&E Crow Creek Switching Station was located in the central portion of the subject property and was inaccessible because the entrance gate was locked and no personnel were present (Photograph 10). The switching station consisted of electrical transformers, concrete and gravel pads, and a stormwater detention pit (Photograph 10). The perimeter was surveyed; several ASTs were observed, along with marking for a petroleum pipeline and a fiber optic cable (Photograph 11). Upon visual inspection they appeared empty due to hollow sound that occurred when knocking the tank. Several sacks of copper sulfate were observed to be improperly stored and vulnerable to wind and/or water erosion, though no drainages were observed in the vicinity (Photograph 12).

Solar Energy Facility

The solar energy facility was surveyed primarily by car. The operation and maintenance area was surveyed by foot, including the SCADA system, sub-transformer banks, AST, water tanks, and portable restroom facilities were observed by foot (Photographs 13 and 14).

Horse Stables, Old Farm Outbuildings, and Storage Area

On the west-central portion of the property, immediately northwest of the solar energy facility, was a horse paddock and pond (Photograph 15). The area features a large outdoor storage area containing wooden fence posts, barbed wire, a few tractor tires, an empty water tank, an empty fuel AST, and an abandoned outhouse (Photograph 16).

Farm Foreman Office and Workshop

The farm foreman workshop and office area was surveyed by foot and included a covered pump house (Photograph 17), a dog kennel, two shipping containers, and several drums, vehicles, and a portable generator (Photograph 18). The water well pump house was typical of those on farm, and contained two 500 gallon water storage tanks, along with ancillary piping, water metering, and treatment equipment.



Milking Barn and Storage Area

The milking barn and storage area consisted of several parked farm vehicles, a large storage area for irrigation piping, barbed wire, tractor tires, and spent containers up to 55-gallon drums. A look inside the barn revealed only vintage farm trucks and no storage of hazardous materials.

Farm Well & Pump Houses

At least four well and pump houses were observed during the site reconnaissance, three of which are located on the subject property. The farm's well numbering system suggested there are more. These were covered by canopies and supplied with power by PG&E. Several portable generators were observed throughout the site, as the farm was actively being sprayed with herbicides at the time of the field visit.

Wetlands and Natural Waterways

There were two on-site ponds, a small pond used as drinking water for horses, and a large pond retained by an earthen dam, used as drinking water for cattle. A dry ephemeral drainage ran the southern course of the leased out solar energy field east to I-5. A farm road (Davis Road) intersects this drainage feature, and it appears it may be to encourage forage by livestock.

Surface Water Discharge

Surface water on the subject property would drain eastward, or towards the natural and manmade irrigation waterways on the subject property.

Distressed Vegetation

No unnaturally distressed vegetation was observed on the subject property.

Indications of Solid Debris Storage

Wooden fence posts, barbed wire, a few tractor tires, an empty water tank, and an empty fuel AST were observed near the horse stables (Photograph 16). Irrigation tubing, metal wires, tires, empty buckets, empty drums, empty water tanks, and other miscellaneous debris were observed outside the foreman office (Photograph 21). Empty drums, tires, and spent car batteries stored on concrete pads were observed near the milk barn (Photograph 23). Empty pesticide containers, paint canisters, gopher bait, and seed packets were also observed within a storage structure near the milk barn (Photograph 22).



Chemical Storage or Use

Most of the chemicals used for operation of the subject property (diesel, motor oils, pesticides) were observed on the farmhouse property to the north. However, multiple locations on the subject property also contained chemical storage areas. Drums, portable tanks, and copper sulfate sacks were observed surrounding the PG&E switching station (Photographs 11 and 12). A propane tank and portable liquid storage tank (contents unknown) were observed at the solar energy facility (Photograph 14). An empty diesel tank was observed at the horse stables (Photograph 16). A fuel AST and empty AST were observed at the foreman office (Photograph 18). A portable generator, pesticides, gopher bait, and paint canisters were observed at the milk barn area (Photographs 20 and 22). In addition, pesticides, herbicides, and fungicides are used throughout most of the subject property for agricultural purposes.

Unnaturally Colored Water

No unnaturally discolored pools or flowing water were observed on the subject property.

Groundwater Wells, Cisterns, Cesspools, or Septic Tanks

At least four well and pump houses were observed, although the farm's well numbering system suggested more are present (Photograph 17). Three of these wells were located on the subject property A septic vent pipe was observed at the foreman office area; it was unconfirmed if the septic system was operational since a portable toilet was also present on-site (Photograph 19).

According to the EDR Report, two listed water wells are located on the subject property. One well has a reported depth to water of 44 feet bgs. The second well depth is 1133 feet bgs; water depth is not reported.

Sumps or Ponds

Two ponds are located on the subject property, both used as drinking water, one for horses (Photograph 15) and one for cattle (Photograph 27).

Transformers

Multiple pole-mounted transformers were observed on the subject property; no staining was observed on or near the transformers. Electrical transformers were observed in the PG&E Crow Creek Switching Station; access was not available to observe transformers (Photograph 14).



Abnormal Odor

No abnormal odors were noted on the subject property.

Soil Disturbances

No abnormal soil disturbances were observed on the subject property.

Storage Tanks

No evidence of underground storage tanks (USTs) were observed on the subject property during the site reconnaissance. A septic vent pipe was observed at the foreman office area; it was unconfirmed if the septic system was operational. Several ASTs were observed or reported on the subject property, including a stationary fuel AST at the foreman office, an empty diesel AST at the horse stables, and portable ASTs located throughout the subject property. Stationary water tanks were also observed in multiple locations, including at the solar energy facility.

Pipelines

Based on a review of the National Pipeline Mapping System online database, there are two hazardous liquid pipelines that transect beneath the subject property. Indicator signage was observed near the PG&E switching station (Photograph 11).

Stained Soil

Stained soil observed on the subject property is considered to be *de minimis* (Photograph 23). No discernable odor was observed near the stained areas.

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7 REVIEW OF HISTORICAL AERIAL PHOTOGRAPHS

Dudek reviewed historical aerial photographs obtained from EDR for 1937, 1950, 1954, 1970, 1974, 1982, 1998-1999, 2005, 2009, 2012, and 2016 (Appendix F). Aerial photography from Google Earth's publicly available imagery was reviewed for 2017. The photographs provided background information to assess the possibility of past activities that could present environmental concerns.

The aerial photographs are described Table 1.

Table 1
Aerial Photographs

Date	Description
1937	The subject property appears to be mostly agricultural land. There is evidence of cultivation of crops in multiple areas. Areas that are not cultivated appear to be bare land. A small cluster of buildings is observed in the approximate center of APN 025-017-019. Crow Creek transects west–east across the subject property through APN 027-017-080 and into 027-017-090, before heading southwest–northeast through 027-017-090 and along the southern property boundary. Dirt roads transect through the subject property between cultivated areas. A cluster of buildings is observed north of APN 027-017-082, and appears to be a homestead/farmstead related to the subject property and surrounding cultivated land. The surrounding properties also appear to be agricultural or undeveloped lands. A second group of buildings is located north of the subject property, which also appear to be a farmstead/homestead.
1950	The subject property appears to be mostly agricultural land or undeveloped land. Two windmills are observed on the western half of the subject property. Power lines are now observed transecting north—south through the western half of the subject property (APN 025-017-019).
1954	Four small apparent buildings are observed scattered throughout the site, mostly along the edges of the roads or edges of cultivated areas. No other apparent changes are observed from the 1950 aerial photograph.
1970	A disturbed area is observed along a dirt road in APN 025-017-019, in the center of a cultivated area on the subject property. The small buildings observed in the 1954 aerial photograph are no longer observed. An orchard has been planted on part APN 027-017-080, along the northeastern property boundary. Interstate 5 (I-5) is now observed bordering the subject property to the east, and an aqueduct is observed running parallel to I-5.
1974	No apparent changes are observed to the subject property since the 1970 aerial photograph.
1982	Similarly cultivated areas are observed on the western half of the subject property. A possible water retention area is observed near the southwestern corner of APN 025-017-019, southwest of the homestead/farmstead. A second retention area is observed north of the homestead. The eastern half of the subject property is mostly cultivated, with orchards in the northwest corner, extending northward and eastward onto the adjoining property. APN 027-017-063 remains undeveloped land.
1998-1999	Cultivated areas and water retention areas appear similar to those observed in the 1982 aerial photograph. A grouping of three apparent buildings or structures is observed near the southern border, in or near APN 026-012-003. Orchards cover the northeast portions of the subject property, within APNs 027-017-080 and 027-017-082. The landfill is now observed on the northern adjoining property.

Date	Description
2005	The structures observed in the 1998-1999 aerials appear to be high tension power line structures. Similar structures are also observed to the north, still within the subject property, north of the observed water retention area (1982 aerial). The power lines transect across APN 025-017-019. Evidence of the disturbed area noted in the 1970 aerial photograph is still observed; the area has since been re-cultivated. Orchards are now planted in the northern half of APN 027-017-090, and the eastern half of APN 027-017-063 appears cultivated.
2009	No apparent changes are observed from the 2005 aerial photograph. APN 027-017-063 does not appear recently cultivated.
2012	Orchards continue to extend westward on the subject property. No other apparent changes are observed as compared to the 2009 aerial photograph.
2016	A solar array is observed on the southeast portion of APN 025-017-019. The remaining areas still appear cultivated, with the exception of the western and northern extents of the parcel, which remain undeveloped land. Orchards extend westward, covering APN 027-017-090, 027-017-080, approximately 2/3 of 027-017-082, and the northeastern section of APN 025-017-019, bordering the north side of the solar array. A small substation is observed in APN 027-017-091. Land on the south side of Crow Creek is mainly undeveloped, except for a small orchard along I-5. Two buildings are observed at the southwest corner of APN 027-017-082, with materials/debris located nearby the buildings. The landfill is observed to the north, and a second disturbed area is observed west of the landfill. The land to the south, west, and north of the subject property is generally undeveloped, except for the landfill and adjoining homestead. The land to the east is I-5, the aqueduct, and orchards.



8 REVIEW OF HISTORICAL TOPOGRAPHIC MAPS

Dudek reviewed historical topographic maps from 1916, 1918, 1919, 1941, 1947, 1953, 1955, 1971, 1978, and 2012 (Appendix B). The topographic maps are a historical source that can be used to document the prior use of the subject property and surrounding area.

The topographic maps are described in Table 2.

Table 2
Topographic Maps

D-4-	Description.
Date	Description
1916, 1918, 1919	Two small buildings are denoted on the subject property, one in the northwest corner of APN 027-017-082, and the second in the approximate center of APN 025-017-019. A third building is observed just north of the subject property boundary, along David Road. Davis Road is observed entering the subject property from the north, and transecting along Crow Creek before heading straight west through 025-017-019, then transecting southwestward back toward Crow Creek. It is denoted as an unimproved roadway. The topography is hilly to the west, and relatively flat on the north side of Crow Creek with a downgradient slope towards the east-northeast. Topography south of Crow Creek is hilly, rising to Crow Hill to the south, and gradually losing elevation to the east. The westernmost portion of the subject property is hilly.
1941, 1947	Additional buildings are observed in the previously built upon areas of the subject property.
1953, 1955	Three windmills are observed on the subject property. Transmission lines are observed transecting north–south across the subject property. Davis Road ends at the transmission lines. A quarry is located south of the subject property, to the west of Crow Hill. Additional windmills are observed on properties to the north, south, and west, as well as unimproved roads. Otherwise, the surrounding areas appear mainly undeveloped.
1971	Orchards are observed on the eastern portion of the subject property. I-5 is observed to the east. A pond is observed in the eastern portion of the subject property; Crow Creek flows through the pond, and an apparent irrigation channel exits the pond and flows westward through the subject property. Apparent irrigation channels are also observed transecting the subject property. Additional transmission lines are observed transecting through the western portion of the subject property, adjacent to the original transmission lines. The subject property and surrounding areas appear largely undeveloped.
1978	The majority of the subject property is unmapped. The northern portion shown appears unchanged.
2012	Beltran Farms is depicted to the north. The subject property appears undeveloped, with an irrigation channel transecting through from northeast to southwest. The remaining area also appears undeveloped.

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9 SITE HISTORY

Based on review of the historical aerial photographs and topographic maps, agency records, and the site representative interview, the subject property and surrounding areas have been a mix of agricultural and undeveloped land since at least 1916. There have been structures on the subject property since at least 1916. Beltran Farms purchased the subject property parcels in May 1985.

By 1953, two power transmission lines were installed running northwest-southeast across the subject property. Two more transmission lines were installed by 1971, running adjacent and parallel to the original lines. Manmade irrigation channels were completed by 1971, discharging from Crow Creek to irrigate the subject property.

Historical Sanborn fire insurance maps were requested from EDR. Sanborn maps provide information regarding the historical uses of the subject property and surrounding properties. Sanborn maps typically exist for cities with populations of 2,000 or more; the coverage is dependent on the location of the subject site within the city limits. The Sanborn Map Report lists the subject property as an unmapped property; no additional information was included in the report (Appendix G).

City Directory listings were requested from EDR (Appendix H). No listings matching the subject property were identified. No adjoining properties were identified.

9.1 Review of Title Information/Environmental Liens

An environmental lien search of APNs 025-017-019, 026-012-003, 027-017-063, 027-017-080, 027-017-082, 027-017-090, and 027-017-091 was received from NETR, to satisfy the requirements of the "All Appropriate Inquiries Rule for CERCLA" liability. No environmental liens or activity use limitations were identified for the subject property parcels (Appendix I).

According to the Environmental Lien and AUL Search Report, the subject property parcels are currently owned by Beltran Farms and Fred Beltran, Jr. and Sons.

9.3 Vapor Encroachment

Vapor encroachment was evaluated to determine whether there is a potential for vapors originating from contaminated soil and/or groundwater to occur in the subsurface below the existing and potential future on-site structures.

The EDR Records Search was used to evaluate types of soils, geology, and hydrology as well as listed contaminated sites as identified in Federal, State, and local databases. Information obtained from other sources (historical reports, site reconnaissance, interviews, local regulatory agency



responses), as discussed in this report, were also considered. While there are potential trace VOCs encroaching on the northern corner of the subject property, the nearest building is greater than 0.40 miles from the nearest monitoring well with detected VOC concentrations. Based on the information reviewed, vapor encroachment can be ruled out for the subject property.



10 PUBLIC AGENCY RECORDS SEARCH REVIEW

The regulatory database search gives a listing of sites within up to a 1-mile radius of the subject property ("target property" is the term used by EDR) that are known to be chemical handlers, hazardous waste generators, or have reported releases of hazardous substances or petroleum products. Information in these listings includes the location of the site relative to the subject property, type of potential environmental concern present, and the status of the site. The search performed for this Phase I ESA was conducted in November 2018 by EDR. The database search report is included in Appendix J.

The following sections list the databases that were searched and search distances from the subject property.

The regulatory databases identified in Table 3 were included in this search.

Table 3
Regulatory Database Search

Acronym	Database	Search Distance	Subject Property Listed?	Number of Surrounding Sites Listed
NPL	National Priorities List (including proposed NPL sites)	1 mile	No	0
Delisted NPL	National Priority List Deletions	1 mile	No	0
CERCLIS -SEMS	Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) – Superfund Enterprise Management System	0.5 miles	No	0
CERCLIS NFRAP	CERCLIS No Further Remedial Action Planned	0.5 miles	No	0
CORRACTS	Resource Conservation and Recovery Act (RCRA) Corrective Action	1 mile	No	0
RCRA TSDF	RCRA - Transportation, Storage, and Disposal Facilities	0.5 miles	No	0
RCRA GEN	RCRA registered small or large quantity generators of hazardous waste	0.25 miles	No	0
RCRA-LQG	RCRA Large Quantity Generators	0.25 miles	No	0
RCRA-SQG	RCRA Small Quantity Generators	0.25 miles	Yes	0
RCRA-CESQG	RCRA Conditionally Exempt Small Quantity Generators	0.25 miles	No	0
RCRA NonGen/NLR	RCRA Handlers, but not generators, of hazardous waste	0.25 miles	No	0
ERNS	Emergency Response Notification System	Target Property	No	0
US ENG CONTROLS	Sites with Engineering Controls	0.5 miles	No	0

Table 3
Regulatory Database Search

Acronym	ıym Database		Subject Property Listed?	Number of Surrounding Sites Listed
US INST CONTROLS	Sites with Institutional Controls	0.5 miles	No	0
RESPONSE	State- and Tribal-Equivalent NPL	1 mile	No	0
ENVIROSTOR	State- and Tribal-Equivalent CERCLIS	1 mile	No	0
SWF/LF	State and Tribal Landfill and/or Solid Waste Disposal Site	0.5 miles	No	1
LUST	State Leaking Underground Storage Tank	0.5 miles	No	0
CPS-SLIC	Spills, Leaks, Investigations, and Cleanups	0.5 miles	No	0
Indian LUST	Tribal Leaking Underground Storage Tank	0.5 miles	No	0
UST	State and Tribal Registered Underground Storage Tank	0.25 miles	No	0
AST	State and Tribal Registered Aboveground Storage Tank	0.25 miles	No	0
Indian UST	Registered Underground Storage Tank on Tribal Land	0.25 miles	No	0
FEMA UST	FEMA-owned Registered Storage Tank	0.25 miles	No	0
LUCIS	Institutional Control/Engineering Control	0.5 miles	No	0
Indian VCP	Voluntary Cleanup on Tribal Land	0.5 miles	No	0
VCP	State and Tribal Voluntary Cleanup	0.5 miles	No	0
US Brownfields	State and Tribal Brownfields	0.5 miles	No	0
SWEEPS UST	UST Statewide Environmental Evaluation and Planning System Underground Storage Tank		No	1
HIST UST	Historical Underground Storage Tank	0.25 miles	No	1
HIST CORTESE	Historical Hazardous Waste and Substances List	0.5 miles	No	0
EDR Hist Auto	Historical Gas Stations and Automotive Shops	0.125 miles	No	0
RGA LUST	Recovered Government Archives Leaking Underground Storage Tank	Target Property	No	0
INDIAN RESERVATION	Indian Reservations	1 mile	No	0
Additional Environmental Records		Varies	Yes	2

The subject property was identified in the following databases:

• An air quality system (AQS) monitoring station is located on the subject property, registered under "Davis Rd-Belltran Farm." The AQS stations collect ambient air pollution data for EPA, State, Local, and Tribal air pollution control agencies. This listing does not indicate a REC to the subject property.

• PG&E: Crow Creek Switching Station, 23409 Davis Road, is identified on the EDR report to be northeast of the subject property. However, it is actually located on APN 027-017-091, which is on the subject property. The site has a reported chemical storage facility for hazardous materials used during routine operation. Recent inspections do not indicate violations associated with the chemical storage. This listing does not indicate a REC to the subject Property.

The following sites were identified within the applicable search radii:

- Beltran Farms, 22601 David Road, is located immediately north of the subject property. The site has a reported active 550 gallon UST filled with regular motor vehicle fuel (leaded gasoline). The tank was reportedly installed in 1985. There are no cleanup reports or violations associated with this listing.
- OMS of Stanislaus, 4040 Fink Road, is part of the Fink Road Landfill, located immediately north of the subject property. OMS of Stanislaus (OMS) is listed in the RCRA-SQG, SWF/LF, CHMIRS, ICIS, US AIRS, EMI, and WDS databases. Information obtained online regarding the Fink Road Landfill is in Section 5.3.4. The EDR report identified the following findings:
 - o The site is a permitted Class III landfill for non-hazardous solid waste.
 - Multiple incidences were reported of radioactive waste being transferred to the landfill.
 The wastes were identified in garbage trucks or transfer trailers, and reported.
 - In 2000, up to 4,000 gallons of a sodium hydroxide solution was mistakenly placed in a rain collection ditch. The incident was investigated by the company. No additional remedial actions are reported.
 - Multiple notices of violations and administrative orders are reported in the EPA Integrated Compliance Information System (ICIS).
 - Multiple compliance monitoring inspections are reported through the US AIRS database, which tracks information about air polluters from various stationary sources of air pollution. Data is also reported for emissions under the Title V air permit for the facility.

These findings do not indicate a likely impact to the environmental conditions of the subject property.

10.1 Unmapped Sites

Unmapped sites are flagged by EDR but not mapped due to insufficient address information. They are usually included in the database search report because they are in the same zip code as the subject property. Twenty five orphan sites were listed in the EDR report. One site was identified to be within 1 mile of the subject property:

• Frontier Solar LLC, 31001 Davis Road, is located north of the subject property. The exact location of this site could not be determined. The site holds a National Pollutant Discharge Elimination System permit for construction stormwater discharge. The permit has since been terminated.



11 POTENTIAL HAZARDS AND ENVIRONMENTAL CONCERNS

Information regarding the following potential sources of hazards and hazardous material releases from the interview, site reconnaissance, and review of regulatory agency records is as follows:

Agricultural Use

Based on a review of historical aerial photographs, the subject property has been used for agricultural purposes since at least 1916, including grain, almond orchards, and walnut orchards. The orchards were planted in approximately the 1970s.

Off-Site Sources

The Fink Road Landfill to the north has a documented VOC release to groundwater, which has caused trace concentrations of VOCs in groundwater monitoring wells on and adjacent to the subject property. Some of these trace VOCs are above applicable regulatory screening levels (Section 5.3.4). This off-site source constitutes a potential REC to the subject property.

Residential Use

Based on a review of historical aerial photographs, the subject property has been used for limited residential purposes in association with farm use (e.g. a foreman's building). Based on the review of historical aerial photographs and topographic maps, some of these structures may have been present on the subject property since at least 1916. Therefore, there is a potential for asbestos containing materials and/or lead-based paint to be present on the subject property.

PCB Items

The PG&E Crow Creek switching station is observed on the subject property (APN 027-017-091). In addition, the solar energy facility has a small substation near its operations and maintenance area, and multiple pole-mounted transformers were observed throughout the property. No soil staining was observed beneath them.

According to the site owner, John E. Beltran, there is a transformer or capacitor on the subject property that may contain PCBs (Property Background Information Questionnaire, Appendix C).

Fill Material

No fill material was observed on the subject property.

Stained Soil

Stained soil observed on the subject property is considered to be *de minimis*. No discernable odor was observed near the stained areas.

Debris

Debris (irrigation tubing, metal wires, empty buckets, empty barrels, and other miscellaneous debris) was observed in multiple locations on the subject property.

Tanks

No evidence of USTs were observed on the subject property during the site reconnaissance. A septic vent pipe was observed at the foreman office area; it was unconfirmed if the septic system was operational. Several ASTs were observed or reported on the subject property, including a stationary fuel AST at the foreman office, an empty diesel AST at the horse stables, and portable ASTs located throughout the subject property. Stationary water tanks were also observed in multiple locations, including at the solar energy facility.

Asbestos

Based on the age of the structures (pre-1970), asbestos-containing building materials may be present.

Lead-Based Paint

Based on the age of the structure (pre-1970), lead-based paint may be present.

Radon

The EDR report presents radon test results for the vicinity of the subject property. Twelve sites within Stanislaus County, California were evaluated. The radon concentration at these 12 sites averaged 1.725 pico curies per liter (pCi/L). The Federal EPA Radon Zone for Stanislaus County is 3, which corresponds with indoor average radon levels of < 2 pCi/L. The Federal Radon Action Level is 4 pCi/L.

12 FINDINGS AND RECOMMENDATIONS

Information gathered for this report indicated the following:

- The subject property and surrounding areas have been a mix of agricultural and undeveloped land since at least 1916. As with any agricultural property, there is a potential for pesticide residues, including chlorinated compounds and metals, to remain in soil. Because pesticides break down over time, it is unlikely that residual pesticide levels would be above risk-based criteria. For the proposed land use, commercial risk-based criteria would be used. Metals do not break down and may remain at elevated levels; however, given the proposed commercial land use, it is not expected that metals would be above risked-based criteria.
- Four groundwater supply wells were observed during the site reconnaissance, three of which are located on the subject property (Figure 2). Four groundwater monitoring wells were observed during the site reconnaissance (Figure 2).
- A series of high-voltage transmission lines cross the subject property running north-south.
- Several ASTs were observed or reported on the subject property, including a stationary fuel AST at the foreman office, an empty diesel AST at the horse stables, and portable ASTs located throughout the subject property. Stationary water tanks were also observed in multiple locations, including at the solar energy facility.
- Based on the age of structures (pre-1970) on the subject property, lead-based paint and asbestos-containing building materials may be present.
- Mr. Beltran, subject property owner, indicated that there is a transformer or capacitor on the subject property that may contain PCBs.
- Debris was observed in multiple locations on the subject property, typical of materials observed on farming operations. It is unlikely the debris has impacted the environmental conditions on the subject property.
- Two crude oil pipelines cross the subject property (Figure 2). There are no releases, incidents, or accidents reported within 1 mile of the subject property.
- Other adjacent and nearby properties are agricultural, including grain crops, rangeland, and orchards. It is unlikely that other adjacent or nearby properties have impacted the environmental conditions at the subject property.

This assessment revealed evidence of the following RECs in connection with the subject property.

• A recent groundwater study conducted at the Fink Road Landfill identified trace concentrations of VOCs in the groundwater. The exact source of the contamination was not determined. Bromodichloromethane was detected at 0.34 μg/L in two monitoring wells located 825 feet (MW30) and 265 feet (MW32) north of the subject property. The RSL (DTSC 2018) for bromodichloromethane in tap water is 0.12 μg/L. At least three groundwater supply wells are located on the subject property (at least four wells service the farm). According to the property owner, the site is serviced by a private water well (Property Background Information Questionnaire, Appendix C). Based on the proximity of the monitoring wells to the subject property, and the cross-gradient groundwater flow direction, there is a potential for trace VOCs to be present in groundwater beneath the northern corner of the subject property above applicable regulatory concentrations. This condition creates a potential REC to the subject property.

Dudek has the following recommendations:

- Dudek recommends a survey of lead-based paint and asbestos prior to demolition of any subject property structures.
- Dudek recommends that electrical transformers on the site be visually surveyed to determine the presence or absence of PCBs. Should PCBs be present, the integrity of the transformer should be evaluated. If necessary, PCB-containing transformers should be removed and replaced in accordance with applicable laws and regulations.
- Dudek recommends that any water supply wells on the subject property that are not intended for use be decommissioned in accordance with state and local regulations.
- Dudek recommends testing the water from on-site supply wells for VOCs prior to using the water for beneficial uses, such as drinking water.

13 LIMITATIONS

The following data gap was identified:

• Mr. Beltran, subject property owner, indicated that there is a transformer or capacitor on the subject property that may contain PCBs. As the presence of this transformer or capacitor was not confirmed, this represents a data gap.

The findings and conclusions presented in this report are professional opinions based solely on the indicated data described in this report, visual observations of the subject property and vicinity, and our interpretation of the available historical information and documents reviewed. Dudek makes no warranty as to the accuracy of statements made by others or the accuracy of information included in documentation reviewed in connection with this study. This study was not intended to be a definitive investigation of potential contamination at the subject property, and the recommendations do not necessarily include all conditions that may be present. Because the scope of the investigation was limited, it is possible that currently unrecognized conditions or contamination might exist at the subject property.

No warranties or guarantees or representations, expressed or implied, are made by Dudek, except that this report has been prepared in accordance with current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professionals performing the same or similar services. The conclusions are intended exclusively for the purpose outlined herein, and may not be suitable to satisfy the needs of other users. Thus, any use or reuse of this document is at the sole risk of said user.

In accordance with ASTM Standard E 1527-13, this Phase I ESA is valid for 180 days. After 180 days, this report, or the information presented in this report must be updated in accordance with the ASTM Standard.

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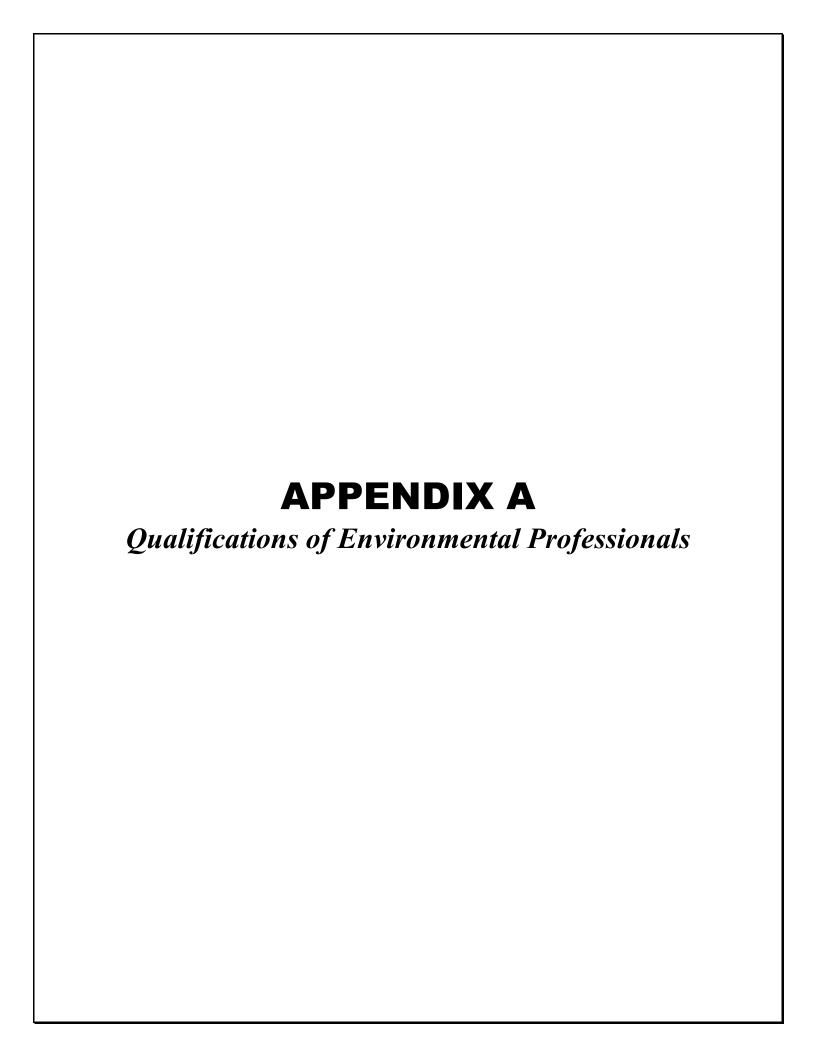
14 REFERENCES

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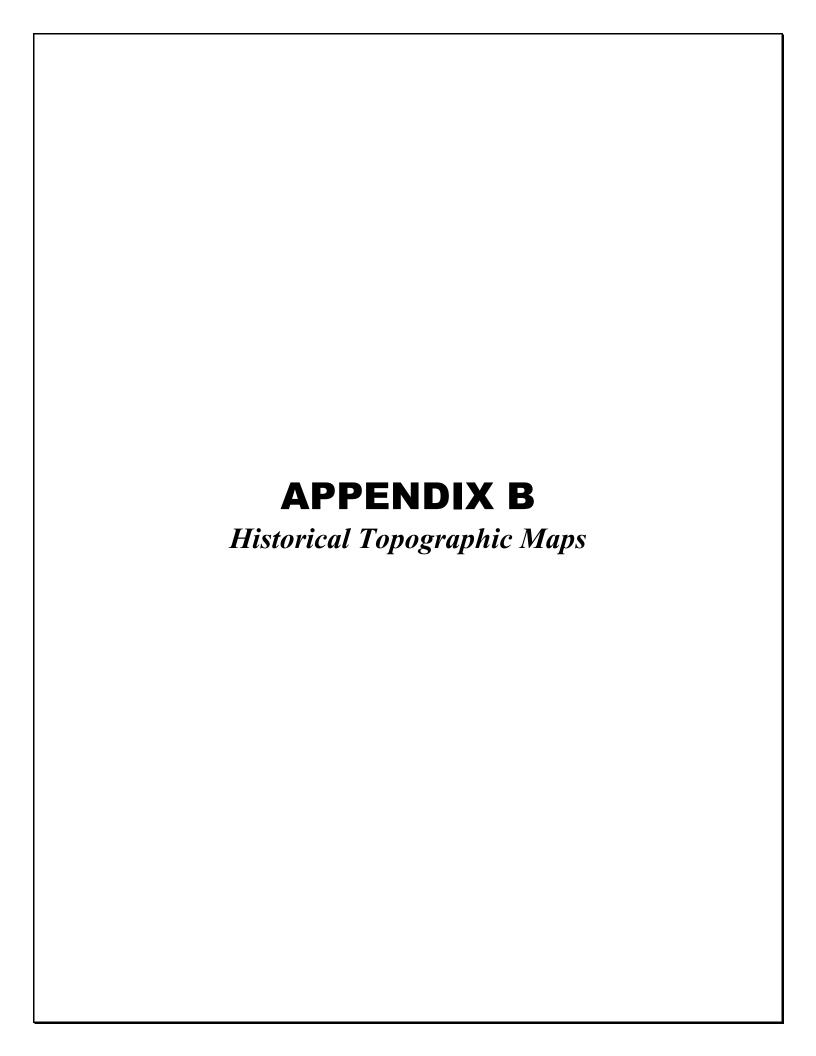
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Appendix A
Qualifications of Environmental Professionals

Environmental Professional	Professional License	Degree(s)	Years Experience	Task Performed
Glenna McMahon	Professional Engineer, State of California	B.S., Civil Engineering, University of Vermont, 1998.	17	Report Preparation/Review, QA/QC
Audrey Herschberger	Professional Engineer, State of Oregon	B.S., Chemical Engineering, Oregon State University, 2008	9	Report Preparation
Dylan Duvergé	Professional Geologist, State of California	M.S., Applied Geosciences, San Francisco State University, 2012	15	Site Reconnaissance



Beltran Ranch 24776 Davis Road Newman, CA 95363

Inquiry Number: 5478077.1

November 08, 2018

EDR Historical Topo Map Report

with QuadMatch™



EDR Historical Topo Map Report

11/08/18

Site Name: Client Name:

Beltran Ranch 24776 Davis Road Newman, CA 95363

EDR Inquiry # 5478077.1

Dudek & Associates 605 Third Street Encinitas, CA 92024

Contact: Audrey Herschberger



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Dudek & Associates were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		Coordinates:	Coordinates:		
P.O.#	N/A	Latitude:	37.370962 37° 22' 15" North		
Project:	11520	Longitude:	-121.1558 -121° 9' 21" West		
UTM Zone:		Zone 10 North			
		UTM X Meters:	663296.56		
		UTM Y Meters:	4137621.15		
		Elevation:	323.86' above sea level		

Maps Provided:

2012

1978

1971

1953, 1955

1947

1941

1919

1916, 1918

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Patterson 2012 7.5-minute, 24000



Orestimba Peak 2012 7.5-minute, 24000

1978 Source Sheets



Patterson 1978 7.5-minute, 24000 Aerial Photo Revised 1971

1971 Source Sheets



Patterson 1971 7.5-minute, 24000 Aerial Photo Revised 1971



Orestimba Peak 1971 7.5-minute, 24000 Aerial Photo Revised 1971

1953, 1955 Source Sheets



Patterson 1953 7.5-minute, 24000



Orestimba Peak 1955 7.5-minute, 24000 Aerial Photo Revised 1953

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1947 Source Sheets



ORESTIMBA 1947 15-minute, 50000

1941 Source Sheets



Orestimba 1941 15-minute, 62500 Aerial Photo Revised 1939

1919 Source Sheets



Orestimba Creek 1919 7.5-minute, 31680

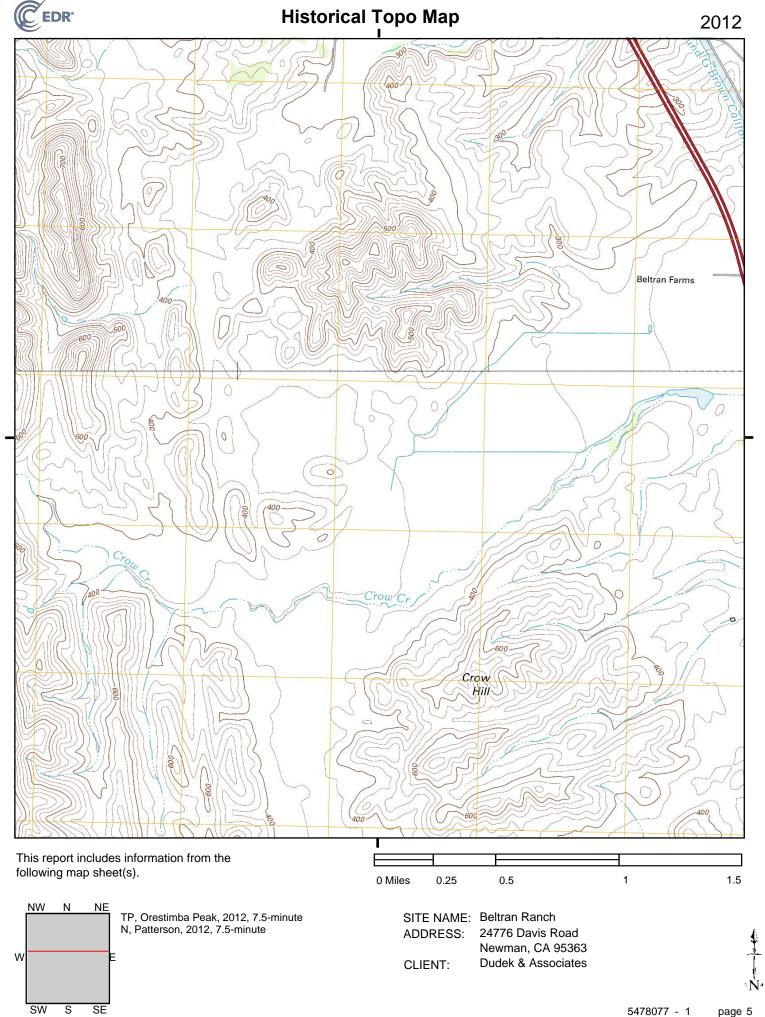
1916, 1918 Source Sheets



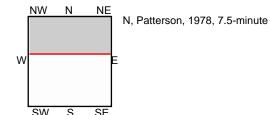
Patterson 1916 7.5-minute, 31680

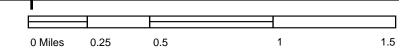


ORESTIMBA CREEK 1918 7.5-minute, 31680



This report includes information from the following map sheet(s).



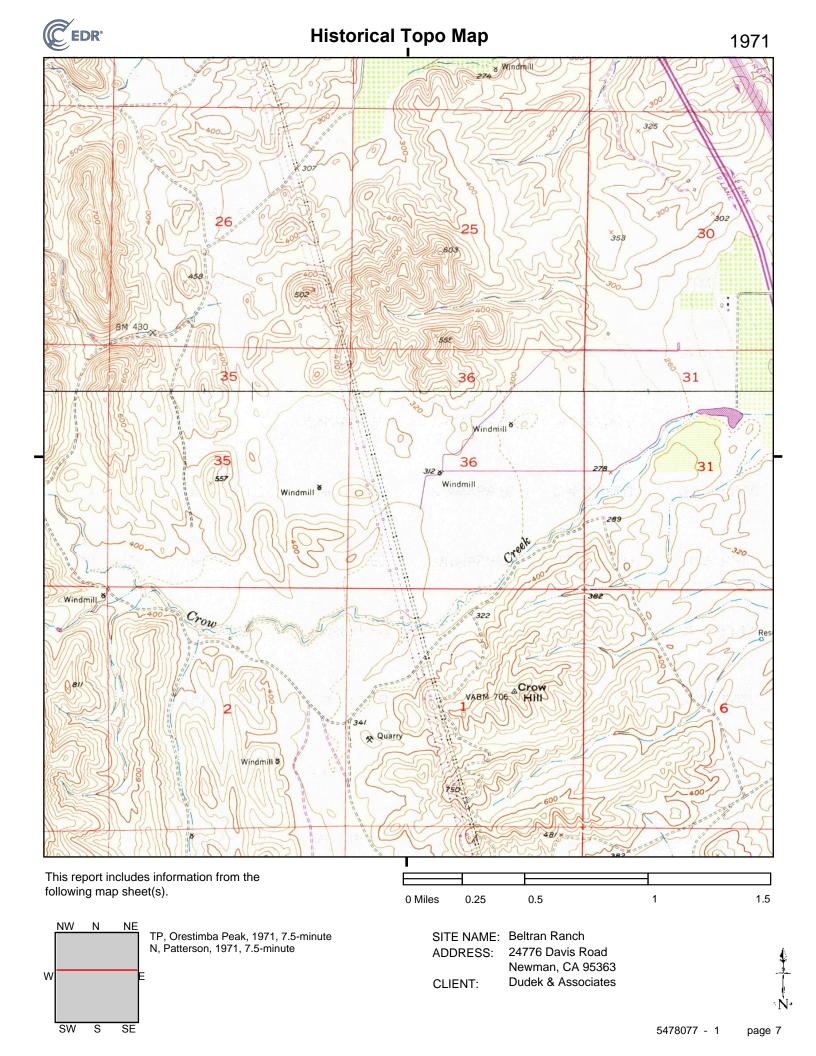


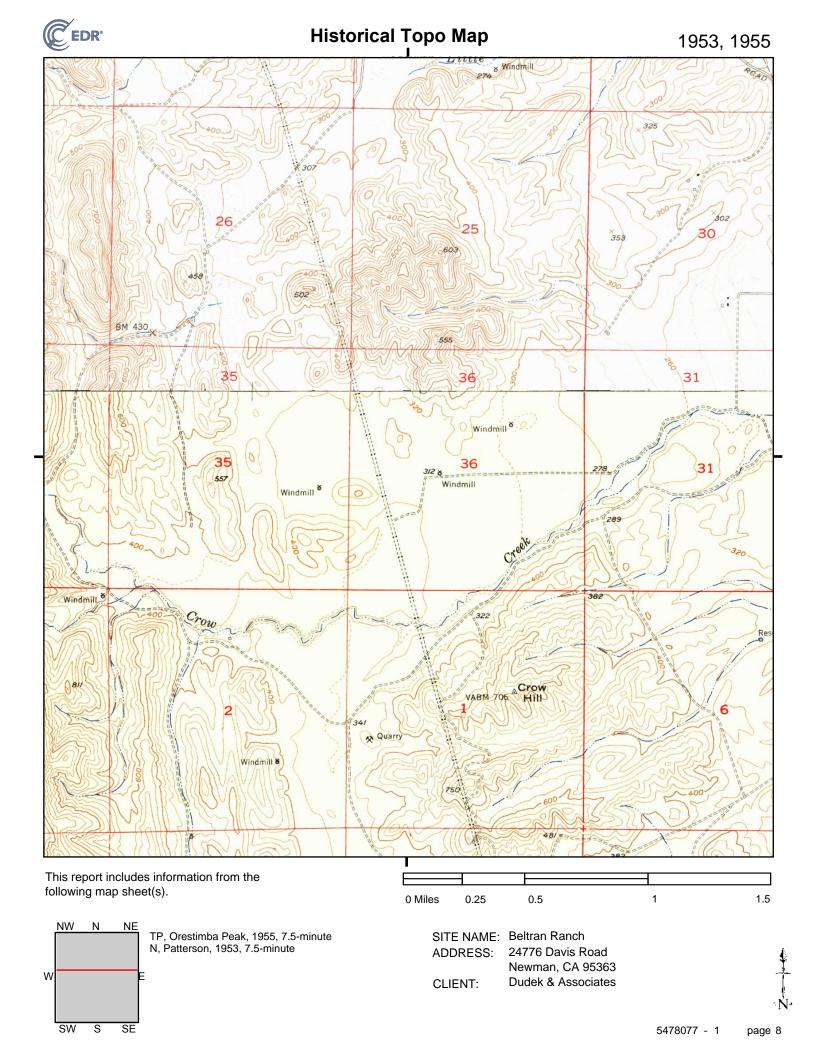
SITE NAME: Beltran Ranch ADDRESS: 24776 Davis Road

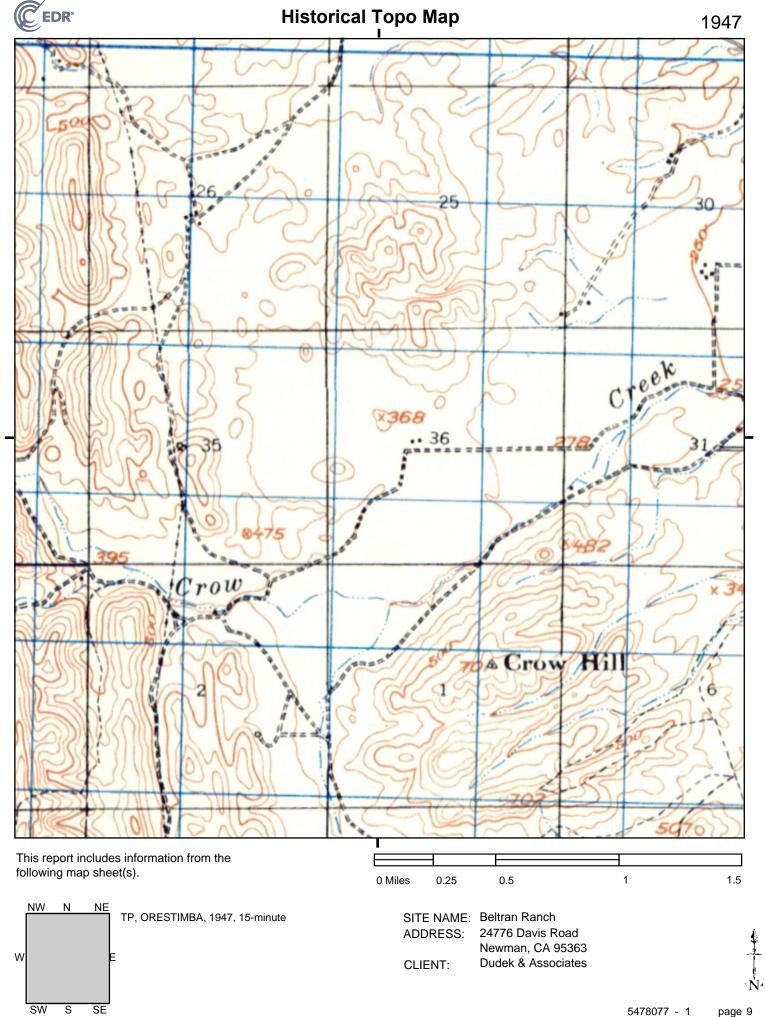
CLIENT:

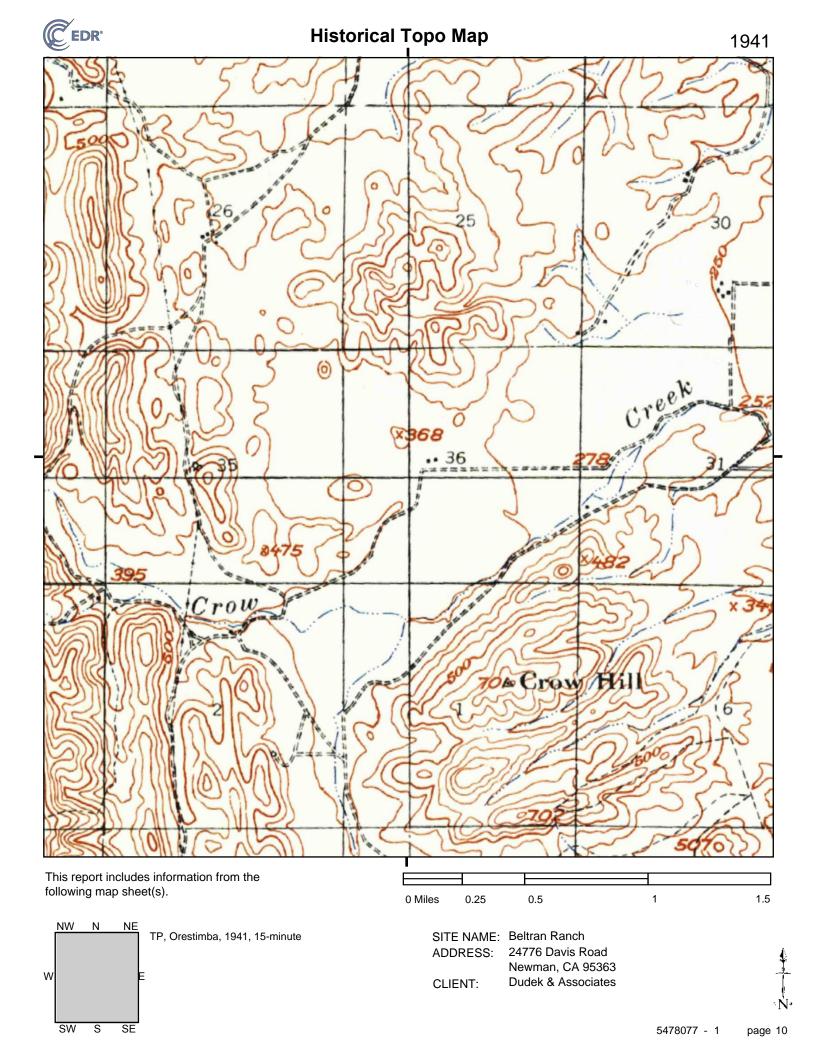
Newman, CA 95363 Dudek & Associates





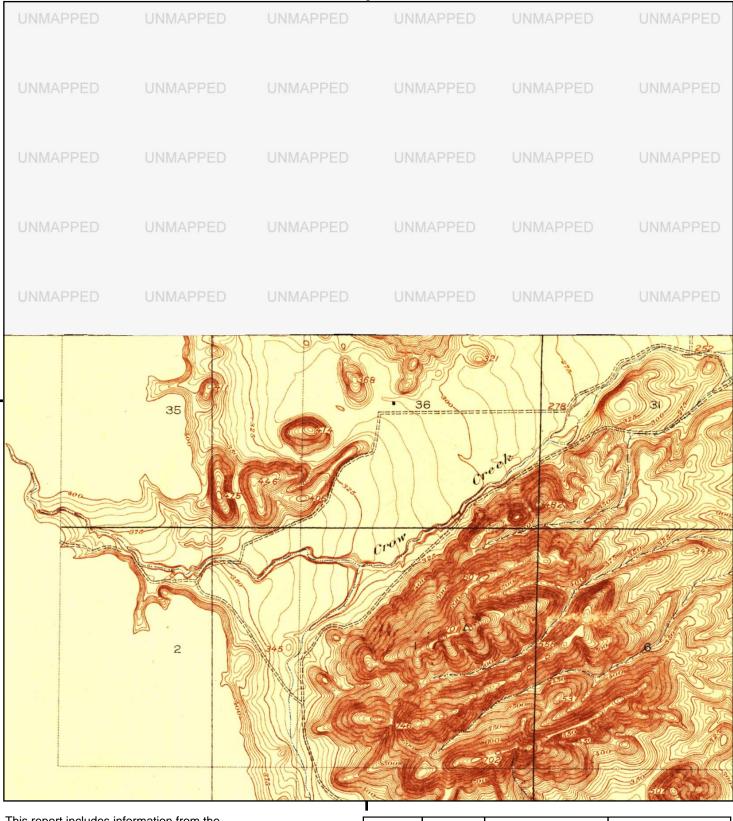




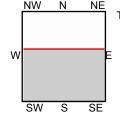




Historical Topo Map



This report includes information from the following map sheet(s).



TP, Orestimba Creek, 1919, 7.5-minute

SITE NAME: Beltran Ranch ADDRESS: 24776 Davis Road

0.25

0 Miles

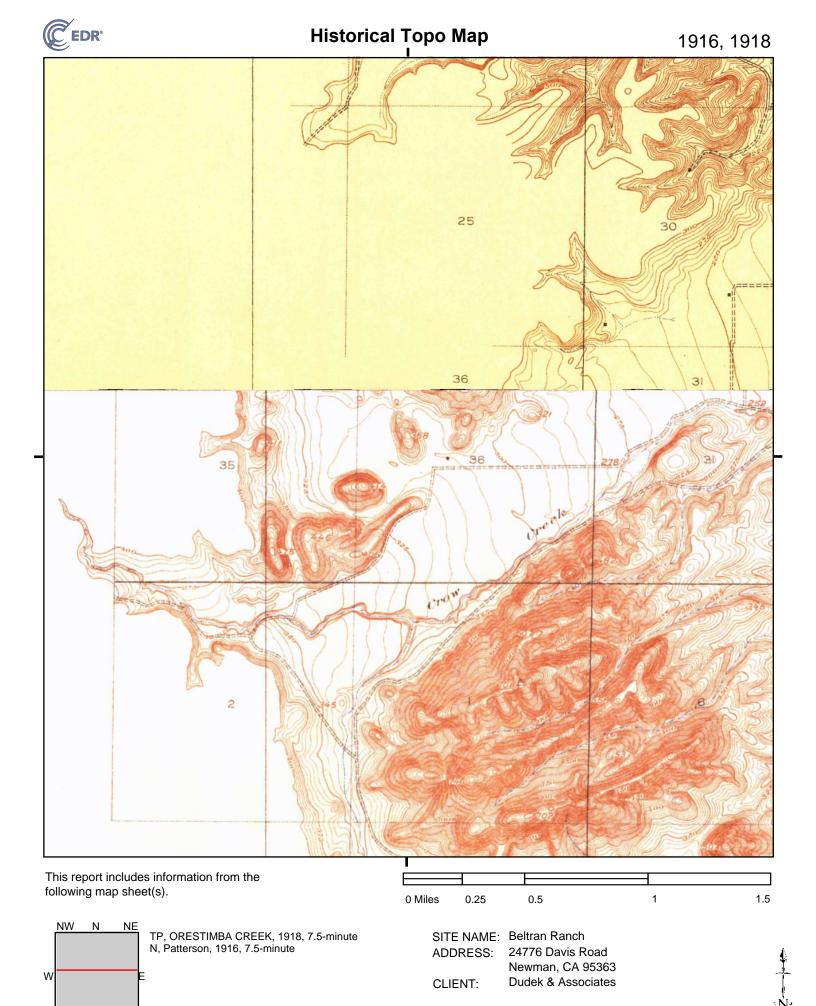
Newman, CA 95363

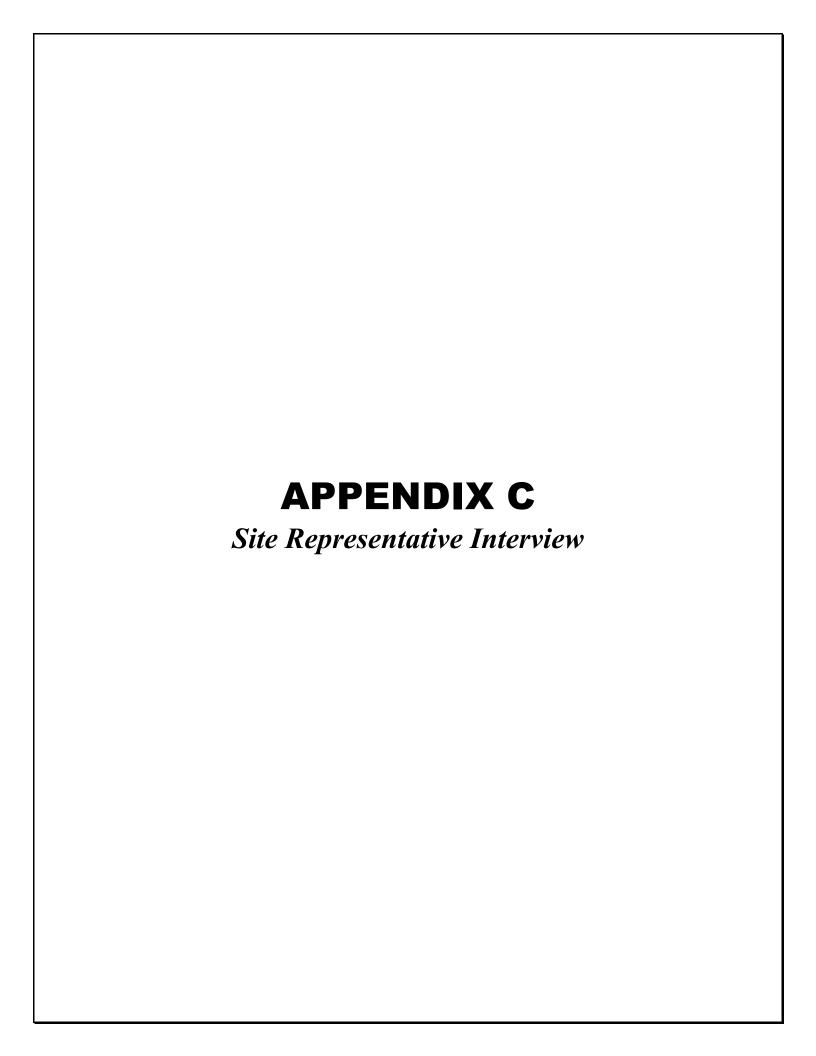
CLIENT: Dudek & Associates

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DI	EACE	CHIE	CHOTHED	DETAILS	EOD ALL	MVEQ55	ANSWERS.
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possed.	Describe the current uses of the Pr purposes, and how long have you				perty been use	d for these
2.	Describe the past uses, owners, and	d operato	ors of the P	roperty.		
3.	Have the Property or adjoining profollowing? (Please note that an a Property, even if it is across the str	adjoinin				
			(5)		·	
	Gasoline Station			Yes	No No	
	Printing Facility			Yes	No No	
	Metal Plating Manufacturing			Yes	No No	
	Landfill			X Yes	☐ No	
	Motor Repair Facility			Yes	X No	
	Dry Cleaners			Yes	No No	
	Junkyard			☐ Yes	☑ No	
	Waste Treatment			Yes	X No	
	Storage, Disposal, or Recycling F	acility	ŧ	Yes	⊠ No	
	Describe other industrial activities	s, if any.			i	
	:					
					*	
4.	Have any hazardous substances, j	_	_			3.0
	automotive or industrial batteries,	P 1000000000		iterials been	dimped abo	ve ground,
	buried, or burned on the Property?	Y L Y es	[X] 1/0			
	If yes, please describe.					
	1				i	
	İ		,		;	

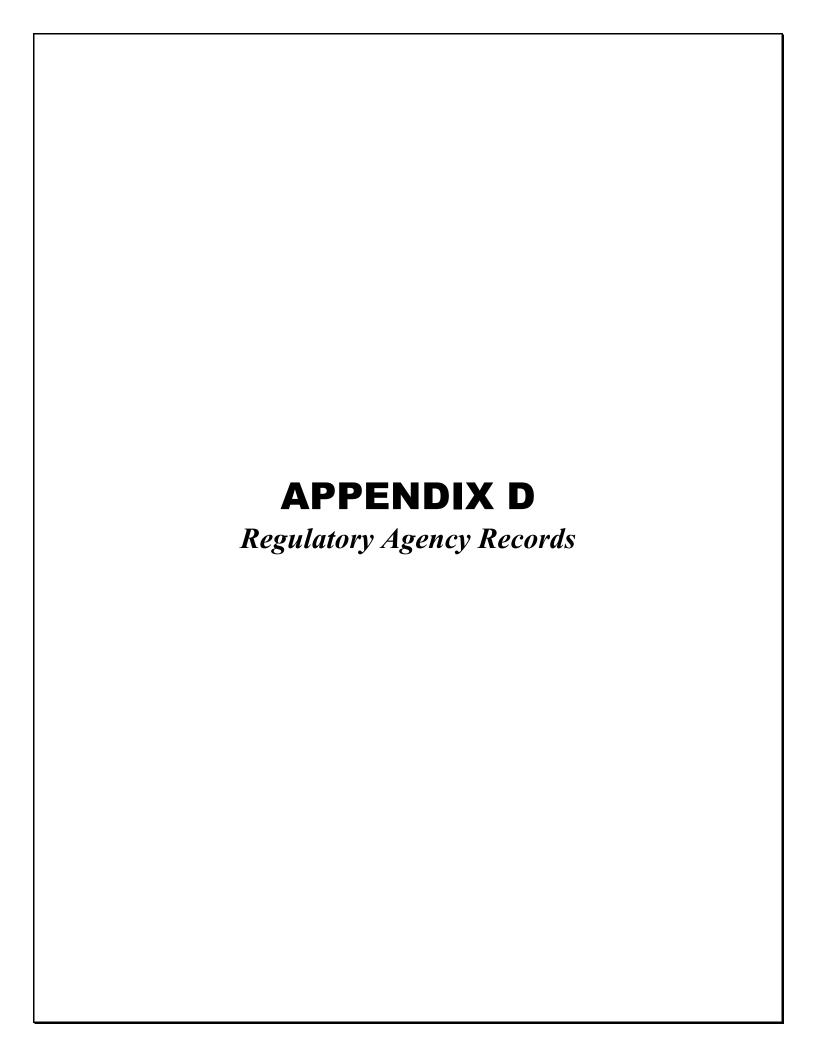
5.	Have any of the following items been stored on the Property in containers greater than 5 gallons?
	Paint ☒ Yes ☐ No Chemicals ☒ Yes ☐ No Pesticides ☒ Yes ☐ No
6.	Have hazardous substances or petroleum products been stored on the Property or transferred across the Property in pipelines, either above or below ground?
	X Yes No Unknown
7.	Have 55-gallon drums or sacks of chemicals been stored on the Property?
	Yes No Unknown
8.	Has fill dirt been brought onto the property from an offsite source?
	☐ Yes ☑ No ☐ Unknown If Yes, Source of Fill
9.	Is there evidence that the fill dirt in Question 8 may be contaminated?
	Yes No Unknown Please provide soil sampling data, if available.
10	. Are there currently any pits, ponds, or lagoons on the Property?
	Yes No Unknown
11	. Have any pits, ponds, or lagoons previously existed on the Property?
	Yes No Unknown
12	. Are there currently areas on the Property with stained soil?
	☐ Yes ☑ No ☐ Unknown
13	. Have stained soils previously existed on the property?
	☐ Yes 🔀 No 🔲 Unknown

14,	Do underground or above-ground the Property?	storage tanks exist, or have they	existed previously on
	☑ Yes ☐ No ☐ Unknown		
15.	Do fill pipes, vent pipes, or acce tanks exist on the Property?	ss ways indicating the presence of	underground storage
	☐ Yes ☒ No ☐ Unknown		
16.	Have fill pipes or vent pipes whitank been removed from the Prop	ch may indicate the presence of an erty?	underground storage
	☐ Yes ☑ No ☐ Unknown		
17.	Are floor drains stained with anyt	thing other than water in any area o	n the Property?
	☐ Yes ☒ No ☐ Unknown		
18.	Do floor drains on the Property en	mit foul odors?	
	☐ Yes ☑ No ☐ Unknown		
19.	Is the Property served by private	well or non-public water source?	
	Yes No Unknown		
20.	Are contaminants known to exist the Property?	t in any private well or non-public	water system serving
	☐ Yes ☑ No ☐ Unknown		
21.	Does the Property discharge was into the sewer?	tewater, other than domestic waste	water or storm water,
	☐ Yes ☒ No ☐ Unknown		
22.	Other than permission for domes wastewater discharge been issued	stic hookup, have any city, county i to the Property?	or local permits for
	Yes No Unknown		

23. Does a septic tank exist, or has one existed previously at the Property?
▼ Yes □ No □ Unknown
24. Do cesspools or cisterns currently exist on the Property?
☐ Yes ☒ No ☐ Unknown
25. Have cesspools or cisterns previously existed on the Property?
Yes No Unknown
26. Other than storm water, does the Property discharge waste water onto the neighboring Property?
☐ Yes ☑ No ☐ Unknown
27. Is there a transformer or capacitor that may contain PCBs on the Property?
Yes No Unknown
28. Is there any hydraulic equipment such as automobile lifts or elevators on the property?
☐ Yes 🏿 No 🗌 Unknown
29. Are PCBs contained in hydraulic oil associated with hydraulic equipment located on the Property?
☐ Yes ☑ No ☐ Unknown
30. Has an asbestos and/or lead based paint survey been conducted at the Property?
☐ Yes ☑ No ☐ Unknown
31. Have pesticides, herbicides, or insecticides been applied on the Property?
Yes No Unknown If Yes, Describe Type:
32. Are you aware of any environmental liens against the Property that are filed or recorded under federal, tribal, state, or local law?
☐ Yes ☒ No ☐ Unknown

33.	Have notices from any government environmental laws or possible liabil products associated with activities con	ity relating	g to hazardous substances or petroleum
	☐ Yes ☒ No ☐ Unknown		!
34.	. Has the property been included in any the available documents)?	of the follo	owing documents (please provide any o
	Environmental Assessment Reports Environmental Compliance Audits Environmental Permits Underground or Aboveground Tank R Underground Injection System Registr Safety Data Sheets Community Right-to-Know Plan Spill Prevention, Control, and Counter Groundwater Monitoring or Soil Samp Hazardous Waste Generator Reports Geotechnical Reports Risk Assessment Reports	rations measure Pla	Yes No Unknown Yes No Unknown Yes No Unknown Yes No Unknown
35,	. Have other environmental assessment products that exist, or may have existe		
	☐ Yes ☒ No ☐ Unknown		
36.	. Is there any pending, threatened, or pa to hazardous substances or petroleum p		
	☐ Yes ☒ No ☐ Unknown		0
37.	Are you aware of any activity and land use restrictions or institutional control filed or recorded in a registry under fe	s that are in	n place at the Property and/or have been
	☐ Yes ☒ No ☐ Unknown		

	nly known or reasonably ascertainab the environmental professional to ned releases?	
☐ Yes ☒ No ☐ Unknown		
	knowledge or experience related to t knowledge of the chemicals and pro	
☐ Yes ☒ No ☐ Unknown		
	experience related to the Property, a ence or likely presence of contaminat	
☐ Yes 🔀 No 🗌 Unknown		
41. Does the purchase price being value of the property?	g paid for this property reasonably re	eflect the fair market
Yes No Unknown	,	
		•
Ou & Better Signature	11-6- Date	2018
John E. Beltran Name (Printed)		
Owner Occupant Owner R	epresentative	
Property Address: 2260/ DA		
crows LAR	DING, CA	
		i





Back

Genera	П	Info	rmation
OCHUGIA		\cdots	

025-017-019-025-017-019-**Parcel Number** Assessment

000

000

Current Document Current Document

Date

07/01/2003

\$0

\$0

Land Acres 840.44 Tax Rate Area (TRA) 083-041

Taxability 000 -- NORMAL OWNERSHIP

Land Use 865 -- Mixed Growing Improvements

Assessee **BELTRAN FARMS**

Roll Values as of: January 1st, 2018

Land \$3,344,201 Personal Property \$0

\$427,537 Personal Property Structure(s)

(MH)

Homeowner **Fixtures**

Exemption

\$500,931 Other Exemption(s) **Growing Improvements**

\$0

Total Land & \$4,272,669 Net Assessment \$4,272,669 **Improvements**

Ownership

Owner Name Own % Pri Granting Doc No. Title Type RT Code

BELTRAN FARMS 100.00% Y 2003IConvert

Physical Characteristics

No physical characteristics found.



<u>Back</u>

Genera	П	ln	fo	rma	tion
Ochicia			-	11119	LIVII

Assessment 026-012-003- Parcel Number 026-012-003-

000 Parcel Number 000

Current Document Current Document 07/01/2003

Date

Land Acres .00 Tax Rate Area (TRA) 083-005

Taxability 000 -- NORMAL OWNERSHIP

Land Use 720 -- Irrigated Open Land

Assessee BELTRAN FARMS

Roll Values as of: January 1st, 2018

Land \$184,765 Personal Property \$0

Structure(s) \$17,806 Personal Property \$0

 $\psi^{17,000}$ (MH)

Fixtures \$0 Homeowner Exemption

Growing Improvements \$0 Other Exemption(s) \$0

Total Land & \$202,571 Net Assessment \$202,571

Ownership

Owner Name Own % Pri Granting Doc No. Title Type RT Code

BELTRAN FARMS 100.00% Y 2003IConvert

Physical Characteristics

No physical characteristics found.



<u>Back</u>

General Information

Assessment 027-017-063- Parcel Number 027-017-063-

000 Parcel Number 000

Current Document Current Document 07/01/2003

Date

Land Acres 318.75 Tax Rate Area (TRA) 083-041

Taxability 000 -- NORMAL OWNERSHIP

Land Use 730 -- Dry Open Land

Assessee BELTRAN ET AL FRED JR

Roll Values as of: January 1st, 2018

Land \$144,202 Personal Property \$0

Structure(s) \$0 Personal Property \$0

′ (MH)

Fixtures \$0 Homeowner \$0

Exemption

Growing Improvements \$0 Other Exemption(s) \$0

Total Land & \$144,202 Net Assessment \$144,202

Ownership

Owner Name Own % Pri Granting Doc No. Title Type RT Code

BELTRAN ET AL FRED 100.00% N 2003IConvert

Physical Characteristics

No physical characteristics found.



Back

Genera	П	ln	fo	rma	tion
Ochicia			-	11119	LIVII

Current Document

027-017-080-027-017-080-**Parcel Number** Assessment

000

000

Current Document

07/01/2003

Land Acres 125.29

Tax Rate Area (TRA) 083-016

Taxability 000 -- NORMAL OWNERSHIP

Land Use 815 -- Almond Orchard

Assessee **BELTRAN FARMS**

Roll Values as of: January 1st, 2018

Land \$613,308 Personal Property

\$91,319 Personal Property Structure(s)

(MH)

Date

\$0 Homeowner **Fixtures**

Exemption

Growing Improvements \$167,049 Other Exemption(s)

\$0

\$0

\$0

\$0

Total Land & Improvements

\$871,676 **Net Assessment**

\$871,676

Ownership

Owner Name Own % Pri Granting Doc No. Title Type RT Code

BELTRAN FARMS 100.00% Y 2003IConvert

Physical Characteristics

No physical characteristics found.



Back

General Information					
Assessment	027-017-082- 000	Р	arcel Number	027 000	-017-082-
Current Document		_	Gurrent Documer Date	n t 07/0	01/2003
Land Acres	144.90	Т	ax Rate Area (TF	RA) 083	-005
Taxability	000 NORM	AL (OWNERSHIP		
Land Use	815 Almond	l Or	chard		
Assessee	FRED BELTR	AN	JR & SONS PRT	NR	
Roll Values as of: Jan	uary 1st, 2018				
Land	\$617,87	7 P	ersonal Property	y	\$0
Structure(s)	\$133,85		Personal Property MH)	У	\$0
Fixtures	\$	11	lomeowner xemption		\$0
Growing Improvements	\$241,32	3 C	Other Exemption	(s)	\$0
Total Land & Improvements	\$993,05	8 N	let Assessment		\$993,058
	Own	ers	hip		
Owner Name	Own %	Pri	Granting Doc No.	Title Type	RT Code
FRED BELTRAN JR & SONS PRTNR	100.00%	Υ	2003IConvert		
Physical Characteristi	cs				
No physical characteristic	s found.				



Back

General Information			
Assessment	027-017-090- 000	Parcel Number	027-017-090- 000
Current Document	201610037537	Current Document Date	05/23/2016
Land Acres	255.78	Tax Rate Area (TRA)	083-041
Taxability	000 NORMAL	OWNERSHIP	
Land Use	805 Walnut Or	chard	
Assessee	BELTRAN FARM	I S	
Roll Values as of: Jan	uary 1st, 2018		
Land		Personal Property	\$0
Structure(s)	\$202,438	Personal Property (MH)	\$0
Fixtures	\$0	Homeowner Exemption	\$0
Growing Improvements	\$440,254	Other Exemption(s)	\$0
Total Land &	\$1,677,292	Net Assessment	\$1,677,292

Ownership										
Own %	Pri	Granting Doc No.	Title Type	RT Code						
100.00%	Υ	2003IConvert	•	•						
		Own % Pri	·	Own % Pri Granting Doc No. Title Type						

Physical Characteristics

Improvements

No physical characteristics found.



Back

General Information					
Assessment	027-017-091- 000		Parcel Number	027-0 [.] 000	17-091-
Current Document	2016R003753	37	Current Documen Date	o5/23/	2016
Land Acres	2.32		Tax Rate Area (TRA)	083-04	41
Taxability	040 ASSES	SEL) BY S.B.E.		
Land Use	805 Wa l nut	Orc	hard		
Assessee	PACIFIC GAS	8 & E	ELECTRIC COMPA	NY	
Roll Values as of: Jan	uary 1st, 2018	3			
Land		\$0	Personal Property	/	\$0
Structure(s)		*11	Personal Property (MH)	<i>'</i>	\$0
Fixtures		*11	Homeowner Exemption		\$0
Growing Improvements		\$0	Other Exemption(s)	\$0
Total Land & Improvements		\$0	Net Assessment		\$0
	Owi	ners	ship		
Owner Name	Own %	Pri	Granting Doc No.	Title Type	RT Code
PACIFIC GAS & ELECTR COMPANY	RIC 100.00%	Υ	2016R0037537		
Physical Characterist	ics				
No physical characteristic	s found.				
				<u>Тор</u>	<u>Back</u>

		Filter Chemicals By Name	Expand/Collapse All
REPORT PERIOD: 20: SUBMITTED 1/10/2015			
CHEMICAL NAME	CAS NUMBER	HAZARD LABEL	AVERAGE DAILY AMOUNT RANGE
Diesel Fuel	68334-30-5	Fire	120-599 Gallons
Gasoline	86290-81-5	Fire	120-599 Gallons
Pesticides			120-599 Gallons
Petroleum lydrocarbon	64742-65-0		12-59 Gallons
Petroleum lydrocarbon	64742-65-0	Fire	12-59 Gallons
Waste Oil		Fire	12-59 Gallons

BELTRAN FARMS 22061 DAVIS, CROWS LANDING, CA 95313



血 Geopolitical Data

County: Stanislaus County

CalEnviroscreen 2.0 Percentile Range: 86-90%

Regulatory Programs

Chemical Storage Facilities 1

Environmental Interest Start Date: 7/10/2013

Last Inspected: 4/20/2017

Source System: California Environmental Reporting System

Source System ID: 10179491

Affiliates

Filter By: All Regulatory Programs



	5329
DATE	NOTES FARM
3/20/00	marlind Jam Anna & Print Met Sue
4/17/00	Completed Palin maket Gave contact meson
**	sion, RUF
4-19-00	Inputted into farmers database of
3-21-01	applated-CA
3.28.01	Reviewedge
4-18-02	2002 Inventory mailout filed-changes made
OCT 0 7 2003	Scanned Site Map Ras.
DEC 2 3 2003	2003 INVENTORY MAILOUT FILED no changes Per
2/8/04	2004 Mail Out Filed emery cont changes - of
9.4.06	05/66 klno filed -CC
12-12-06	Site Visit Inspection - RAZ
1/25/07	Leted 2006 clow - Ent Ste class tiled OGINV-Ce
10/2/08	geled
0110100	2008 INVENTORY MAILOUT FILED
311109	8009 INVENTORY MAILOUT FILED (U)
8-3-09	SCANNED SITE MAP
12/24/09	Site Visit Inspetim-KAZ
7/21/10	2010 INVENTORY MAILOUT FILED SHOWLD AY
11/17/10	INVENTORY MAILOUT FILED
10-14-11	3012 INVENTORY MAILOUT FILED
12/12/12	Site Visit (mspection - PAZ
9[20/17	SITE VIST - Inspection, vini Files conventory cens 10179491 p



STANISLAUS COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES 3800 Comucopia Way, Suite C, Modesto, CA 95358

Phone: (209)525-6700 Fax: (209)525-6774

HAZARDOUS MATERIALS INSPECTION REPORT

California Health and Safety Code Ch. 6.95 & California Code of Regulations Title 19

Page 1 of

acility: BEITHAN FARMS					On-Site Time:
Idress: 22601 DAVIS ST. CROWS CAMDING					Date: 4/20/17
Inspection: () Initial () Triennial () Reinspection	חכ	() Co	omplaint	() Release
If in compliance, check the box. Check NA if not applicable. If a violation, determine if Minor, Class 2 or Class 1	Viinor	Class 2	Z Z	Ą	COMMENTS
Business Activities (H&SC 25505(d), 25509, 19	CCR	272	9.20	a)(1) 27 (CCR 15600(a))
FLOOLIDICEG DUSILIESS GUITAITES (DILL)	T	T	<u> </u>	<u> </u>	OOK 10000(a))
Annual inventory form submitted for previous 3 years					
Business Information (H&SC 25503.6, 25505(c), 2	<u> 5509</u>	, 25	510,	19 CCR 2	2729(a)(1))
Business owner / operator identification form complete / accurate Business plan certified by appropriate person	-	_ _		1	
Written notice to property owner		-	_	ļ	
Business has annually documented the review of the business	++	_ -	- -`	`	
plan after the initial submission		- }	}	}	
30 day notification rule	\vdash	+			
Response Plan Information (H&SC 25504(b), (b)(1), (b)(2	2) & (h)(3)	19	CCR 273	1)
Emergency response plans and procedures complete,			Ť]	
emergency coordinator information accurate		_ }	1	}	
Written prevention measures including procedures for routine			1	1	
handling of products			1_		
Contain procedures for notification of: (1) Internal personnel		-	}	}	
(2) local emergency personnel (3) Stanislaus County DER				ļ	
Procedures for evacuating the facility and mitigating an incident	140.4			77004 \40	0.00
Chemical Inventory Information (H&SC 25504 & 25509 & 255 Chemical inventory is current, accurate and complete	710, 1	19 C	UK a	2/29(a)(2)&(d))
Mixtures are reported by the common name or trade name of		+>			
the mixture as a whole	İ	-			
Employee Training Program (H&SC 25504(c), 19 CCR 273	32)	7,000			
Documented initial and refresher training program in place	7	T	T		
Training program includes: (1) Material safe handling procedures		1		1	
(2) Familiarity with response equipment and response plans					
Site/Building Map (H&SC 25504, 19 CCR 2729. North designated	<u> 2(a)(:</u>	3), 2	<u>/31(</u>	e) & appe	endix A)
Locations of material storage areas with DOT / UN numbers		+-			
Adjacent streets and property labeled	_	+			
Access & egress points and / or roads labeled	_	+-	1		
=vacuation routes and reassembly areas designated			 		
Utility shut-off locations labeled					
Dry wells, storm drains and culverts identified					
ire hydrants & fire extinguishers labeled					
Emergency equipment located					
Locations of chemical storage areas observed as on site map (H&SC 25270 - 25270 13)			Ц		
APSA (H&SC 25270 - 25270.13) SPCC Plan reguired and on site			<i>\</i>		
Facility meets APSA exemption criteria		+	4	VEam i	Construction Site □Other
OFFICIAL NOTICE			<u> </u>	an aniii Li	CONSTRUCTION SILE LICINET
SING VISIT INSPOCTION VOMIFION ON	Ver	ton			
acility is, is not in compliance with all regulatory and statutory requirement	e Do	dicio:	nion	listed mu	t be corrected within
slaus County Ordinance requires a charge of \$ per reinspection of	VOUL	noei facilit	v if v	iolations a	re not corrected by the noted

TNS



STANISLAUS COUNTY **DEPARTMENT OF ENVIRONMENTAL RESOURCES** 3800 Cornucopia Way, Suite C, Modesto, CA 95358

Phone: (209)525-6700 Fax:

(209)525-6774

(Signature) rev-8.04.10

HAZARDOUS MATERIALS INSPECTION REPORT

California Health and Safety Code Ch. 6.95 & California Code of Regulations Title 19

Page 1 of

Fac	ility: BeltRAN Farms					On-Site Time:
Add	Iress: 22601 Inspection: () Initial () Triennial () Reinspection	n		· \	Col	Date://2//2//2/// mplaint () Release
4	mspection. () mitial () Kemspection	11	(COI	Tipiaint () Release
compliant	If in compliance, check the box. Check NA if not applicable. If a violation, determine if Minor, Class 2 or Class 1	Minor	Class 2	Class 1	NA	COMMENTS
	Business Activities (H&SC 25505(d), 25509, 19	CCI				
	Completed business activities form					
	Annual inventory form submitted for previous 3 years					
	Business Information (H&SC 25503.6, 25505(c), 2	550	9, 2	55	10, 1	9 CCR 2729(a)(1))
	Business owner / operator identification form complete / accurate					1
	Business plan certified by appropriate person			_		
	Written notice to property owner					
	Business has annually documented the review of the business					
	plan after the initial submission					
	30 day notification rule) O	/1 \	(0)	10	200 0001
-	Response Plan Information (H&SC 25504(b), (b)(1), (b)(2	2) &	(b)	(3),	19 (SCR 2731)
	Emergency response plans and procedures complete, emergency coordinator information accurate					
-	Written prevention measures including procedures for routine					
1	handling of products					
	Contain procedures for notification of: (1) Internal personnel					
Þ	(2) local emergency personnel (3) Stanislaus County DER					
	Procedures for evacuating the facility and mitigating an incident					
	Chemical Inventory Information (H&SC 25504 & 25509 & 25	510	10	C	CR 2	2729(a)(2)&(d))
h	Chemical inventory is current, accurate and complete		, 10			1720(a)(2)a(a))
	Mixtures are reported by the common name or trade name of					
中	the mixture as a whole					-
	Employee Training Program (H&SC 25504(c), 19 CCR 27	32)				
4	Documented initial and refresher training program in place	/				
	Training program includes: (1) Material safe handling procedures					
	(2) Familiarity with response equipment and response plans					
	Site/Building Map (H&SC 25504, 19 CCR 2729	.2(a	1)(3)), 2	731(e) & appendix A)
	North designated					
	Locations of material storage areas with DOT / UN numbers					
Щ	Adjacent streets and property labeled	-				
	Access & egress points and / or roads labeled					
	Evacuation routes and reassembly areas designated					
	Utility shut-off locations labeled					
	Dry wells, storm drains and culverts identified					*
	Fire hydrants & fire extinguishers labeled Emergency equipment located					
#	Locations of chemical storage areas observed as on site map					*
7	APSA (H&SC 25270 - 25270.13)				Ш	
	SPCC Plan required and on site					
5	Facility meets APSA exemption criteria					□Farm □Construction Site □Other
	OFFICIAL NOTICE					BI GITT BESTIGITATION SILE BOTTLE
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I nis Stan	facilityis,is not in compliance with all regulatory and statutory requirements islaus County Ordinance requires a charge of \$ per reinspection of the county Ordinance requires a charge of \$ per reinspection of the county Ordinance requires a charge of \$ per reinspection of the county o	nts.	De	ticie	ncie	s listed must be corrected within days.
Juli	per remspection (oi y	Julil	aul	ity II	violations are not corrected by the noted date.
INIO	PECTOR: PORWY COM RECEIVED BY: JOHN F. Roll					(lick +
BUS	10.41	-	1			(Signature) rev-8 04 10
		/				(Signature) rev-8.04.10



STANISLAUS COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES 3800 Cornucopia Way, Suite C, Modesto, CA 95358

INSPECTION REPORT

California Health and Safety Code Ch. 6.95 & California Code of RegulationsTitle 19

Phone: (209)525-6700 Fax: (209)525-6774

Facility: Address: (12/Annual/Biennial Inspection: () Initial) Reinspection) Complaint/Follow-up On-Site Time HAZARDOUS MATERIALS DISCLOSURE PROGRAM (CCR 2729.2) **Business Activities Form** Completed business activities form. (renewal date **Business Information** (H & SC 25503.5, CCR 2729,2731) Business owner/operator identification form complete and accurate. **Response Plan Information** (H & SC 25503.5, 25504, CCR 2731,2732) Emergency response plans and procedures complete, emergency coordinator information accurate. Mitigation, prevention, and abatement of hazards - written procedures. Employee training program documented: initial and annual refresher. Business plan certified by appropriate person. **Inventory Information** (H & SC 25505,25509,25509.3, CCR 2729) Chemical inventory & chemical description is accurate and complete. Treatment, disposal, and waste codes reported. **Aboveground Storage Tank** (H & SC 25270.5 (c)) Single tank or cumulative petroleum storage of capacity > 1320 gal. (SPCC required-date completed Written Notice to Property Owner (H & SC 25503.5) Written notification to property owner that business is subject to HMBP requirements (leased or rented property) (H & SC 25504, CCR 2729,2730,2731) Site/Building Map No North designated Evacuation routes and re-assembly areas Utility shutoff locations Locations of each storage areas Material storage DOT codes/UN numbers Dry wells, storm drains and culverts located Adjacent streets and property labeled Fire hydrants & fire extinguishers labeled Access & egress points and roads labeled Emergency equipment located OFFICIAL NOTICE This facility __is, __ is not in compliance with all regulatory and statutory requirements. Deficiencies listed must be corrected within Stanislaus County Quantum are not corrected by the per reinapection of your facility if violations are not corrected by the referenced INSPECTO (Signature)



4013-456

STANISLAUS COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES 3800 Comucopia Way, Suite C, Modesto, CA 95358

INSPECTION REPORT

California Health and Safety Code Ch. 6.95 & California Code of RegulationsTitle 19

Phone: (209)525-6700 Fax: (209)525-6774

(Signature)

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		Site/B	uilding N	lap		(I	∃ & SC 2	5504, C	CR 2729	,2730,2731)		
S	No	N. I. a. aldis		ال.				Yes	No	Europy office			
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HAZARDOUS MATERIALS BUSINESS PLAN

STANISLAUS COUNTY

DEPARTMENT OF ENVIRONMENTAL RESOURCES

Beltran Fa Business name 22601 Davis Street address	rms. St. ws. Landing	CATEGORY
NO. OF CHEMICALS AHM L/S	AHM GAS	
HEALTH HAZARD FL 4-Deadly 3-Extreme danger 2-Hazardous	AE HAZARD ASH POINTS Below 73 F Below 100 F Below 200 F Above 200 F Will not burn	
SPECIAL NOTICE Oxidizer OX Acid ACID Alkalai ALK Corrosive COR Use NO WATER W	REACTIVITY I-May detonate -Shock and heat may detonate -Violent chemical change -Unstable if heated D-Stable	10 10 10 45 10 10 111 12-12-04 RAC

COPY TO: ACCT. GP

DATE:

65071

us County - Certified Unified Program Agen

BUSINESS OWNER/OPERATOR IDENTIFICATION

	wan.			I. IDENT	IFICATION						
ID# 532	9						THE PARTY OF THE P			4 10 200 10 10 10 10 10 10 10 10 10 10 10 10 1	
Business N	Vame	BELTRA	N FARMS	and the second commence of building and the second of the second			218	5 District	7		
Addr (#, St	reet)	22061	DAVIS		Suite		Busi	ness Phone	209-837-	209-837-4331	
City		CROWS	LANDING	and a control of the control of the debt o	State	CA	Zip (Code	95313	95313	
Dun & Brad	Dun & Bradstreet N/A STANI Operator Name JOHN E. BELTRAN			NISLAUS			NAICS		CFIR#	100	
Operator N				rafik kalanda (manakaran) raman kanakaran kalandaran kalandari (manakaran). Para 1969 (manakaran) kanakaran kalandaran kalandaran kanakaran kalandaran kanakaran kanakaran kanakaran kanaka	m i riidi miim "Abri Millimii a'ummidaa" shiiniid a's Ad Habb	- erryrang - remanen kun sawaja u	Opera	itor Phone	209-837-4	331	
				II. BUSINE	SS OWNER	eneral general construction of		THE PERSON OF TH	1		
Owner Nan	ne BEL	TRAN FA	ARMS				Phone	209-	-892-2640		
Owner Add	Owner Address 22601 DAVIS				Connected that with the sent t	5 M - Delike Delikesi repolis	Cell	representative seq	ora, ara, manggara, je ang annggarang na agajar, majaran a		
City	CRO	OWS LAN	IDING		State	CA		Zip 953	313		
			I I	II. ENVIRONMI	ENTAL CONT	ACT				Addition	
Contact Na	me JC	HN E. BE	ELTRAN		(ANATIMETERSON STORM AND THE AREA		Phone	2098	337-4331	i finance a service a	
Contact Ad	dress	20,000									
City					State			Zip			
				IV. EMERGEN	ICY CONTAC	TS					
		Pri	mary	IV. LINLINGEN	IOT CONTAC		Se	condary			
Name	JOHN E.	BELTRA	N		Name FRED E.				em na anga asema a seminana, a priming an emission masasasa a se		
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Business P	hone 20	9-837-43	31								
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	1			VI. BILLING	ADDRESS						
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Email Addres	JBELTR	AN0319@	@YAHOO.COM	,	FIGATION						
Certification: believe the in	I certify und formaiton is	ler penality s s true, accur	of law that I have pate and complete.	VII. CERTI		with the ir	formatio	n submitted	d in this invento	ory and	
Na	me of Docu	ment Prepa	rer		Name of Sig	ner			Title		
Ta	ax ID or Soc	cial Security	#	Signature of Own	ner/Operator or D	esignated	Represe	ntative	Date		
OFFICIAL US	E ONI V	СРР	hw	ARP	AST	UST		ТР	CUPA	PA	
inenector	- VIILI	····- 1	letrict	Date of It		No of Emp		111	Data Bacin	ΓΛ	

65071

us County - Certified Unified Program Age

BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDEN I	IFICATION	
ID# 5329		
Business Name BELTRAN FARMS		2185 District 7
Addr (#, Street) 22061 DAVIS	Suite	Business Phone 209-837-4331
City CROWS LANDING	State	CA Zip Code 95313
Dun & Bradstreet N/A STANISLAUS	Security of the second Security of	NAICS CFIR# 100
Operator Name JOHN E. BELTRAN	Barrier and the state of the st	Operator Phone 209-837-4331
II. BUSINI	SS OWNER	
Owner Name BELTRAN FARMS		Phone 209-892-2640
Owner Address 22601 DAVIS	om och i egistere i ett trevet ett tjäll till kantitiv plantig pelatigget pelatigget i till till till till til	Cell
City CROWS LANDING	State	CA Zip 95313
III. ENVIRONMI	ENTAL CONTAC	ЭТ
Contact Name JOHN E. BELTRAN		Phone 209837-4331
Contact Address	and the state of t	The control washing to the control of the control o
City	State	Zip
IV. EMERGEN	ICY CONTACTS	3
Primary		Secondary
Name JOHN E. BELTRAN	j - 1.	FRED E. BELTRAN
Title Emergency	₹	Emergency Alt
Business Phone 209-837-4331	Business Ph	one 209-837-0421
24hr Phone 209-892-2640 Pager # 209-604-7045	24hr Phone Pager #	
)	<u> </u>	
V. MAILING Name	G ADDRESS	
Address 701 FINK		
City CROWS LANDING		ate CA Zip 95313
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VI. BILLIN	G ADDRESS	
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City CROWS LANDING	State (CA Zip 95313
	IFICATION	bus and a support of the support of
Certification: I certify under penality of law that I have personally examine believe the information is true, accurate and complete.		ith the information submitted in this inventory and
Name of Document Preparer	Name of Signe	r Title
Tax ID or Social Security # Signature of Ow	ner/Operator or Des	ignated Representative Date
OFFICIAL USE ONLY CPP HW ARP	AST	UST TP CUPA PA
Inspector District Date of I		of Emp. Date Rec'D

BELTRAN FARMS

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Гуре	Pure		○ Waste						
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Oct

NovDec

ID#

5329

Miscellaneous

Combo

Manufacturer

19

Use

All Year

Jan

• Feb

Mar

Apr

May

Jun

Jul

AugSep

HAZARDOUS MATERIALS INVENTORY

. Facility II	IIOIIIIatii	JII						
Business Name	BELTRAN F	ARMS	The transfer of the second second second second second second second second second second second second second		Note that the manager of the second state of t	DER	D 5	(colormonity voluments)
Chemical Location	100 FEET E	AST OF THE OF	FICE			Facility	/ ID 5329	9
/lap#				Grid#	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		cal Location ential EPCRA	YES NO
I. Chemica	al Inform	ation						
Chemical Name	DIESEL FU	EL NO 2	en en gran a ser en en en en en en en en en en en en en	diamental definitions of the Proposition of the Pro	and the financial of the confined was the facility of the first facility of the confined facilit	erreta della serieri i Lodovica Speriori, in della circa di e i i i i i i i i i	that had a first first for the first state of the f	egist for American
Common Name	DIESEL FU	EL	e una may y neg sammanan, igae may aremman gan migrae a talah talah gan Misan iti sama 1997 (dari		to the state of th			earno-search F
CAS#	648476-34-0	Fire Co	de Hazard Class	es į				erian Salah (Salah) angan mahangan m
Гуре	Pure	◯ Mixture	○ Waste	O EH	S if YES must	be in pounds	○ Trade	Secret
Physical State	○ Solid	Liquid	◯ Gas	Property of the second	○ Radio	active	Curies	And the second s
Fed. Hazard Categories	• Fire	○ Reactive	O Pressure F	Release		Health	Chroni	c Health
Units	M	ax Daily Amt	10000	Largest	Container	10000	GALLONS	(Units)
		vg Daily Amt	4000		aste Code	and the second of the second o	lanca de come continue de la continu	(Office)
1	T	nnual Waste Amt		Days Or		365		
If extremely harzado			rted in pounds	Days C.	. 0.10	1		
Storage Containe	er Code - Che		te Box Below					
Aboveground		Carboy	◯ Glass					
UndergroundTank Inside I				c Bottle				
Steel Drum	bullding	○ Bag	○ Tote I					
Plastic Nonm	netallic Drum	○ Box	○ Rail C	-				
O Can		O Cylinder	Other					
Pressure Stora	ge	Ambient	O Above A	mbient	O Below Ar	mbient		AND THE PROPERTY OF THE PROPER
Storage Tempe	erature	Ambient	Above A	mblent	○ Below Ar	mbient () Cryogeni	C
% Wt Hazardo	ous Compone	nt			the second secon		EH	S CAS#
100 DIESEL	FUEL #2					gana ar ann an t-airge ar Air an Airge gan gailte a' ann an		68476-34-6
1 NAPHT	HALENE				, major na je, na mojor na mojorjeka je maliž ni na drabili na kaj 19 s.ž	1.0 The 10.4 (10.0 The 10.0 Th	0	91-20-3
1 ETHYL	BENZENE				a partie a na cultural despuis que de tentra est en proprieta e sept	ACTIVITY OF THE PROPERTY OF	0	100-41-4
99 DISTILL	ATES, STRA	IGHT RUN MID						68814-87-9
0.5 SULFU	R							7704-34-9
If more harzardous of capturing the require		e present at greater t	han 1% by weight if	non carcino	genic, or 0.1%	be weight of ca	arcingenic attac	ch additional sheets of paper
		LLECTED INFOR	MATION:					
NFPA Information	on	Health 1	Fire 2	Rea	ctive 0	Special	7	
DOT Haz Class	3	UN / NA	1202		DOT ER GU	uide 128	mand times of to take other free	
if EPCRA. Please	Sian Here							
OFFICIAL USE	des transais a libertaria mende	SECURITY DESCRIPTION OF THE PROPERTY OF THE PR	CHINA (ACCOUNTS OF THE CONTRACT OF THE CONTRAC	DESCRIPTION OF THE PROPERTY OF		and the second 		
Date Received			Reviewe	ed By	an and the second discount of the second	en e vo West 2 ochster ette det sammer Viskenstinnet Ster	and the second s	min tun min mi tul salata kak tuk a gaba su dabahangian mengal san kubasadi mila kama
District			Date Re	viewed	The second second second second second		Date Impute	ıd
•	:				2.4	i	•	, 1

HAZARDOUS MATERIALS INVENTORY

usiness Name										
	BELTRAN	FARMS					DERI	D	22	egg a contamper or all
emical Location	100 FEET	EAST OF	THE OFF	FICE		And a second of the second of	Facilit	y ID	5329	ng or or a sering group.
ıp#	;				Grid#			cal Locat ential EF		YES NO
Chemica	l Infori	matior	n			*	Comide	FIRIAI EF	CIVA I	
nemical Name	PETROLE	EUM HYD	ROCARBO	DN	Caramiran and St. St. St. St. St. St. St. St. St. St.	and the later to be a second to the second property of the second property of the second seco	والمساور المساور	entra a ademica est estres a diferent		mading
mmon Name	GASOLIN	E (RU) (U	J+) (P)		gymeneg generginggen a generg. Da sg. sky a diga a disebba set gener	a elemptone el competito de la competito de la competito de la competito de la competito de la competito de la	78, 2 (1100-11-1912), 1914(110-11-1912), 49-2 (man oo maran oo maran oo ah ah ah ah ah ah ah ah ah ah ah ah ah	en anno de la companya del companya del companya de la companya de	
AS#	8006-61-9			de Hazard Class	es l	and a second to the second sec	eter kit verda tyanasının eterniyası kit va detiya de Kiri veri himmi interniyası Alaşımı, etiyanga gerini	one de seu d'altre est de l'antide de seu constitue	teranotteranamentenistiktion on oranismissä varanamentenisti	
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rpe .	O Pure		Vixture	○ Waste	O EH	S if YES must		() Tr	ade Se	cret
iysical State d. Hazard	Solid	⊙ L	_iquid	◯ Gas	No statement	○ Radio	active	Curie	s	(SIX of an internal variation for a second of the
tegories	• Fire	O F	Reactive	O Pressure F	Release	Acute	Health	⊙ CI	ronic H	lealth
Units		Max Daily	/ Amt	500	Largest	Container	1000	GALLO	NS	(Units)
● Gals ○ G	Cu Ft	Avg Daily	Amt	250	State W	aste Code	10-14-24-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			1,
○ Lbs ○ 1	Tons	Annual W	/aste Amt		Days On	Site	365			
○ Steel Drum○ Plastic Nonme○ Can○ Pressure Storag	je	○ c _y	ox ylinder Ambient	Rail C Other Above A	mblent	O Below A				
			Ambient	Above A	mbient	O Below A	mbient (Crun	genic	
Storage Temper	rature			modeline or of the Control of the Co	et green grant en getard production and an entre of	ente conscionis described a discontrational	etas la començatamente constituir e colodo sono	oryu mananana	amakatari da Lari da L	All of Philodocks common decommon for over the dominant materials cover on a common service of the contract of
	rature us Compor			entre productive de productive de productive de mengra e de productive de productive de la constant de la const		gent formulaski formulaski na dam i terkili ili kun 1944 - Landin Sandania		City Control of the C	EHS	CAS #
6 Wt Hazardo		nent		OF				Silver of a class description of the class o	annahater datiber de la	CAS#
6 Wt Hazardoo	us Compor CARBONS	nent W/A BP (OF 70F-44	0F L ALCOHOL				Star on all is deared of the control	EHS	8006-61-9
6 Wt Hazardon 89-94 HYDRO0 0-10 GASOLII	us Compor CARBONS	nent W/A BP (OF 70F-44						EHS	guranean and a comment of the commen
% Wt Hazardoo 89-94 HYDROO 0-10 GASOLII	us Compor CARBONS NE-GRADI	nent W/A BP (OF 70F-44						EHS	8006-61-9
% Wt Hazardoo 89-94 HYDROO 0-10 GASOLII	us Compor CARBONS NE-GRADI	nent W/A BP (OF 70F-44						EHS	8006-61-9
% Wt Hazardon 39-94 HYDRO 0-10 GASOLII 1-3 ETHYL E	us Compor CARBONS NE-GRADI BENZENE	nent W/A BP (E TERTIA	OF 70F-44 RY-BUTYI	L ALCOHOL	f non carcino				EHS	8006-61-9
Wt Hazardon 39-94 HYDRO 0-10 GASOLII 1-3 ETHYL E	us Compor CARBONS NE-GRADI BENZENE omoponents	nent W/A BP (E TERTIA	OF 70F-44 RY-BUTYI	L ALCOHOL	f non carcino				EHS	8006-61-9
% Wt Hazardon 89-94 HYDRO 0-10 GASOLII 1-3 ETHYL E	us Compor CARBONS NE-GRADI BENZENE omoponents of d information OCALLY Co	nent W/A BP (E TERTIA	OF 70F-44 RY-BUTYI	L ALCOHOL					EHS	8006-61-9
% Wt Hazardon 89-94 HYDRO0 0-10 GASOLII 1-3 ETHYL E	us Compor CARBONS NE-GRADI BENZENE omoponents of d information OCALLY Co	nent W/A BP (E TERTIAL are present OLLECTE Health	OF 70F-44 RY-BUTYI at greater tr	L ALCOHOL nan 1% by weight if MATION:		genic, or 0.1%	be weight of ca		EHS	8006-61-9
Wt Hazardou 39-94 HYDROG 0-10 GASOLII 1-3 ETHYL E more harzardous co pturing the required ADDITIONAL LC NFPA Information DOT Haz Class	us Compor CARBONS NE-GRADI BENZENE Omoponents d information DCALLY Con	nent W/A BP (E TERTIAL are present OLLECTE Health	OF 70F-44 RY-BUTYI at greater tr	L ALCOHOL nan 1% by weight if MATION: Fire [3]		genic, or 0.1%	be weight of ca		EHS	8006-61-9
Wt Hazardou 89-94 HYDRO 0-10 GASOLII 1-3 ETHYL E more harzardous co pturing the required ADDITIONAL LC NFPA Information DOT Haz Class EPCRA. Please	us Compor CARBONS NE-GRADE BENZENE Omoponents d information DCALLY Con FL Sign Here	nent W/A BP (E TERTIAL are present OLLECTE Health	OF 70F-44 RY-BUTYI at greater tr	L ALCOHOL nan 1% by weight if MATION: Fire [3]		genic, or 0.1%	be weight of ca		EHS	8006-61-9
% Wt Hazardon 89-94 HYDRO 0-10 GASOLII 1-3 ETHYL E	us Compor CARBONS NE-GRADE BENZENE Omoponents d information DCALLY Con FL Sign Here	nent W/A BP (E TERTIAL are present OLLECTE Health	OF 70F-44 RY-BUTYI at greater tr	L ALCOHOL nan 1% by weight if MATION: Fire [3]	Rea	genic, or 0.1%	be weight of ca		EHS	8006-61-9

HAZARDOUS MATERIALS INVENTORY

. Facility in	normati	on								
usiness Name	BELTRAN I	FARMS			, major ga e g agenta con a municipal gangta conspo	D	ER ID	27	**************************************	
nemical Location	SOUTH OF	THE OFFICE	4 · · · · · · · · · · · · · · · · · · ·	y ,	.,	F	acility ID	5329		
ap #			-	Grid#	age of Spherical Annual Control		nemical Loc onfidential l		YES	☑ NO
. Chemica	al Inform	nation								
hemical Name	PETROLE	UM HYDROCARE	BON			***************************************			Angered Service Services	
ommon Name	HYDRAUL	IC OIL	and the second s	, produce ago common y common actual program			en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	a fraganisma dangai dangandha ghiradh l		
AS#	64742-65-0) Fire Co	ode Hazard Class	es	Mar Supports is better and Artist of the Control of	r volument i manne en ermennet in iner institucionen existe menuticario even	The control of North Helicides and confirm and made	er en en en en en en en en en en en en en	Note the second	
/pe	O Pure	Mixture	○ Waste	() EH	IS if YES mu	st be in pou	unds 🔘	Trade Se	ecret	
nysical State	○ Solid	Liquid	◯ Gas		. Rad	ioactive	Cui	ries		
ed. Hazard ategories	Fire	○ Reactive	O Pressure	Release	Acu	te Health	0	Chronic	Health	
Units		//ax Daily Amt	55	Largest	Container	55	GAL	LONS	(Units)	m. d
		Avg Daily Amt	30		aste Code	action distribution of an		and succession of the succession	(Office)	
O Lbs	T	Annual Waste Ami		Days O		365				
AbovegroundUndergroundTank Inside ISteel Drum	d Tank I Tank	eck the Appropria Carboy Silo Fiber Drum Bag	 Glass Plasti Tote Tank	ic Bottle Bin Wagon						
O Plastic Nonm	netallic Drum	-	○ Rail (
○ Can Pressure Stora	ae	Oylinder Ambient	Othe		O Below	Ambient				
Storage Tempe		Ambient	Above A	.,		Ambient	O Cı	yogenic	, ,	hand day of the second
% Wt Hazardo	ous Compon	ent		Age, garage and an extension of the con-	ermannes anno 41 meterra estre i fina		ay ya ee hada gaara ahaa ahaa ahaa ahaa ahaa ahaa ah	EHS	CAS	3 #
90 OIL MIS	ST					.,				
1 ZINC C	OMPOUND		en angere yenne en en en en en en en en en en en en	a year and a second and an annual second	aj krimana karasanana, muu ayama aya anna anda anta anda anda anda anda and	ter tegenta es atuación de camero serviron o escuente es a messago en camero ser	The same of the sa		Carlotte Annual Control	a programme i gramma i gramma i gramma i gramma i gramma i gramma i gramma i gramma i gramma i gramma i gramma
1 ZINC A	LKYLDITHIC	PHOSPHATE				(C. Stein, v. a. sanchine, v. d. C. C. a. v. see		0	41,000,000	
1 CALCIL	JM PHENATI	E				**************************************				
									West of the second	William Control of the State of
apturing the require	ed information OCALLY CC	DLLECTED INFOI Health 0			ogenic, or 0.19 active 0 DOT ER 0	Spec	ganzarronannon	nic attach	additional :	sheets of paper
EPCRA. Please	Sign Here									
OFFICIAL USE	ONLY				To tomorrow with the addition	Andread control for the comment	more than it work in the cold strategy strategy.			o van monte i mastelland etteration de sametil kan die de se misse
Date Received		en anne ag gan ag an the type of Sanga ag the second	Review		White the second	engapagagan pamenda (kanadari) dan ka			Park description	
District			Date Re	eviewed	}		Date	Imputed		

HAZARDOUS MATERIALS INVENTORY

і. гасінцу н	поппац	ווכ								
Business Name	BELTRAN F	ARMS			,	DEF	RID	6		
Chemical Location	SOUTH OF	OFFICE	and the second of the second second		.,	Faci	ility ID	5329		
√lap#				Grid#			nical Loca idential E		YES §	NO
I. Chemica	al Inform	ation			•					
Chemical Name	PETROLEU	M DISTILLATE				- ************************************	g. 27, 11, 12, 12, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14			
Common Name	MOTOR OIL	·				and the second of the second o	magase ta ama sen senamen ana tamban an	***************************************		
CAS#	64742-55-8	Fire Co	de Hazard Class	es				ene ger gelegen i Antonio Persona e		
Туре	O Pure	Mixture	○ Waste	│ ○ EH	S if YES must	be in pound	s () 1	rade Sec	ret	
Physical State	○ Solid	Liquid	○ Gas	Mary a Mary and a state of the	○ Radio	oactive	Curi	es		
Fed. Hazard Categories	• Fire	Reactive	O Pressure F	Release	O Acute	e Health	⊙ (Chronic H	ealth	
Units	M	ax Daily Amt	55	Largest	Container	55	GALL	ONS.	(Units)	
	:	vg Daily Amt	30	State W	aste Code	1 - 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-)	
O Lbs O	Tons A	nnual Waste Amt	0	Days Or	n Site	0				•
If extremely harzado Storage Containe				:		B				
Can	d Tank Building netallic Drum	Carboy Silo Fiber Drum Bag Box Cylinder	○ Plasti ○ Tote I ○ Tank ○ Rail C ○ Other	Wagon Car						
Pressure Stora	Ī.,	Ambient	○ Above A		○ Below A			Activities of the second state of the second		tion to the state of the state
Storage Tempe		Ambient	Above A	mbient	○ Below A	mbient	() Ch	ogenic	energia de la compressió de la compressi	Friday 14. Sun Fridan and an am XIII of the Sun Sun Sun Sun Sun Sun Sun Sun Sun Sun
1	ous Compone						and a standard or good of a standard or	EHS	CAS#	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	LEUM DISTIL	LATES		er og afterning gjognere er er gjelget aftiggetyd. Graf og ar er	indit of which is and indicated from the weeks	non meneraman kanada meneraman kanada kanada kanada kenada kanada kanada kenada kenada kenada kenada kenada ke			64742-55	Section and security a section of the section of th
15 ADDITI	VES	anna a an an an an an an an an an an an	ng mananan mananan mananan kamanan kam Kanan manan manan kamanan kama	e aga aga a sagar e aga sene e engaga e com sene Caga aga aga ga e a aga a aga an ang ang ang aga aga aga		annual representative of provincial accountaint of and and] 0	68649-42	4-3
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						10	and the second color of th	Į O	Annes de Paris de Antonio de La Companya de La Comp	and the state of t
			.,,			na amerika new Legerenska policie (i Schmi	**************	10		
If more harzardous of capturing the require	comoponents are	e present at greater t	han 1% by weight it	f non carcino	ogenic, or 0.1%	be weight of	f carcingen	ic attach a	dditional she	eets of paper
		LLECTED INFOR	RMATION:							
NFPA Informati	on	Health 1	Fire 1	Rea	ctive 0	Special	L			
DOT Haz Class	3	UN / NA	1270		DOT ER G	Suide 1:	28			
if EPCRA. Please	e Sign Here									
OFFICIAL USE							arterial communications are a second	market programme (All Alexander)	CONTROL OF THE STREET	
Date Received			Reviewe	ed By	For each transmission of each flower density	Salidation manufacture with alone Account		nt' d'oran oc'n e de d'élémène elem	en en Verent Plant e medicellustration and et transfer	AN AND AND AND AND AN AN AN AN AN AN AN AN AN AN AN AN AN
District		And the second s	Date Re	eviewed	formy a menoral region		Date I	mputed		anggajang ng pananahanahagkan arkanik ngkarikin

HAZARDOUS MATERIALS INVENTORY

. Facility In	nformati	ion					· .	
Business Name	BELTRAN	FARMS	e e e gone e e e e e gone e e e e e e e e e e e e e e e e e e			DER	D 934	4
Chemical Location	200' EAST	OF OFFICE			en i de seuse de constité l'annon reconstituée annount la	Facilit	y ID 532	29
Лар #)	Grid#	and the second s		cal Location	A TYES VNO
I. Chemica	al Inforn	nation						•
Chemical Name	PESTICIDI	ES	, iii i 3, mm qui ii i _s mmi m cankmbi,i b	and the state of t	 S. Agai, S. Sagai Sada William St. St. Land St. March St. St. Laborator St. St. Laborator St. St. Laborator St. St. Laborator St. St. Laborator St. St. Laborator St. St. Laborator St. St. Laborator S	THE RESERVE OF STREET	$\varphi_{ij} = \max_{i} \max_{j} \min_{i} \varphi_{ij} \left(\frac{1}{2} \varphi_{ij}^{i} \varphi_{ij}^{j} \right) \varphi_{ij}^{i} \left(\frac{1}{2} \varphi_{ij}^{i} \varphi_{ij}^{i} \right) + \frac{1}{2} \varphi_{ij}^{i} \varphi_{ij}^{i} \left(\frac{1}{2} \varphi_{ij}^{i} \right) \varphi_{ij}^{i} \left(\frac{1}{2} \varphi_{ij}^{i} \right) + \frac{1}{2} \varphi_{ij}^{i} \varphi_{ij}^{i} \left(\frac{1}{2} \varphi_{ij}^{i} \right) \varphi_{ij}^{i} \left(\frac{1}{2} \varphi_{ij}^{i} \right) \varphi_{ij}^{i} \left(\frac{1}{2} \varphi_{ij}^{i} \right) + \frac{1}{2} \varphi_{ij}^{i} \varphi_{ij}^{i} \left(\frac{1}{2} \varphi_{ij}^{i} \right) \varphi_{ij}^{i} \left(\frac{1}{2} \varphi_{ij}$	Malachet F-Marin (47)
Common Name	PESTICID	ES	The second secon	**************************************		no ne ne meneral (1996).	e de la company de la company de la company de la company de la company de la company de la company de la comp La company de la company d	A Company of the Manager of the Mana
CAS#		Fire Co	de Hazard Classe	es	ale en e ' e e e e e emilie e métrété anne de réferen A	erenen eta erenen eta erenen eta erenen eta erenen eta erenen eta erenen eta erenen eta erenen eta erenen eta e	planet et an early emperification expension estillers	And a specific control of the
Туре	O Pure		Waste	○ EHS	if YES must be	in pounds	○ Trade	Secret
Physical State	○ Solid	Liquid	◯ Gas		○ Radioad	ctive	Curies	
Fed. Hazard	Fire	○ Reactive	O Pressure R	lelease	O Acute H	lealth	○ Chron	nic Health
Categories			250	Largest C	`antainar ((a) and a section of the section of	namayana)mayana magaala oo ahaa ahaana ahaa ahaa ahaa ahaa aha
Units • Gals	•	Max Daily Amt Avg Daily Amt	125		ste Code	Antifallina stylvana Visilana Visilani antika Visilani visilan		(Units)
1 _	Tone	Annual Waste Amt	120		<u> </u> _	na, ma nay mana na maga ya na nakamada		
If extremely harzado	us substance,	amount must be reported the Appropriate		Days On	Oile [
Aboveground		Carboy	Glass	Bottle				
 Underground 	l Tank	○ Silo	9	Bottle				
○ Tank Inside I○ Steel Drum	Building	○ Fiber Drum○ Bag						
O Steel Drum O Plastic Nonn	netallic Drum	_ •	Rail C	-				
○ Can	iotaliio Diaiii	○ Cylinder	Other				•	
Pressure Stora	ge	Ambient	Above A	mbient	Below Aml	bient		As annual transfer and a second secon
Storage Tempe	erature	Ambient	Above A	mbient	Below Aml	bient	Cryogen	Nic
% Wt Hazardo	ous Compon	ent			and the second s	Vis. desperiments, especial que con a con m	Eŀ	HS CAS#
				engen generalisen i territoria en 2000 international de 2000 inter	ere i generali e grande de la compania de la compania de la compania de la compania de la compania de la compa La compania de la comp			
			and the second of the second o	and the second second second party of	enii Pur - 551, 55m angabanna " 111255 11154 nishin	Angelis, annese la trippe de l'April de l'		
				5 - 1 - 1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3		eth who to district the case strend efficience		
						,,)
					1	The second section of the second second section of the second sec)
If more harzardous of capturing the require		re present at greater t	han 1% by weight if	non carcino	genic, or 0.1% be	weight of c	arcingenic atta	ach additional sheets of paper
		OLLECTED INFOR	MATION:					
NFPA Informati		Health	Fire	Read	tive	Special		
DOT Haz Class		UN / NA			DOT ER Guid	de	and an analysis and a second	
if EPCRA. Please	Sign Here							
OFFICIAL USE	Desir de en autoria des fier en en ve							
Date Received			Reviewe	d By		town (2011 shortly relief to Assess AN	V	Verifier a registrative control and a filter should be a filter and a control and a control and a control and a
District			Date Re	viewed	The second secon		Date Imput	ed

HAZARDOUS MATERIALS INVENTORY

. Facility in					· · · · · · · · · · · · · · · · · · ·			taa			
Business Name	BELTRAN	N FARMS				DE	RID	80			
Chemical Location	SOUTH C	OF THE SHOP				Fa	cility ID	5329	.,, .,,		
Лар#				Grid#			mical Loc fidential l		YES	☑ NO	
I. Chemica	al Infor	mation									
Chemical Name	WASTE	OIL			·	nga a mali yana yanganina dipanggipali yang ma	erio mantro e promiento promiento de conservo	general egenetagenesene e om si			
Common Name	WASTE	MOTOR OIL MIX PI	ETROLIUM OIL			And the state of t			1		
CAS#		Fire Co	ode Hazard Class	ies		and the second s					
Туре	O Pure	Mixture	Waste) O FL	IS if YES mus	d ha la naun	ds ()	Trade Sec	! :ret		
	,	- · · · · · · · · · · · · · · · · · · ·					_	yes *			
Physical State Fed. Hazard	O Solid	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Gas			loactive	Cui	L		`}	
Categories	• Fire	○ Reactive	O Pressure I	Release	Acui	te Health		Chronic Ho	ealth	-	
Units		Max Daily Amt	55	Largest	Container	55	GAL	LONS	(Units)		
● Gals ○	Cu Ft	Avg Daily Amt	20	State W	aste Code	221	****	S. Sandanata a Manada S. Sandara Sandara Sandara	,		
O Lbs O	Tons	Annual Waste Ami		Days Or	n Site	365	~~				
If extremely harzado	us substance	e, amount must be repo	orted in pounds	.!			17700				
Aboveground Underground Tank Inside I Steel Drum Plastic Nonn Can	d Tank Building	CarboySiloFiber DrumBagBoxCylinder	○ Plasti ○ Tote	Wagon Car							
Pressure Stora	ıge	Ambient	Above A		O Below	Ambient	A	, ,		mana a a a a a a a a a a a a a a a a a a	
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capturing the require		n COLLECTED INFO	DMATION!								
NFPA Informati		Health 1	Fire 2	Rea	ctive 0	Specia	al [
DOT Haz Class	CL	UN / NA	1270		DOT ER (Guide	128				
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Date Received	1		Review	ed By							
District			Date Re	eviewed		V - mail - mail mail - mail 4 4 mail - mail	Date	Imputed			

John & Beltian

2012 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Please check the change box and changes in the addresses below.	fill in the new addre	ess information in the l	ines provided if there are any
The second secon	IFORMATION IF THE	E ADDDESS ON THE L	12345678
PLEASE FILL IN THE ADDRESS IN	NFORWATION IF TH	E ADDRESS ON THE L	EFT IS BLANK.
Change Mailing A	ddress		RECEIVE
DEL TRAN CARRO			ENVIRONS CO
BELTRAN FARMS ATTN:			HESOURCE
701 FINK			688
CROWS LANDING C	A 95313		2021230
Site Address			
22061 DAVIS		1 × × ×	
CROWS LANDING C	A 95313	18 11	
Phone 209-837-4331			
*			
Owner Address			
Owner Name BELTRAN FA	ARMS	1 =	
22601 DAVIS			
CROWS LANDING	CA 9531	3	
Phone 209-892-2640	Cell		
			and the second second second
Billing Address			
Contact Name			A 1 ()
701 FINK			= 2
CROWS LANDING CA	A 95313		
The Emergency and Alternate Eme	ergency Coordinato	rs for your business ar	e listed below. Please review
and update if any changes have o			
Emergency Coordinator	Work Phone #	24 Hour Phone #	Pager/Cell Phone #
JOHN E. BELTRAN	209-837-4331	209-892-2640	209-604-7045
Alternate Emanuel Countington	West Phone #	OA Harm Dhana #	* ParariCall Phare #
Alternate Emergency Coordinator FRED E. BELTRAN	Work Phone # 209-837-0421	24 Hour Phone #	Pager/Cell Phone #
Business Email Address			
As an Owner/Operator or an Authorize	ed Representative. I c	ertify under penalty of lav	v that I have personally
examined and am familiar with the inf			
Table 1 Committee of the Second			
PRINT NAME		TITLE	
John E. BELTR	an	TREASURE	
SIGNATURE	X - 17	DATE	

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2012 CUPA Farm Inventory Certification Form

5329

District: 7

Business Plan

The Stanislaus County, Department of Environmental Resources, Hazardous Materials Division, as the Administering Agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, in lieu of a complete Hazardous Materials Business Plan (HMBP). The business must certify that a complete and current HMBP has been prepared and is maintained at the site where the hazardous materials are stored.

For chemical changes, check the change box and note any differences underneath the changed chemical. Include new chemicals by writing them below the existing list. For chemicals no longer stored at your facility check the change box and put a line through the chemical.

		I. CHEMICAL INVENTOR	Y		
Change	Stat	Common Name/Location	Max/Amount	UN#	NFPA
	=	PESTICIDES 200' EAST OF OFFICE	250 Cals 100	gal.	
- S	W	WST WASTE MOTOR OIL MIX PETROLIUM OIL SOUTH OF THE SHOP	55 Gals	1270	1-2-0-
		HYDRAULIC OIL SOUTH OF THE OFFICE	55 Gals	1270	0-1-0-
		GASOLINE (87 & 91) 100 FEET EAST OF THE OFFICE	500 Gals 250	1203	2-3-1-
		MOTOR OIL SOUTH OF OFFICE	55 Gals	1270	1-1-0-
		DIESEL FUEL (RED & CLEAR) 100 FEET EAST OF THE OFFICE	40000 Gal 500	1202	1-2-0-
		II. CERTIFICATION STATEM	IENT	Landa San S	
there h hazard that wo of eme include	ave been rous materious materiould require rgency constants.	TIFICATION WITHOUT CHANGES: This is to ce to significant changes in the business name or act al(s)/hazardous waste(s), personnel or operations a revision to the HMBP. The HMBP which includates, site plan, emergency response plan and alformation required in H&SC §25504 and §25509, als are stored.	ddress, quantities of any s, emergency contacts, o des the hazardous mate n employee training plan	previous or owner/ rials inve , is curre	sly handled operator entory, list ent and
		ON OF CHANCES/REVISIONS: This is to sortify	that the LIMPD has been		- J / L O C C

CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC §25505(c) and §25510) and all necessary changes/revisions have been made. Attached are the changes to the business name or address, hazardous materials inventory, contingency plan, emergency contacts and/or owner/operator identification. For chemical inventory additions, submit a new chemical inventory page and return with this certification. For site map revisions, submit only the pages that have a change or revision and return with this certification. The most current HMBP is being maintained at the site where the hazardous materials are being stored.

As an Owner/Operator or an Authorized Representative, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. By signing this form I also certify that: a) All the information contained within this submission is complete, accurate and up to date; b) All hazardous materials subject to the inventory requirements are listed on the most recently submitted inventory; c) The facility has not begun handling any hazardous material(s)/hazardous waste(s) in reportable quantities that are not listed in the HMBP inventory.

PRINT NAME

JOHN E. BELTRAN

TREASURF

2012 CUPA Farm Inventory Certification Form

ID#: 5329

District: 7

SIGNATURE

DATE

John & Beltino

10-5-2011

2011 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Please check the change box and fill in the new address information in the lines provided if there are any changes in the addresses below.

PLEASE FILL IN THE ADDRESS INFORMATION IF THE ADDRESS ON THE LEFT IS BLANK.

Change Mailing Ad	dress		
BELTRAN FARMS ATTN: 701 FINK CROWS LANDING CA	95313		
Site Address 22061 DAVIS CROWS LANDING CA Phone 209-837-4331	95313		NOV 20
Owner Address Owner Name BELTRAN FAF 22601 DAVIS CROWS LANDING Phone 209-892-2640	CA 95313		Stanislaus Go. Popt of Environmental Resources
Billing Address Contact Name 701 FINK CROWS LANDING CA	95313		
The Emergency and Alternate Emer and update if any changes have occ Emergency Coordinator JOHN E. BELTRAN Alternate Emergency Coordinator FRED E. BELTRAN Business Email Address			
As an Owner/Operator or an Authorized examined and am familiar with the information			
John E. BETRALI PRINT NAME SIGNATURE SIGNATURE	7	PALASURE TITLE 1-8-10 DATE	

Stalio

2011 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Business Plan

The Stanislaus County, Department of Environmental Resources, Hazardous Materials Division, as the Administering Agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, in lieu of a complete Hazardous Materials Business Plan (HMBP). The business must certify that a complete and current HMBP has been prepared and is maintained at the site where the hazardous materials are stored.

For chemical changes, check the change box and note any differences underneath the changed chemical. Include new chemicals by writing them below the existing list. For chemicals no longer stored at your facility check the change box and put a line through the chemical.

A CONTRACTOR OF THE PARTY OF TH		I. CHEMICAL INVENTOR				
hange	Stat	Common Name/Location	N	lax/Amount	UN#	NFPA
		PESTICIDES 200' EAST OF OFFICE		250 Gals		
	W	wst WASTE OIL, MIXED PETROLEUM OIL SOUTH OF THE SHOP		55 Gals	1270	1-1-0-
		HYDRAULIC OIL SOUTH OF THE OFFICE		55 Gals	1270	0-1-0-
		GASOLINE (RU) (U+) (P) 100 FEET EAST OF THE OFFICE	500	1000 Gals	1203	2-3-1-
		MOTOR OIL SOUTH OF OFFICE		55 Gals	1270	0-1-0-
		DIESEL 100 FEET EAST OF THE OFFICE	æ	10000 Gal	1202	1-2-0-
		II. CERTIFICATION STATE	WENT			
		d includes all the information required in H&SC hazardous materials are stored.	§25504 a	nd §25509, ar	nd is maint	ained at
© CEI §2550 the bus	5(c) and §2 siness nam	ON OF CHANGES/REVISIONS: This is to certife 25510) and all necessary changes/revisions have or address, hazardous materials inventory, coentification. For chemical inventory additions, si	e been m ntingency	ade. Attached plan, emerge	d are the ch ncy contac	nanges t ets and/c
§2550 the bus owner/ return	5(c) and §2 siness nam operator id with this ce	ON OF CHANGES/REVISIONS: This is to certify 25510) and all necessary changes/revisions have or address, hazardous materials inventory, coentification. For chemical inventory additions, surtification. For site map revisions, submit only the trification. The most current HMBP is being manager.	e been m ntingency ubmit a ne ne pages	ade. Attached plan, emerge w chemical ir that have a ch	d are the che ncy contact eventory pa ange or re	nanges t ets and/c age and vision ar

John E. BELTRAN

TREASURE

PRINT NAME

TITLE

H 11/9/10

2011 CUPA Farm Inventory Certification Form

ID#: 5329

District: 7

SIGNATURE

John & Better

DATE

11-8-10



2010 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Please check the change box and fill in the new address information in the lines provided if there are any changes in the addresses below.

PLEASE FILL IN THE ADDRESS INFORMATION IF THE ADDRESS ON THE LEFT IS BLANK.

BELTRAN FARMS	•		
ATTN			
701 FINK			0
CROWS LANDING	CA 95313		
Site Address			
22061 DAVIS			
CROWS LANDING	CA 95313		
Phone 209-837-4331			1
	4		
Owner Address			
Owner Name BELTRA	N FARMS		0400
22601 DAVIS		(4)	22324.25262
CROWS LANDING	CA 9531	3	200
Phone 209-892-2640	Cell	167	38
		718	MOV 2009
Billing Address		11216171	NOV 2005 RECEIVED RESIGNATION Performed Supplied Received Re
Contact Name		1	NOV 2005 RECEIVED RECEIVED RECOMMENT REC
Contact Name 701 FINK		1	NOV 2005 RECEIVED PROPORTION
Contact Name 701 FINK CROWS LANDING	CA 95313	TJOURNAL	RECEIVED RESOURCE CO. Personnell
Contact Name 701 FINK CROWS LANDING The Emergency and Altern	ate Emergency Coordin	ator for your business	RECEIVED RESOURCE CO. Personnell
Contact Name 701 FINK CROWS LANDING The Emergency and Alterneview and update if any contact Name	ate Emergency Coordin	ator for your business	RECEIVED RESOURCE AND ADDRESS ARE listed below. Please
Contact Name 701 FINK CROWS LANDING The Emergency and Altern review and update if any continuator	ate Emergency Coordin hanges have occurred.	ator for your business	s are listed below. Please se write in the information.
Contact Name 701 FINK CROWS LANDING The Emergency and Altern review and update if any continuator OHN E. BELTRAN	tate Emergency Coordin hanges have occurred. Work Phone # 209-837-4331	ator for your business If either is blank, please 24 Hour Phone # 209-892-2640	s are listed below. Please se write in the information. Pager/Cell Phone # 209-604-7045
Contact Name 701 FINK CROWS LANDING The Emergency and Altern review and update if any c Emergency Coordinator OHN E. BELTRAN	tate Emergency Coordin hanges have occurred. Work Phone # 209-837-4331	ator for your business If either is blank, pleas	s are listed below. Please se write in the information. Pager/Cell Phone #
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Contact Name 701 FINK CROWS LANDING The Emergency and Altern review and update if any c Emergency Coordinator IOHN E. BELTRAN Alternate Emergency Coordinator RED E. BELTRAN Business Email Address	work Phone # 209-837-0421	ator for your business If either is blank, pleas 24 Hour Phone # 209-892-2640 24 Hour Phone #	s are listed below. Please se write in the information. Pager/Cell Phone # 209-604-7045 Pager/Cell Phone #
Contact Name 701 FINK CROWS LANDING The Emergency and Altern review and update if any compared to the second secon	work Phone # 209-837-0421 Mork Phone # 209-837-0421	ator for your business If either is blank, pleas 24 Hour Phone # 209-892-2640 24 Hour Phone #	s are listed below. Please se write in the information. Pager/Cell Phone # 209-604-7045 Pager/Cell Phone #
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2010 CUPA Farm Inventory Certification Form

ID#: 5329

District: 7

Business Plan

Only list hazardous materials in quantities equal to or greater than 55 gallons, 500 lbs., or 200 cu.ft. Check the 'Change' box and note any differences underneath for each material that has changed. Include new hazardous materials by writing them in below the existing list. Cross out any hazardous materials that are no longer stored at your facility.

PLEASE SIGN BELOW AND RETURN IN THE ENCLOSED ENVELOPE.

Change	Stat	Common Name/Location	Max/Amount	UN#	NFPA
	a	PESTICIDES 200' EAST OF OFFICE	250 Gals		
	W	wst WASTE OIL, MIXED PETROLEUM OIL SOUTH OF THE SHOP	55 Gals	1270	1-1-0-
		HYDRAULIC OIL SOUTH OF THE OFFICE	55 Gals	1270	0-1-0-
		GASOLINE (RU) (U+) (P) 100 FEET EAST OF THE OFFICE	1000 Gals	1203	2-3-1-
		MOTOR OIL SOUTH OF OFFICE	55 Gals	1270	0-1-0-
		DIESEL 100 FEET EAST OF THE OFFICE	10000 Gal	1202	1-2-0-

2010 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Certification: Check the appropriate box:							
I have personally reviewed the Hazardous M certify, under penalty of perjury, that:	laterials Plan (HMP) currently on file and hereby						
 the information contained in the most re- to date, 	cent HMP submission is complete, accurate and up						
	and a state of the						
there have been no significant changes	 there have been no significant changes (100% increase or decrease) in the quantities of any previously reported hazardous materials/hazardous wastes as shown on current Hazardous 						
 the facility has not begun handling any hazardous materials/hazardous wastes in reportable quantities that are not currently listed in the submitted Hazardous Materials Inventory, and there have been no significant changes in the facility's personnel or operations that would require revision of the current HMP. 							
☐ HMP revisions, amendments or additions are document. Please check the following areas							
Entire HMP revision Consolidated Contingency Plan Hazardous Materials Inventory	Site Map Owner/Operator Identification Page Other (Specify):						
operations (closure, addition of undisclosed report or significant changes to inventory quantities	es in address, ownership, business name, or ortable hazardous materials or hazardous wastes, es and/or contingency planning provisions), a ardous Materials Division within 30 days of the						
BELTRAN Tarms	John & Beltran						
Name of Owner/Operator (Print):	Signature of Owner/Operator:						
ouren funcin	11-18-09						
Title:	Date:						

2009 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Please check the change box and fill in the new address information in the lines provided if there are any changes in the addresses below.

PLEASE FILL IN THE ADDRESS INFORMATION IF THE ADDRESS ON THE LEFT IS BLANK.

hange Mailing Address	
BELTRAN FARMS	
☐ 701 FINK☐ CROWS LANDING CA 95313	
Site Address	1
CROWS LANDING CA 95313 Phone 209-837-4331	
Owner Address	
Owner Name BELTRAN FARMS 22601 DAVIS CROWS LANDING CA 95313	
Phone 209-892-2640 Cell	
Billing Address Contact Name]
701 FINK CROWS LANDING CA 95313	
The Emergency and Alternate Emergency Coordinator review and update it any changes have occurred. If eit	her is blank, please write in the information.
JOHN E. BELTRAN 2009-837-4331	24 Hour Phone # Pager/Cell Phone # 209-892-2640 209-604-7045
Alternate Emergency Coordinator Work Phone # FRED E. BELTRAN 209-837-0421	24 Hour Phone # Pager/Cell Phone #
I, Owner/Operator or Representative, certify that the informat	ion submitted is true and accurate and that 4 15 16 2
inaccurate information constitutes perjury under the law.	TREASURE 600
Oh 5 Better	TITLE 60 10 10 10 10 10 10 10 10 10 10 10 10 10
SIGNATURE	DATE CONTRACTOR OF THE PROPERTY OF THE PROPERT

2009 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Business Plan

Only list hazardous materials in quantities equal to or greater than 55 gallons, 500 lbs., or 200 cu.ft. Check the 'Change' box and note any differences underneath for each material that has changed. Include new hazardous materials by writing them in below the existing list. Cross out any hazardous materials that are no longer stored at your facility.

PLEASE SIGN BELOW AND RETURN IN THE ENCLOSED ENVELOPE.

Change	Stat	Common Name/Location	Max/Amount	UN#	NFPA
	W	wst WASTE OIL, MIXED PETROLEUM OIL SOUTH OF THE SHOP	55 Gals	1270	1-2-0-
V		HYDRAULIC OIL EAST OF THE OFFICE South A	55 Gals	1270	0-1-0-
		GASOLINE (RU) (U+) (P) 100 FEET EAST OF THE OFFICE	1000 Gals	1203	2-3-0-
		MOTOR OIL EAST OF OFFICE South ()	55 Gals	1270	0-2-0-
		DIESEL 100 FEET EAST OF THE OFFICE	10000 Gal	1202	0-2-0-
		PESTICIDE STORAGE CONTRINER	250 gal		
	CC	200 PT LAST OF OFFICE	250 gal assorted p	asticide	Š

2009 CUPA Farm Inventory Certification Form

ID#: 5329

District: 7

Certification: Check the appropriate box:	
 to date, a copy of the facility's most current HMP identification Pages is being submitted wi there have been no significant changes (in previously reported hazardous materials/limited Materials Inventory Forms, the facility has not begun handling any had quantities that are not currently listed in the 	certify, <i>under penalty of perjury</i> , that: ent HMP submission is complete, accurate and up Business Activities and Owner/Operator
HMP revisions, amendments or additions are document. Please check the following areas	
Entire HMP revision Consolidated Contingency Plan Hazardous Materials Inventory	Site Map Owner/Operator Identification Page Other (Specify):
I understand that whenever there are change operations (closure, addition of undisclosed repo or significant changes to inventory quantities notification of such must be made to the Haza change. Betwan Farms	rtable hazardous materials or hazardous wastes, and/or contingency planning provisions), a
Name of Owner/Operator (Print):	Signature of Owner/Operator:
TREASURE Title:	10-16-08 Date:

2008 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Please check the change box and fill in the new address information in the lines provided if there are any changes in the addresses below.

ange	Mailing A	Address		EFT IS BLANK.
M-1843				© 0CT 20
BELTRAN	FARMS			Stanistaus Go.
ATTN	FINIZ		3 	Environmental Hesources
□ 701 □ CROWS L	FINK	CA 95313	X	\$293037
_ CROWS E	ANDING C	A 90010		
Site Add	ress			
22061 DAV	VIS			
CROWS LA		CA 95313		
Phone	209-837-4331			
Owner A	ddross			
Owner Nar		ARMS		
22601	DAVIS			
CROWS LA	ANDING	CA 95313		weeking of the state of the sta
Phone 209	9-892-2640	Cell		
Billing A Contact Na	1000 PATE TO THE TO THE PATE TO THE TO THE TO THE TO THE PATE TO THE PATE TO THE PATE TO THE TO THE T			
701	FINK			
CROWS L	ANDING C	CA 95313		
The Emergen	cy and Alternate odate if any chan	Emergency Coordinate ges have occurred. If	or for your business either is blank, pleas	are listed below. Please se write in the information.
eview and up				
the wild the second party of the first	rdinator	Work Phone#	24 Hour Phone #	Pager/Cell Phone #
Emergency Coo		Work Phone # 209-837-4331	24 Hour Phone # 209-892-2640	Pager/Cell Phone # 209-604-7045
Emergency Coo JOHN E. BELTRA	AN ency Coordinator			Section (Approximation of the Control of the Contro
Emergency Coo IOHN E. BELTRA Alternate Emerge FRED E. BELTRA	AN ency Coordinator AN	209-837-4331 Work Phone # 209-837-0421	209-892-2640 24 Hour Phone #	209-604-7045
Emergency Coo JOHN E. BELTRA Alternate Emerge FRED E. BELTRA Business Email A	AN ency Coordinator AN Address tor or Representat	209-837-4331 Work Phone #	209-892-2640 24 Hour Phone #	209-604-7045 Pager/Cell Phone #
Emergency Coo OHN E. BELTRA Alternate Emerge RED E. BELTRA Business Email A	AN Andress	Work Phone # 209-837-0421 Work Phone # 209-837-0421 Work Phone # 209-837-0421 Work Phone # 209-837-4331	209-892-2640 24 Hour Phone #	209-604-7045 Pager/Cell Phone # ue and accurate and that
Emergency Coo JOHN E. BELTRA Alternate Emerge FRED E. BELTRA Business Email A	Address beatter or Representation constitute	Work Phone # 209-837-0421 Work Phone # 209-837-0421 Work Phone # 209-837-0421 Work Phone # 209-837-4331	209-892-2640 24 Hour Phone #	209-604-7045 Pager/Cell Phone # ue and accurate and that
Emergency Coo JOHN E. BELTRA Alternate Emerge FRED E. BELTRA Business Email A	Address beatter or Representation constitute	Work Phone # 209-837-0421 Wark Phone # 209-837-0421 Wark Phone # 209-837-0421 Work Phone # 209-837-4331 Work Phone # 209-837-4331 Wark Phone # 209-837-4331	209-892-2640 24 Hour Phone #	209-604-7045 Pager/Cell Phone # ue and accurate and that / mg r TITLE



2008 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Business Plan

Only list hazardous materials in quantities equal to or greater than 55 gallons, 500 lbs., or 200 cu.ft. Check the 'Change' box and note any differences underneath for each material that has changed. Include new hazardous materials by writing them in below the existing list. Cross out any hazardous materials that are no longer stored at your facility.

PLEASE SIGN BELOW AND RETURN IN THE ENCLOSED ENVELOPE.

Change	Stat	Common Name/Location	Max/Amount	UN#	NFPA
	W	WST WASTE OIL, MIXED PETROLEUM OIL SOUTH OF THE SHOP	55 Gals	1270	1-2-0-
		HYDRAULIC OIL EAST OF THE OFFICE	55 Gals	1270	0-1-0-
		GASOLINE (RU) (U+) (P) 100 FEET EAST OF THE OFFICE	1000 Gals	1203	2-3-0-
		MOTOR OIL EAST OF OFFICE	55 Gals	1270	0-2-0-
		DIESEL 100 FEET EAST OF THE OFFICE	10000 Gal	1202	0-2-0-

2008 CUPA Farm Inventory Certification Form

ID#: 5329

District: 7

Certification: Check the appropriate box:				
 I have personally reviewed the Hazardous Materials Plan (HMP) currently on file with your agency, dated 10-8-07, and hereby certify, under penalty of perjury, that: the information contained in the most recent HMP submission is complete, accurate and up to date, a copy of the facility's most current HMP Business Activities and Owner/Operator identification Pages is being submitted with this certification form, there have been no significant changes (100% increase or decrease) in the quantities of any previously reported hazardous materials/hazardous wastes as shown on current Hazardous Materials Inventory Forms, the facility has not begun handling any hazardous materials/hazardous wastes in reportable quantities that are not currently listed in the submitted Hazardous Materials Inventory, and there have been no significant changes in the facility's personnel or operations that would require revision of the current HMP. 				
☐ HMP revisions, amendments or additions are document. Please check the following areas				
Entire HMP revision Consolidated Contingency Plan Hazardous Materials Inventory	Site Map Owner/Operator Identification Page Other (Specify):			
I understand that whenever there are changes in address, ownership, business name, or operations (closure, addition of undisclosed reportable hazardous materials or hazardous wastes, or significant changes to inventory quantities and/or contingency planning provisions), a notification of such must be made to the Hazardous Materials Division within 30 days of the change.				
Name of Owner/Operator (Print):	Veno: Core			
	Signature of Owner/Operator:			
owner/MGR	10-12-07			
Title:	Date:			

2006 CUPA Farm Inventory Certification Form

ID #:

District: 7

Please check the change box and fill in the new address information in the lines provided if there are any changes in the addresses below.

PLEASE FILL IN THE ADDRESS INFORMATION IF THE ADDRESS ON THE LEFT IS BLANK.

han	ge Mailin	g Ad	dress				
	BELTRAN FARMS ATTN 701 FINK CROWS LANDING	CA	95313	3			
	Site Address 22061 DAVIS CROWS LANDING Phone 209-837-4331	CA	95313	engelon 1524 :	Lynchen Lynchen		of the Secretary services
	Owner Address Owner Name BELTRAM 22601 DAVIS CROWS LANDING Phone 209-892-2640	I FAR		95313			3
	Billing Address Contact Name 701 FINK CROWS LANDING		95313	Nudio 4 au			alow Plagas
rev	e Emergency and Alterna view and update if any ch		s have occurr		ther is blank, pl	ease write in th	e information.
	nergency Coordinator HN E. BELTRAN		Work Phone # 209-837-4331		24 Hour Phone # 209-892-2640	<u>Pager/Cell</u> 209-604-7	M arine de la company (8)
Alte	ernate Emergency Coordinator ED E. BELTRAN		Work Phone # 209-837-0421		24 Hour Phone #	Pager/Cell	
I, C	Dwner/Operator or Represer ccurate information constit	tative		e informa		true and accur	ate and that
	John E	. F	Beltran		A	1 1000 11	

12-04-06

DATE

2006 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Business Plan

Only list hazardous materials in quantities equal to or greater than 55 gallons, 500 lbs., or 200 cu.ft. Check the 'Change' box and note any differences underneath for each material that has changed. Include new hazardous materials by writing them in below the existing list. Cross out any hazardous materials that are no longer stored at your facility.

PLEASE SIGN BELOW AND RETURN IN THE ENCLOSED ENVELOPE.

Change	Stat	Common Name/Location	Max/Amount	UN#	NFPA
	W	wst WASTE OIL, MIXED PETROLEUM OIL SOUTH OF THE SHOP	55 Gals	1270	1-2-0
		HYDRAULIC OIL EAST OF THE OFFICE	55 Gals	1270	0-1-0
		GASOLINE (RU) (U+) (P) 100 FEET EAST OF THE OFFICE	1000 Gals	1203	2-3-0
		MOTOR OIL EAST OF OFFICE	55 Gals	1270	0-2-0
		DIESEL 100 FEET EAST OF THE OFFICE	10000 Gal	1202	0-2-0

2006 CUPA Farm Inventory Certification Form

D#: 5329

District: 7

Certification: Check the appropriate box:				
 I have personally reviewed the Hazardous Materials Plan (HMP) currently on file with your agency, dated 12-4-06, and hereby certify, under penalty of perjury, that: the information contained in the most recent HMP submission is complete, accurate and up to date, a copy of the facility's most current HMP Business Activities and Owner/Operator identification Pages is being submitted with this certification form, there have been no significant changes (100% increase or decrease) in the quantities of any previously reported hazardous materials/hazardous wastes as shown on current Hazardous Materials Inventory Forms, the facility has not begun handling any hazardous materials/hazardous wastes in reportable quantities that are not currently listed in the submitted Hazardous Materials Inventory, and there have been no significant changes in the facility's personnel or operations that would require revision of the current HMP. 				
☐ HMP revisions, amendments or additions document. Please check the following ar	are necessary and are being submitted with this eas of the HMP that are affected:			
Entire HMP revision Consolidated Contingency Plan Hazardous Materials Inventory	Site Map Owner/Operator Identification Page Other (Specify):			
I understand that whenever there are changes in address, ownership, business name, or operations (closure, addition of undisclosed reportable hazardous materials or hazardous wastes, or significant changes to inventory quantities and/or contingency planning provisions), a notification of such must be made to the Hazardous Materials Division within 30 days of the change. John E Beltran John E Beltran				
Name of Owner/Operator (Print):	Signature of Owner/Operator:			
owner / myr Title:	12 - 4 - 06 Date:			
and the second s				

2005 CUPA Farm Inventory Certification Form

District: 7

Please check the change box and fill in the new address information in the lines provided if there are any changes in the addresses below.

PLEASE FILL IN THE ADDRESS INFORMATION IF THE ADDRESS ON THE LEFT IS BLANK.

	ing Address	
BELTRAN FARMS ATTN 701 FINK		
Site Address	CA 95313	9
22061 DAVIS		
CROWS LANDING Phone 209-837-433	CA 95313 31	
Owner Address		
Owner Name BELTR	AN FARMS	
22601 DAVIS	- 4	
CROWS LANDING	CA 95313	
Phone 209-892-2640	Cell	
		your business are listed below. Please
review and update if any Emergency Coordinator		is blank, please write in the information.
JOHN E. BELTRAN		9-892-2640 209-604-7045
Alternate Emergency Coordinat	<u>Work Phone #</u> 24 H 209-837-0421	lour Phone # Pager/Cell Phone #
FRED E. BELTRAN		
FRED E. BELTRAN Business Email Address		<u> </u>
FRED E. BELTRAN Business Email Address I, Owner/Operator or Repres	entative, certify that the information s	submitted is true and accurate and that
Business Email Address I, Owner/Operator or Represinaccurate information cons	titutes perjury under the law.	
FRED E. BELTRAN Business Email Address I, Owner/Operator or Repres	titutes perjury under the law.	witted is true and accurate and that MGR / OWNER TITLE
Business Email Address I, Owner/Operator or Represinaccurate information cons	E BELTRAN	MER/OWNER TITLE
Business Email Address I, Owner/Operator or Represinaccurate information cons	E BELTRAN	MER/OWNER
Business Email Address I, Owner/Operator or Represinaccurate information cons	E BELTRAN PRINT NAME Buttan SIGNATURE	MER/OWNER TITLE 11-7-05

2005 CUPA Farm Inventory Certification Form

ID#: 5329

District: 7

Certification: Check the appropriate box:	
 I have personally reviewed the Hazardous Materials Plan (HMP) currently on file with your agency, dated n - 2 - 2 , and hereby certify, under penalty of perjury, that: the information contained in the most recent HMP submission is complete, accurate and up to date, a copy of the facility's most current HMP Business Activities and Owner/Operator identification Pages is being submitted with this certification form, there have been no significant changes (100% increase or decrease) in the quantities of any previously reported hazardous materials/hazardous wastes as shown on current Hazardous Materials Inventory Forms, the facility has not begun handling any hazardous materials/hazardous wastes in reportable quantities that are not currently listed in the submitted Hazardous Materials Inventory, and there have been no significant changes in the facility's personnel or operations that would require revision of the current HMP. 	y S
☐ HMP revisions, amendments or additions are necessary and are being submitted with this document. Please check the following areas of the HMP that are affected:	
Entire HMP revision Consolidated Contingency Plan Hazardous Materials Inventory Site Map Owner/Operator Identification Page Other (Specify):	
understand that whenever there are changes in address, ownership, business name, operations (closure, addition of undisclosed reportable hazardous materials or hazardous waste or significant changes to inventory quantities and/or contingency planning provisions), notification of such must be made to the Hazardous Materials Division within 30 days of the change.	es, a
Name of Owner/Operator (Print): Signature of Owner/Operator:	-
men/owner 11-7-05	
Title: Date:	

2005 CUPA Farm Inventory Certification Form

ID #: 5329

District: 7

Business Plan

Only list hazardous materials in quantities equal to or greater than 55 gallons, 500 lbs., or 200 cu.ft. Check the 'Change' box and note any differences underneath for each material that has changed. Include new hazardous materials by writing them in below the existing list. Cross out any hazardous materials that are no longer stored at your facility.

PLEASE SIGN BELOW AND RETURN IN THE ENCLOSED ENVELOPE.

Change	Stat	Common Name/Location	Max/Amount	UN#	NFPA
	W	wst WASTE OIL, MIXED PETROLEUM OIL SOUTH OF THE SHOP	55 Gals	1270	1-2-0
		HYDRAULIC OIL EAST OF THE OFFICE	55 Gals	1270	0-1-0
		GASOLINE (RU) (U+) (P) 100 FEET EAST OF THE OFFICE	1000 Gals	1203	2-3-0
		MOTOR OIL EAST OF OFFICE	55 Gals	1270	0-2-0
		DIESEL FUEL NO.2 100 FEET EAST OF THE OFFICE	10000 Gal	1202	0-2-0

2004 Hazardous Materials Farm Plan Inventory Certification Form

Mailing Address					Site Address					
BELTRAN FARMS 701 FINK ROAD CROWS LANDING 209-837-4331			2	22061 DAVIS CROWS LANDING			C.A	A 95313		
Only	list cher	micals in quantities	s equal to or greate	r than 55 gallons, 50	00 lbs	., or 2	00 cu.ft			
Stat	DER ID	Common Name/Loca	tion	Max o	n Site	DOT	UN/NA I	NFPA		
	5	DIESEL FUEL NO.2 100 FEET EAST OF	THE OFFICE	1000	0 GA	128	1202	0-2-0-	•	
	22	GASOLINE (RU) (U+ 100 FEET EAST OF		1000	GAL	128	1203	2-3-0-		
	27	HYDRAULIC OIL EAST OF THE OFFIC	DE	55 G	AL	128	1270	0-1-0-		
	6	MOTOR OIL EAST OF OFFICE		55 G	AL	128	1270	0-2-0-		
W	80	wst WASTE OIL, MIX SOUTH OF THE SHO	ED PETROLEUM OIL P	55 G	AL	128	1270	1-2-0-		
Check	appropria	ate box:								
	,	complete, accurate	and up to date.	above chemicals listed				5		
		No longer have ch pounds.	emicals in quantities a	t or above 55 gallons, 2	200 cu	. ft., or	500			
		Changed informati changes.	on on form by drawir	ng line through inform	nation	and w	rote in t	he		
The E	mergen te if any	cy and Alternate E changes have occ	mergency Coordina urred.	tor for your busine	ss are	liste	d below.	. Please i	eview and	
owerstrame	ency Coor E. BELTRA		Work Phone # 209-837-4331	24 Hour Phone #		Pager l	Phone #	60000	ECD ON	

I Owner/Operator or Representative certify that the information submitted is true and accurate and that inaccurate information constitutes perjury under the law.

NAME

TITLE

Sorted by Facility ID

2004 CUPA Farm Inventory Certification Form

ID #: 5329

District: 5

Please check the change box and fill in the new address information in the lines provided if there are any changes in the addresses below.

PLEASE FILL IN THE ADDRESS INFORMATION IF THE ADDRESS ON THE LEFT IS BLANK.

Change Mailing Address	
BELTRAN FARMS ATTN 701 FINK CROWS LANDING CA 95313	
Site Address	
Owner Address Owner Name BELTRAN FARMS 22601 DAVIS CROWS LANDING CA 953 Phone 209-892-2640 Cell	RECEIVED
Billing Address Contact Name 701 FINK	DEC 10 2004 STANISLAUS COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES
	inator for your business are listed below. Please . If either is blank, please write in the information.
Emergency Coordinator JOHN E. BELTRAN Alternate Emergency Coordinator PRED E. BELTRAN Work Phone # (209.) 837-042	24 Hour Phone # (209) 892 2640 Pager/Cell Phone # (209) 604-7045 Pager/Cell Phone #
I, Owner/Operator or Representative, certify that the in inaccurate information constitutes perjury under the l	nformation submitted is true and accurate and that
John E. Beltvan PRINT NAME Om & Beltien SIGNATURE	mGR. TITLE 12-9-04 DATE

12/15/04

2004 CUPA Farm Inventory Certification Form

ID #: 5329

District: 5

Business Plan

Only list hazardous materials in quantities equal to or greater than 55 gallons, 500 lbs., or 200 cu.ft. Check the 'Change' box and note any differences underneath for each material that has changed. Include new hazardous materials by writing them in below the existing list. Cross out any hazardous materials that are no longer stored at your facility.

PLEASE SIGN BELOW AND RETURN IN THE ENCLOSED ENVELOPE.

Change	Stat	Common Name/Location	Max/Amount	UN#	NFPA
	W	wst WASTE OIL, MIXED PETROLEUM OIL SOUTH OF THE SHOP	55 Gals	1270	1-2-0
		HYDRAULIC OIL EAST OF THE OFFICE	55 Gals	1270	0-1-0
		GASOLINE (RU) (U+) (P) 100 FEET EAST OF THE OFFICE	1000 Gals	1203	2-3-0
		MOTOR OIL EAST OF OFFICE	55 Gals	1270	0-2-0
		DIESEL FUEL NO.2 100 FEET EAST OF THE OFFICE	10000 Gal	1202	0-2-0



DEC 10 2004

STANISLAUS COUNTY
DEPARTMENT OF
ENVIRONMENTAL RESOURCES

Title:

2004 CUPA Farm Inventory Certification Form

ID #: 5329

District: 5

Certification: Check the appropriate box:						
 I have personally reviewed the Hazardous Materials Plan (HMP) currently on file with your agency, dated 12- ∞1/ ∞4 , and hereby certify, under penalty of perjury, that: the information contained in the most recent HMP submission is complete, accurate and up to date, a copy of the facility's most current HMP Business Activities and Owner/Operator identification Pages is being submitted with this certification form, there have been no significant changes (100% increase or decrease) in the quantities of any previously reported hazardous materials/hazardous wastes as shown on current Hazardous Materials Inventory Forms, the facility has not begun handling any hazardous materials/hazardous wastes in reportable quantities that are not currently listed in the submitted Hazardous Materials Inventory, and there have been no significant changes in the facility's personnel or operations that would 						
require revision of the current HMP.						
HMP revisions, amendments or additions as document. Please check the following area	re necessary and are being submitted with this is of the HMP that are affected:					
Entire HMP revision Consolidated Contingency Plan Hazardous Materials Inventory	Site Map Owner/Operator Identification Page Other (Specify):					
operations (closure, addition of undisclosed repor significant changes to inventory quantition of such must be made to the Hazchange.	ges in address, ownership, business name, or cortable hazardous materials or hazardous wastes, es and/or contingency planning provisions), a cardous Materials Division within 30 days of the					
John E Beltran	In & Beltier					
Name of Owner/Operator (Print):	Signature of Owner/Operator:					
/	12 nd nd					



Date:

DEC 10 2004

STANISLAUS COUNTY
DEPARTMENT OF
ENVIRONMENTAL RESOURCES

2003 Hazardous Materials Farm Plan Inventory Certification Form



Mailing Address

Site Address

BELTRAN FARMS

701 FINK ROAD

CROWS LANDING 209-837-4331

CA 95313

5329

22601 DAVIS

CROWS LANDING

95313

Only list chemicals in quantities equal to or greater than 55 gallons, 500 lbs., or 200 cu.ft.

Stat	Stat DER ID Common Name/Location		Max on Site	DOT	UN/NA NI	FPA
	5	DIESEL FUEL NO.2 100 FEET EAST OF THE OFFICE	10000 GA	128	1202	0-2-0-
	22	GASOLINE (RU) (U+) (P) 100 FEET EAST OF THE OFFICE	1000 GAL	128	1203	2-3-0-
	27	HYDRAULIC OIL EAST OF THE OFFICE	55 GAL	128	1270	0-1-0-
	6	MOTOR OIL EAST OF OFFICE	55 GAL	128	1270	0-2-0-
W	80	wst WASTE OIL, MIXED PETROLEUM OIL SOUTH OF THE SHOP	55 GAL	128	1270	1-2-0-

Check appropriate box	X
-----------------------	---

No changes made with the amount of the above chemicals listed and the information is complete, accurate and up to date.

☐ No longer have chemicals in quantities at or above 55 gallons, 200 cu. ft., or 500 pounds.

Changed information on form by drawing line through information and wrote in the changes.

The Emergency and Alternate Emergency Coordinator for your business are listed below. Please review and update if any changes have occurred.

Emergency Coordinator

JOHN E. BELTRAN

Work Phone # 209-837-4331

24 Hour Phone #

Pager Phone #

I Owner/Operator or Representative certify that the information submitted is true and accurate and that inaccurate information constitutes perjury under the law.

Sorted by Facility ID

2003 Hazardous Materials Farm Plan Inventory Certification Form

SIGNATURE	DATE

2002 Hazardous Materials Farm Plan Inventory Certification Form

·		Mailing Ad	ldress			s	ite Ad	dress		
BELTRAN FARMS 701 FINK ROAD CROWS LANDING CA 95313 209-837-4331					ID# 5329 22601 DAVIS CROWS LANDING				CA	95313
Onl	y list che	micals in quantities	s equal to or grea	ter than 55 gallo	ns, 500 lb	s., or	200 cu.	ft.	***********	1 2 1 2
Stat	DER ID	Common Name/Location	on		Max on Site	DOT	UN/NA	NFPA		
	5	DIESEL FUEL NO.2 100 FEET EAST OF T	HE OFFICE		10000 GA	128	1202	0-2-0		
	22	GASOLINE (RU) (U+) 100 FEET EAST OF T			1000 GAL	128	1203	2-3-0		
	27	HYDRAULIC OIL EAST OF THE OFFIC	E		55 GAL	128	1270	0-1-0		
	6	MOTOR OIL EAST OF OFFICE			55 GAL	128	1270	0-2-0		
W	80	wst WASTE OIL, MIXE SOUTH OF THE SHO			55 GAL	128	1270	1-2-0		
Chec	k appropri	ate box:						v		
	[No changes made complete, accurate		ne above chemicals	listed and	the info	rmation i	s	s.	
]	☐ No longer have che pounds.	emicals in quantities	at or above 55 gal	lons, 200 cu	u. ft., or	500			
	[☐ Changed information changes.	on on form by draw	wing line through	information	and v	vrote in	the		
		ncy and Alternate E changes have occ		inator for your b	usiness a	ıre list	ed belo	w. Ple	ease r	eview and
				24 Hour Phoi 209 892 26			Phone#	7045		

I Owner/Operator or Representative certify that the information submitted is true and accurate and that inaccurate information constitutes perjury under the law.

NAME

TITLE

Sorted by Name



2002 Hazardous Materials Farm Plan Inventory Certification Form

SIGNATURE	DATE

Page: 1 Document Name: SLSSION1

STANISLAUS COUNTY PROPERTY AND TAX SYSTEM AR01911

LIEN YR: 2002 * * * PUBLIC INQUIRY * * *

APN: 027 07 04 OWNER: 152528 SEC/UNSEC: S USE CD: 111 TAXCODE A: 083 05

NAME....: BELTRAN FRED JR TRS

--- LOCATION ADDRESS OF PROPERTY -

SPOUSE..: ROSE ADELENE BELTRAN

701 FINK RD

MAILADDR: 701 FINK RD

CROWS LANDING

CROWS LANDING, CA 95313-0000

CO PF: BELTRAN 94 TRUST

+---- VALUE ----+ +--- PENALTY ----+ +--- EXEMPTION ---+ +-ROLL VALUE-

LAND.: 5,797 IMPV.:

7,000- (VAL + PENLTY HOMEOWN

PERS.:

68,865

EXEMPTION

74,662 TOTAL .: TOTAL:

TOTAL..:

7,000-

67,662

AR0191

MULTI-SITUS: N

----- TRANSFER HISTORY ------

TRAN CD RECORDED

===========

DEED NO SIGNED

STAMP VALUE

AS OF 07/01/2002

49728 04/08/1994 05/18/1994

TX

PF:3=END 5=REFRSH 7=UP 8=DOWN 12=INQ 17=PROP DETAIL 19=PREV 20=NEXT INQUIRY COMPLETE (8016)

HOME

Date: 9/12/2001 Time: 03:15:53 PM

Parcel Information Port --- Custom Option

APN: 027-07-04

OWNERS NAME: Fred Jr Beltran

SITE or STREET ADDRESS: 701 Fink Rd

CROWS LANDING, CA 95313

MAILING ADDRESS: 701 FINK RD

CROWS LANDING, CA 95313

ASSEMBLY DISTRICT: 26

BUILDING INSPECTION AREA: COUNTY ZONE 3

COMMUNITY SERVICE DISTRICT: CROWS LANDING CSD

DISPOSAL DISTRICT: BERTOLOTTI DISPOSAL MANDATORY

ELEMENTARY SCHOOL DISTRICT: NEWMAN-CROWS LANDING UNIFIED

FARMLAND DESIGNATION: UNSURVEYED AREA

FEMA ZONE: NOT IN FEMA FLOOD ZONE

FEMA PANAL: 0603840715C

FIRE DISTRICT: WEST STANISLAUS FIRE

HOSPITAL DISTRICT: DEL PUERTO

JURISDICTION: COUNTY

LIGHTING DISTRICT: CROWS LANDING

MOSQUITO ABATEMENT DISTRICT: TURLOCK MOSQUITO

MUNICIPAL ADVISORY COUNCIL: NOT WITHIN

SANITARY DISTRICT: NOT WITHIN

SPHERE OF INFLUENCE: NONE

SUPERVISORIAL DISTRICT: DISTRICT 5

SUPERVISOR: PAUL CARUSO

ZONING DESIGNATION (County): R-A

Parcel Information as of : 1/7/2000 3:55:14 AM

Rex 3.0 - Stanislaus County Public Works Department

^{*} Ownership and mailing address information subject to verification until further notice.

^{*} For questions/comments please contact the Public Works GIS Division.

hislaus County - Certified Unified Program Ancy **BUSINESS OWNER/OPERATOR IDENTIFICATION**

53337

					I. IDEN	TIFICA	TION								
ID# 532	29		Cal. Year Beg	gin/End	3/27/2002	3/2	6/2003								
Business 1	Name	BELTI	RAN FARM				and the second s		2185 Di	strict	6				
Addr (#, S	treet)	22601	D/	AVIS	d emiliga tatan mengan pengan terapa yang mengan pengan pengan pengan terapa mengan terapa mengan pengan pengan	indik jamaja magading jaja di	Suite	Pyto 10 1 co., trong 10	Business	s Phone	209-837-	-4331			
City		CROV	VS LANDIN	G	THE STATE OF THE S	and market and an extension of a	State	CA	Zip Code	e	95313				
Dun & Bra	dstreet	N/A		STANI	SLAUS	Unincorp	ortated [THE P	NAICS	Section 15	CFIR#	100			
Operator N	lame	JOHN	E. BELTRA	4N	n en men mar grupt zele i gren mar grant per el en en en en en en en en en en en en en	a aya meganera danan.	was between the or and greater	co-procedure, most on	Operator l	⊃hone	209-837-4	4331			
		State et and a second	Sections of High policy of Sections and Inch	AT STORE SHAPE OF STRATES	II. BUSIN	IESS O	WNFR	e terror a construction of			E transporter resonation	omente de son de entre proposition à souil			
Owner Nar	me B	ELTRAN	FARMS	emple, is a member to prove	an ero a como receso an ego region	n de esta la principio, rester	emmanys varanteerina avvis	***************************************	Phone	209-8	392-2640	75 .24 P.O. S			
Owner Add	dress 2	2601 DA\	VIS	e authorization are accessively e authorization are accessively	te i, gravi na rojekov, fezi zmjerina og vije sprej pri m Milo ma 1900. sejek, tek na rojek savetiček og ret	to the state of th	ren men en el en ren men en el en el Ren men en el en ren ren mere en el	en and an and an enter of the second	Constitution from the property of the property of the	Autoritation of the second of	e transic huguero conscito y curo porceiro en cra- se encontra grazio sistema el espera sistema esta esp	Cartesia and Cartesia			
City	C	ROWS LA	DWS LANDING State (CA)								Zip 95313				
				III.	ENVIRONN	IENTAL	CONTA	CT							
Contact Na	ame	JOHN E.	BELTRAN	Harris and the second of the s	eden tis uit en totat kens tins i treston, diskus en	ter tark att se onde nu enverage film	en ekenamagyan disin a kenulunyas	on the company	Phone	2098	37-4331	- The second sec			
Contact Ad	Idress		en en come en en en en en en en en en en en en en	e en en de la proposition dela proposition de la	recording to the second	The angle of the Control of Control of Control			er er en en en en en en en en en en en en en	o recorder de la appropria	ante a como transferio de la como	er en et le constitue en et et e			
City) 1	is per misses e in menerologie per elemente e in menerologie. Proprieta e información de la periol de la comunicación de la comunicación de la comunicación de la comunicación	en tradición (n. 1824) (n. 1824) (n. 1844) (n. 1844) en a artículos (n. 1824) (n. 1824) (n. 1845) (n. 1824) en a artículos (n. 1824) (n. 1824) (n. 1845) (n. 1824)	i turdi et et en en di et et e e e e e e e e e e e e e e e e	num ne od kruseljeno ne overene stali ve Podratan se da me Pantana (Kryse e Kryse)	antigram of the street of the	State	non tour assistance to or given above to or given above to or o	Zip	arme reconstruction	antere entre entre a companya de la br>Companya de la companya de la compa	remeter and			
	To	PAT OF THE SOURCE COME AND ASSESSMENT OF SOURCE	Cellan en 1920, Antonio 20-22 Ago	1\	. EMERGE	NCY C	ONTACT	'S	:1	No programme inc.					
	15,000.00 - 5.00.00	Contract of the delication the foreign for in-	Primary				JIIIAO I		Secon	dary					
Name	JOHN	E. BELTF	RAN	echen vita a cita a pine ana y ta e a	er an sûvê, pavatêre we presejen weze e er e		lame		egy to the section of the section of the	a amenda ji iya ili ami is	eder of the order of				
Title	Emerg	jency	and the second s	e glander von der Angeleine von der Kongresse von der Kongresse von	en en en en en en en en en en en en en e	٦	itle	en en en en en en en en en en en en en e	e non de commente de la commentación de la commenta						
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Date Rec'D

BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDENTIFICATION ID# 5329 Cal. Year Begin/End 2185 District 6 BELTRAN FARMS **Business Name** 22601 DAVIS **Business Phone** 209-837-4331 Addr (#, Street) Suite City **CROWS LANDING** CA Zip Code 95313 State **Dun & Bradstreet** STANISLAUS **NAICS** CFIR# 100 N/A Unincorportated 53 Operator Name JOHN E. BELTRAN Operator Phone 209-837-4331 **II. BUSINESS OWNER** Owner Name **BELTRAN FARMS** Phone 209-892-2640 Owner Address 22601 DAVIS CROWS LANDING 95313 City CA State III. ENVIRONMENTAL CONTACT Contact Name JOHN E. BELTRAN Phone 209837-4331 Contact Address Zip City State IV. EMERGENCY CONTACTS **Primary** Secondary Name Name JOHN E. BELTRAN Title Title Emergency **Business Phone Business Phone** 209-837-4331 24hr Phone 24hr Phone Pager# Pager# V. MAILING ADDRESS 701 FINK ROAD Address 95313 CROWS LANDING City State CA Zip VI. BILLING ADDRESS 701 FINK ROAD Address 95313 CROWS LANDING State CA Zip City VII. CERTIFICATION Certification: I certify under penality of law that I have personally examined and am familiar with the information submitted in this inventory and believe the information is true, accurate and complete. Name of Document Preparer Name of Signer Title Tax ID or Social Security # Signature of Owner/Operator or Designated Representative Date OFFICIAL USE ONLY lΗW ARP AST UST CUPA PΑ

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HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

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Stanislaus County - Certified Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

I. Facility Information BELTRAN FARMS DER ID 22 **Business Name** Chemical Location 100 FEET EAST OF THE OFFICE 5329 Facility ID Chemical Location Map# Grid# ☐ YES 🗹 NO Confidential EPCRA II. Chemical Information PETROLEUM HYDROCARBON Chemical Name Common Name GASOLINE (RU) (U+) (P) CAS# 8006-61-9 Fire Code Hazard Classes Type Pure Mixture Waste EHS if YES must be in pound Trade Secret Physical State Solid Liquid O Gas Radioactive Curies Fed. Hazard Fire Reactive O Pressure Release Acute Health Chronic Health Categories Max Daily Amt 1000 Largest Container 1000 **GALLONS** Units (Units) Gals ○ Cu Ft Avg Daily Amt 500 State Waste Code Tons Annual Waste Amt Days On Site 365 If extremely harzadous substance, amount must be reported in pound Storage Container Code - Check the Appropriate Box Below Aboveground Tank Carboy ○ Glass Bottle Underground Tank O Silo O Plastic Bottle Tank Inside Building O Fiber Drum O Tote Bin O Steel Drum O Bag Tank Wagon ○ Вох O Plastic Nonmetallic Drum Rail Car O Can Cylinder Other Pressure Storage Ambient Above Ambient Below Ambient Storage Temperature Ambient Above Ambient Below Ambient Cryogenic % Wt Hazardous Component **EHS** CAS# HYDROCARBONS W/A BP OF 70F-440F 89-94 0 0-11 METHYL TERTIARY-BUTYL ETHER 0 0-10 GASOLINE-GRADE TERTIARY-BUTYL ALCOHOL 0 0 If more harzardous comoponents are present at greater than 1% by weight if non carcinogenic, or 0.1% be weight of carcingenic attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION: NFPA Information Health Reactive Special **DOT Haz Class** UN / NA 1203 DOT ER Guide 128 if EPCRA. Please Sign Here OFFICIAL USE ONLY Date Received Reviewed By

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Stanislaus County - Certifled Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

CHEMICAL DESCRIPTION I. Facility Information **Business Name BELTRAN FARMS** DER ID 27 Chemical Location EAST OF THE OFFICE 5329 Facility ID Chemical Location Map# Grid# YES NO Confidential EPCRA II. Chemical Information Chemical Name PETROLEUM HYDROCARBON Common Name HYDRAULIC OIL CAS# 64742-65-0 Fire Code Hazard Classes C EHS if YES must be in pound Type O Pure Mixture Waste Trade Secret Physical State Solid ○ Gas Radioactive Liquid Curies Fed. Hazard Fire Reactive Pressure Release Acute Health Chronic Health Categories 55 Max Daily Amt Largest Container 55 **GALLONS** Units (Units) Gals ○ Cu Ft Avg Daily Amt 30 State Waste Code ○ Tons () Lbs Annual Waste Amt Days On Site 365 If extremely harzadous substance, amount must be reported in pound Storage Container Code - Check the Appropriate Box Below Aboveground Tank O Carboy O Glass Bottle Underground Tank O Silo Plastic Bottle Tank Inside Building O Fiber Drum Tote Bin Steel Drum O Bag ○ Tank Wagon O Plastic Nonmetallic Drum O Box Rail Car O Can Other Cylinder Pressure Storage Ambient Above Amblent Below Ambient Storage Temperature Ambient Above Ambient Cryogenic Below Ambient % Wt Hazardous Component **EHS** CAS# SOLVENT DEWAXED DISTILLATE 0 99 HVY PARAFINN 0 0 0 If more harzardous comoponents are present at greater than 1% by weight if non carcinogenic, or 0.1% be weight of carcingenic attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION: NFPA Information Health Reactive Special **DOT Haz Class** UN / NA 1270 DOT ER Guide 128

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Stanislaus County - Certified Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

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Stantslaus County - Certified Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

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laus County - Certified Unified Program Ag

	I. ID	ENTIFICATION
D# 5329	Cal. Year Begin/End	
Business Name	BELTRAN FARMS	2185 District 6
Addr (#, Street)	22601 DAVIS	Suite Business Phone 209-837-4331
City	CROWS LANDING	State CA Zip Code 95313
Oun & Bradstreet	N/A STANISLAUS	Unincorportated NAICS CFIR# 100
Operator Name	JOHN E. BELTRAN 	Operator Phone 209-837-4331
	II. BU	SINESS OWNER
Owner Name BI	ELTRAN FARMS	Phone 209-892-2640
Owner Address 2	2601DAVIS	
City C	ROWS LANDING	State CA Zip 95313
	III. ENVIRO	ONMENTAL CONTACT
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	VII. C	ERTIFICATION
		amined and am familiar with the information submitted in this inventory and

Signature of Owner/Operator or Designated Representative

Date

Tax ID or Social Security #

stanislaus County - Certified Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

I. Facility In	forma	ation									
Business Name	BELTRA	A (A CO) COO COO COO COO COO COO COO COO COO		alika (mmatus (sep. ga il) deskumusus, sep. g il nesara mmatus (sep. ga il) deskumusus, sep. g		DE	RID	5	4.000 (1.000 (1.000))		
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stanislaus County - Certified Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

I. Facility In	nforma	ation											
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Stanislaus County - Certified Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

I. Facility Information DER ID 6 **Business Name** BELTRAN FARMS 5329 Facility ID EAST OF OFFICE Chemical Location Chemical Location Map# Confidential EPCRA ☐ YES ✔ NO Grid# II. Chemical Information Chemical Name PETROLEUM HYDROCARBONS Common Name MOTOR OIL CAS# 64742-42-0 Fire Code Hazard Classes C EHS if YES must be in pound O Pure Mixture Trade Secret ○ Waste Type Radioactive Liquid Gas Curies Physical State Solid Fed. Hazard Reactive Pressure Release Acute Health Chronic Health Fire Categories 55 Largest Container 55 **GALLONS** Max Daily Amt (Units) Units O Cu Ft Gals Avg Daily Amt 30 State Waste Code ○ Tons O Lbs Annual Waste Amt 0 Days On Site 0 If extremely harzadous substance, amount must be reported in pound Storage Container Code - Check the Appropriate Box Below ○ Glass Bottle Aboveground Tank Carboy O Silo O Plastic Bottle Underground Tank Tank Inside Building Fiber Drum O Tote Bin Tank Wagon O Bag Steel Drum O Rail Car O Plastic Nonmetallic Drum O Box Other O Can Cylinder Below Ambient Above Ambient Pressure Storage Ambient Cryogenic Ambient Below Ambient Storage Temperature Above Ambient **EHS** CAS# % Wt Hazardous Component PETROLEUM DISTILLATES 0 0 0 0 If more harzardous comoponents are present at greater than 1% by weight if non carcinogenic, or 0.1% be weight of carcingenic attach additional sheets of paper capturing the required information ADDITIONAL LOCALLY COLLECTED INFORMATION: NFPA Information Fire Reactive Special Health **DOT Haz Class** UN / NA 1270 **DOT ER Guide** 128 if EPCRA. Please Sign Here OFFICIAL USE ONLY Reviewed By Date Received Date Reviewed Date Imputed District

stanislaus County - Certified Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

i. Facility in	normati	on									
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stanislaus County - Certified Unified Program Agency

HAZARDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION

I. Facility In	forma	ition												
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Physical State	O Solie	d 💿	Liquid	◯ Gas			○ Rad	lioacti	ve	Curi	es	under gertrett gewennt ge	Constitution of the	
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Str laus County - Certified Unified Program Ag ;y BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDENTIFICATION

ID # 5329	Cal.	Year Begin/End	Communication of the Communica			
Business Name	BELTRAN F	ARMS			2185 District	6
Addr (#, Street)	22601	DAVIS	Suite		Business Phone	209-837-4331
City	CROWS LA	ANDING	State	CA	Zip Code	95313
Dun & Bradstreet	N/A	STANISLAUS	Unincorporated	N/	AICS	CFIR # 100
Operator Name JO	HN E BELTRA	AN			Operator Phon	209-837-4331
		II. BUSII	NESS OWNER			
Owner Name BELT	RAN FARM	A 14 A 14 A 14 A 14 A 14 A 14 A 14 A 14		-	Phone 209-8	392-2640
Owner Address 226	01 DAVIS		***************************************			
City CR0	DWS LANDI	NG	State	CA	Zip 953	13
		III. ENVIRON	MENTAL CONTA	ACT		
Contact Name					Phone	
Contact Address						
City			State		Zip	
		IV. EMERGE	NCY CONTACT	ΓS		
	Prima	The state of the s			Secondary	
Name John	E. Beltv	'an	Name			
Title M6R			Title			
Business Phone 28	9 837-	4331	Business Pl	hone		
24hr Phone	09 892	2640	24hr Phon	е		
Pager#	04 7045		Pager #			
	V.	ADDITIONAL LOCALL	Y COLLECTED	INFORM	ATION	
Operator Mailing Add	dress 701 FII	VK)	***************************************			
City CROWS LA	ADING		State	CA	Zip 9531	3
	1	VI. MAILING/BIL	LING INFORMA	ATION		
Address 22601-D	AVIS 5	el mailing	addres	1		de de la constante de la const
City CROWS	LANDING		State	CA	Zip 9531	3
		VII. CEF	RTIFICATION			
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Inspector	Distr	ict Date o	of Insp	No of Emp		Date Rec'd

CHEMICAL DESCRIPTION

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Туре	Pure	○ Mixture	○ Waste	○ EH	S if YES mus	t be in p	oounds O	Trade Se	cret		
Physical State	○ Solid	Liquid	○ Gas		○ Radi	ioactive	e Ci	uries			
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DOT Haz Class	3	ealth UN / NA	Fire 1202	Rea	DOT ER G		ecial 128				
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OFFICIAL USE O	JNLY	danka erroma dikileriyah kunda dana daham makaila da kala kala kala	Reviewe	ed Bv		e-se-man e-see-man e-see		Northwest School of the Commission and Associated States (No. 1997)	and the state of t		William St.
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CHEMICAL DESCRIPTION

I. Facility Ir	nformation	1								
Business Name	BELTRAN FARMS				DE	RID	6			
Chemical Locati	WEST-OUTSIDE W	ALL OF THE SHO	P EAST OF OF	FKE	Fac	cility ID	5329			
Мар#			Grid	t l	Con	mical Loca fidential	tion	YES	☑ NO	
II. Chemic	al Informa	tion			EPC	HA				
Chemical Name	PETROLEUM HYD	ROCARBONS		t e servera a a sejeti tra e veli situata e la seje je je diaka sa brasisti I na sejeti se sejeti se se sejeti se sejeti se sejeti se sejeti se sejeti se sejeti se sejeti se sejeti se se						
Common Name	MOTOR OIL	r, un en a _m eur, processo opprocessor françaisse un difference de la companya d	ermagilis i parijenging glagas like gropes pekinamas fles amenas in earlieth slave.	remanerymanifelj erlej filj yr lennsljærelski allærere heldels	ille sektleren eksideren isonbesis kristenet e	renoviti koreskul saboraki bila senare	and the state of t			
CAS#	64742-42-0	Fire Code F	lazard Classe							
Туре	Pure Designation of the contract of the contra	Mixture O	Waste	EHS if YES must	t be in pound	ts O T	rade Sec	ret		
Physical State	○ Solid •	Liquid 🔘	Gas	○ Radi	oactive	Curle	es [
Fed. Hazard Categories	Fire	Reactive (Pressure Release	Acute	e Health	(c	hronic He	ealth		
Units	Max Do	ally Amt 5	5 Large	est Container	55	GALLO	ONS	(Units)		
● Gals ○	Cu Ft Avg Do	aily Amt 30	0 State	Waste Code	CONTRACTOR CONTRACTOR					
O Lbs O	Tons Annua	l Waste Amt 0	Days	On Site	0					
	us substance, amount or Code - Check the				1	!				
Aboveground		e Appropriate Bo Carboy	Glass Bottle							
 Underground 	Tank O	Silo	O Plastic Bottle							
Tank Inside ESteel Drum	- =	Fiber Drum Bag	○ Tote Bin○ Tank Wagon							
Plastic Nonm	~	Вох	Rail Car							
Oan	_	Cylinder	Other	na Paramanan a na manana manana mananan a da amin'ny fivondron	Per Laborator de la companya de la c		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Pressure Storag	ge 💿	Amblent (Above Ambier	nt O Below A	\mblent					
Storage Tempo	erature 💿	Amblent (Above Ambler	nt O Below A	\mbient	○ Crye	ogenic			
% Wt Hazard	ous Component						EHS	CAS	#	
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If more hazardous co capturing the required		t at greater than 1%	by weight if non carcir	ogenic, or 0.1% b	y weight of c	carcinogenic	altach add	ditional sh	eets of paper	***************************************
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NFPA Information	on Healt	h Fir	e R	eactiv	Specia	1				
DOT Haz Class	[3] l	JN / NA	1270	DOT ER GU	uide [1	28	:			
If EPCRA. Please	Sign Here									
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CHEMICAL DESCRIPTION

I. Facility Ir	nformation							
Business Name	BELTRAN FARMS				DERID	10	47.00.7700.781	
Chemical Locati	WEST OUTSIDE WALL	OF THE SHOP	a com Para e e e e e e e e e e e e e e e e e e		Facility ID	5329		
Map#			Grid#		Chemical Loc Confidential	ation	YES	✓ NO
II. Chemico	al Informatic	on			EPCRA			
Chemical Name	PETROLEUM HYDRO	CARBON	energi kanangan da kanangan da kanangan da kanangan da kanangan da kanangan da kanangan da kanangan da kananga	, i siste afastina are musica sunimi va ina é animin	en, herbaddibiliza i wishebian dilambi kumbasi izmish i	Playdon ** on *oo, oo, ** oo dan dan oo oo o		
Common Name	SOLVENT (STODDAR	RD-TYPE)	uu use een een aan aan aan aan aan aan aan aan 	et tillet til 1900 tillet och til till til till till till till till	e-valetilli koonnest olooluk (al-kolumus Valetik (al-kolumus Valetik (al-kolumus Valetik (al-kolumus Valetik (a	kerangang balikatik keranganya yagi dan	7	
CAS#	64475-85-0	Fire Code Hazard Cla	sse					
Туре	O Pure	xture 🔘 Waste	O EHS	if YES must be in	pounds 🔘 7	rade Sec	ret	
Physical State	Solid	quid 🔘 Gas /		O Radioactiv	e Curl	es		
Fed. Hazard Categories	• Fire	eactive Pressure	Release	Acute Hea	alth 💿 (Chronic H	ealth	
Units	Max Daily	Amt 55	Largest Co	ontainer 55	GALL	ONS	(Units)	
● Gals ○	Cu Ft Avg Daily ,	Amt 25	State Was	te Code	47 - A. C. C. A. C. C. C. A. C.	\$ 7 man \$ 1,000 m o 7 m o 1 m	•	
O Lbs O	Tons Annual Wo	aste Amf 0	Days On S	ite 0	1			
If extremely hazardou Storage Containe	us substance, amount mus r Code - Check the Ap	st be reported in pounds	.;	<u> </u>	Annual Chanda Chanada Chanada A			
Aboveground	_	_	Bottle					
Underground	7	_	c Bottle					
O Tank Inside E	~ /	er Drum						
Steel DrumPlastic Nonm	⊖ /Bag etallic Drum (்) Box		Wagon Car					
O Can	Y	inder Other	gat hat safe harmed had been as as a	ngtigente in gegett i det deut i det i Novembell de delike i nederlet i	Wileselv Vide Stallaber and benchmister accessed	vineer's and realisment North		
Pressure Storag	ge / 🌀 Ar	mblent () Above	Amblent (Below Ambi	ent			
Storage Tempe	erature Ar	mbient () Above	Amblent (Below Amble	ent () Cry	ogenic		2. P. Communication of the communication of the
% Wt Hazardo	ous Component					EHS	CAS#	The second secon
100 MINERA	L SPIRITS/STODDARD :	SOLVENT	**************************************	Carterior A Commission (I Associate Constant Associated Associated Associated Associated Associated Associated	TANISH COMMON AND SOCIAL SOCIA	0		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
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		gy garagen age, gara, y announce a sugare a comme, que a garage en gray, que e garage en gray.				0	in the section of the	
If more hazardous co capturing the required		greater than 1% by weight if n	on carcinogenic	, or 0.1% by weig	ht of carcinogenic	attach add	ditional shee	ets of paper
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NFPA Informatio	n Health	Fire	Reacti	v Sp	pecial]		
DOT Haz Class	FL UN /	/ NA 1268		OT ER Gulde	128			
If EPCRA. Please	Sign Here							
OFFICIAL USE C	NLY	MANAGO CANDO CONTRACTOR DO MANAGO ANTONOMO	E-7E-CHARLES MEDICAL M			and the second s	NET STREET, COMPANY STREET, CONTROL	Section of the second of the section
Date Received	Security of the Section of the Secti	Review	ed By	Ann's and a state of the state	al makalan manyai manunini 19 kilandala malamatika adalah	4 11,444,441,141,441,441,441,441,441,441	ann to this file a transmit to the second the transmit	'una a de Passas - Madrida de Sanasión Sanasión ano anti-
District		Date Re	eviewed	COMMANDE COMMANDE A PRODUCTION OF THE COMMAND	Date In	nputed	an emilian from from from the second	With the Principle of Street,

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CHEMICAL DESCRIPTION

I. Facility In	nformation							
Business Name	BELTRAN FARMS				DER ID	22		
Chemical Locati	100 FEET EAST OF TH	E OFFICE	e olek Markensen en Stein American men Wenthumbrater Ver Verliber	YPPANAPANAPIN MANABALANANAAAAAAA TAARAAAAAAAAAAAAAAAAAAAAAAAA	Facility ID	5329	274001 2000 274001 2000	
Map#			Grid#		Chemical Local Confidential	ation [YES	☑ NO
II. Chemico	al Informatio	on			EPCRA			
Chemical Name	PETROLEUM HYDRO	CARBON			la alleman semaleman for a major of communicational leader behalf of a leader behalf of a leader behalf of a l The latter of the leader behalf of the leader of the leader of the leader behalf of the leader behalf of the leader of the leader of the leader behalf of the leader of the	e di musik kaniit, ee kaanate ee ee ka		
Common Name	GASOLINE (RU) (U+)) (P)			en en en en en en en en en en en en en e			
CAS#	8006-61-9	Fire Code Haz	zard Classe					
Туре	O Pure	ixture O V	Vaste C E	IS if YES must be in	pounds 🔘 T	rade Sed	cret	
Physical State	Solid Lie	quid 🔘 G	3as	○ Radioacti	ve Curi	es		
Fed. Hazard Categories	• Fire	eactive () F	ressure Release	O Acute Hea	alth	hronic H	lealth	
Units	Max Dally	Amt 500	1000 Largest	Container 0	1000		(Units)	
	Cu Ft Avg Daily	F	Petropater and the second of t	/aste Code		anna arta da arta artis de de productiva artis antica de la constanta de la co] (0/11/0)	
O Lbs O	fons Annual W	l	Days O	n Site 0				
	us substance, amount mus		punds	<u> </u>				
Aboveground	r Code - Check the Ap Tank 💮 Car		Glass Bottle					
Underground	-	-	Plastic Bottle					
O Tank Inside E		er Drum	O Tote Bin					
Steel DrumPlastic Nonm	⊖ Baç etallic Drum ⊝ Box	•	─ Tank Wagon ─ Rail Car					
○ Can	Cyli		Other			Malerian maneral de la parece		
Pressure Storag	је 🕞 А	mblent (Above Ambient	O Below Ambi	ent			The Third Policies and Association Association of the Association of t
Storage Tempe	erature 💿 A	mblent (Above Ambient	O Below Ambi	ent (Cry	ogenic		
% Wt Hazardo	ous Component	Van-1911-1911-1911-1911-1911-1911-1911-19		i da a entre esta esta en la constitución de la constitución de la constitución de entre entre entre entre ent		EHS	CAS#	1
89-94 HYDRO	CARBONS W/A BP OF	F 70F-440F				0		
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0-10 GASOLI	NE-GRADE TERTIARY-	BUTYL ALCOHO)L	Annual Control of Cont		0		MSSETTA CONTROL CONTRO
a historia						0		
						0		
If more hazardous co capturing the required	mponents are present at g d information	greater than 1% by	weight if non carcinog	enic, or 0.1% by weig	ght of carcinogenic	attach ad	ditional she	ets of paper
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NFPA Informatio	\$14	Fire		L.	pecial]		
DOT Haz Class	FL UN /	/ NA	1203	DOT ER Guide	128			
If EPCRA. Please	Sign Here			HA W P P P NO. 6 F No. 6 S No. 6 S No. 6 S No. 6 S No. 6 S No. 6 S No. 6 S No. 6 S No. 6 S No. 6 S No. 6 S No.				
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District	A STATE OF THE PROPERTY OF THE		Date Reviewed		Date Ir	nputed		

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CHEMICAL DESCRIPTION

I. Facility In	ntormation				
Business Name	BELTRAN FARMS			DER ID 27	
Chemical Locati	WEST-OUTSIDE WALL OF THE SHO	PEAST OF OPPIC	E	Facility ID 5329)
Мар#		Grid#	C	Chemical Location Confidential	YES NO
II. Chemico	al Information		E	PCRA	
Chemical Name	PETROLEUM HYDROCARBON	er i 1955 er i 1968 et ermaline er Rakolt Perkilondet i Stret Fredriksment kombille et kanamen.	les en en ellemente schemmer er val valermanet i tillhenet et halletiske skille	om kandleren er skollt i Beredensellich deskollt uber remend zestoue droce droce eine eine deren	10 mm and 10 mm
Common Name	HYDRAULIC OIL	ta validen a sema sa e è une rarre del dalcada d'amerés elitabased resemble dalcases (creadibles	e de la composition de la composition de la composition de la composition de la composition de la composition La composition de la	e valentiiden en kalaksi van valimaan keeriliin van kanalii e van kuuliin dehinaan en keekse, eine en kee	Security Company
CAS#	64742-65-0 Fire Code I	Hazard Classe			man account
Туре	Pure Mixture) Waste	S if YES must be in po	ounds 🔘 Trade 🤄	Secret
Physical State	Solid Liquid) Gas	 Radioactive 	Curies	
Fed. Hazard Categories	Fire) Pressure Release	O Acute Health	n	Health
Units	Max Dally Amt 5	5 Largest	Container 55	GALLONS	(Units)
● Gals ○	Cu Ft Avg Daily Amt 3	0 State We	aste Code	The state of the s	
OLbs O1	Tons Annual Waste Amt 0	Days Or	Site 0	MANAGEMENT V V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	us substance, amount must be reported in		ŧ	us suum-uure eesti	
Aboveground	r Code - Check the Appropriate Bo Tank Carboy	Glass Bottle			
Underground	~ .	O Plastic Bottle			
O Tank Inside B	-	O Tote Bin			
Steel Drum	○ Bag	○ Tank Wagon			
○ Plastic Nonm○ Can	etallic Drum O Box O Cylinder	Other	$^{*} \times^{*} \text{can find } = \text{can find } \times^{*} ca$	recommissions confess continuous conditions of any of	Million of the state of the sta
Pressure Storag		Above Ambient	O Below Ambien	†	
Storage Tempe	erature 🜘 Ambient (Above Ambient	Below Ambien	t 🔵 Cryogen	ic
% Wt Hazardo	ous Component			EHS	CAS#
SOLVEN	IT DEWAXED DISTILLATE			0	
99 HVY PAI	RAFINN	· ************************************	· · · · · · · · · · · · · · · · · · ·	0	
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	akan NASHARI da da shambari da shambari da da da da da da da da da da da da da				Control of the Contro
capturing the required			nic, or 0.1% by weight	of carcinogenic attach	additional sheets of paper
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District		Date Reviewed		Date Inpute	

CHEMICAL DESCRIPTION

I. Facility in	ntormation	ì							
Business Name	BELTRAN FARMS	······································				DER ID	80		
Chemical Locati	SOUTH OF THE SH	IOP	tion for a financial state of the state of the state of the state of the state of the state of the state of the		F	acility ID	5329		
Мар#			Grid	#	c	hemical Lo	cation	YES	☑ NO
II. Chemico	al Informa	tion			E	PCRA			
Chemical Name	PETROLEUM HYD	ROCARBON		annemisseleensellijskerii 200a seellelines essanislisen			renew with more to prest the defect to prest the		
Common Name	WASTE OIL, MIXE	D PETROLEUM O		anne e a meille de	general and annual and annual and		enterment de l'engage espegliere est	1	
CAS#	N/A	Fire Code H	azard Classe						
Туре	O Pure •	Mixture	Waste 🔘	EHS if YES must	be in po	unds 🔘	Trade Se	cret	
Physical State	◯ Solid	Liquid 🔘	Gas	○ Radio	oactive	Cu	ırles		
Fed. Hazard Categories	• Fire (Reactive (Pressure Releas	e Acute	e Health	, 0	Chronic F	lealth	
Units • Gals	Cu Ft Avg Do	ally Amt - 20 ally Amt - 16 I Waste Amt 6	9 20 Stat	jest Container e Waste Code s On Site	[22]	55	en er en er en en en en en en en en en en en en en	(Units)	.d
If extremely hazardou	us substance, amount		100	s Off site	/ V	$\Theta^{ \mathcal{O} }$			
	r Code - Check the								
AbovegroundUnderground	=	Carboy Silo	○ Glass Bottle○ Plastic Bottle						
Tank Inside E		Silo Fiber Drum	O Tote Bin	3					
Steel Drum	_	Bag	Tank Wagor	1					
O Plastic Nonm		Box	O Rail Car	aritisa a 1970-at 1971 tha aritisa a 1970 (1981 tha haife ad Add anta Add aritisa ta 1970 tha 1970 th	***************************************	PPCATTAMAPAH AMAMAMAPAN			
Can Pressure Storag		Cylinder Amblent (Other Above Amble	ent O Bolow A	mbloni				Martin coloreda acomo camo ano acomo acomo acomo como como como como
Storage Tempo				int () Below A			ryogenic		
		ATTIOITI () //00/0 //IIIolo	iii O bolow /	u noioi ii				
	ous Component EUM WASTE OIL	alle e e entre estre le transfer e construer e entre e entre e entre e entre e entre e entre e entre e entre e				a	EHS	CAS	#
AA LEIKOLI	EOIM WASIE OIL				**************************************			N/A	
		**************************************	MARANIA MARANIA MARANIA MARANIA MARANIA MARANIA MARANIA MARANIA MARANIA MARANIA MARANIA MARANIA MARANIA MARANI Marania Marania				hviveneen liteli mil	== PP(221741745-1-1-107527-1-1-10551-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
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If more hazardous co capturing the required	mponents are present	at greater than 1%	by weight if non carc	nogenic, or 0.1% by	y weight o	of carcinogen	ic attach ac	lditional sh	eets of paper
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NFPA Informatio	n Healt	h Fire)	Reactiv	Spec	clal			
DOT Haz Class	3 1	JN / NA	1270	DOT ER GU	.ide	128			
If EPCRA. Please	Sign Here		F				· :		
OFFICIAL USE C	NLY		alledddin ac ar Ardin air ddin ac ar ar ar ar ar ar ar ar ar ar ar ar ar						
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District			Date Reviewe	ed		Date	Inputed		And the second of the second o

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CHEMICAL DESCRIPTION

i. Facility if	normano	n				
Business Name	BELTRAN FARMS	S		1	DERID 2442	00 Table 10
Chemical Locati	250 FEET EAST C	OF THE OFFICE	ndra disila suaritan tanggada Assandra di sudri di Producto VII di Prossio Antonia da Assandra di Arbitandra d		Facility ID 5329	A V of the house of the first o
Map#		en militarian en en maria de partir de la companya de la companya de la companya de la companya de la companya A distribución de la companya de la companya de la companya de la companya de la companya de la companya de la Os destruccións de la companya de la companya de la companya de la companya de la companya de la companya de la	Grid#	/ c	Chemical Location Confidential	YES NO
II. Chemic	al Informa	ation		E	EPCRA	a)
Chemical Name	UREA AMMON	UN NITRATE	NONE	STURED	ON SITE	TANK REMOVED,
Common Name	UN 32-	tionalitie 1900 on metaliisi kan 16.000 mmallikan 16.00 oo 16.00 metaliin	anning, in samurasiani in consut influence consumero	t of early series (see effect) symmetry ready of employing the policy of the con-	er er er er en filmlig som kanneter och er er er er en en en en en en en en en en en en en	A venerality
CAS#	7664-41-7	Fire Code H	lazard Glasse			And the second of the second o
Туре	Pure	Mixture 🔘	Waste	S if YES must be in po	ounds 🔘 Trade S	ecret
Physical State	O Solid	Liquid	Gas	 Radioactive 	Curies	
Fed. Hazard Categories	○ Fire (Reactive	Pressure Release	Acute Health	n Ohronic	Health
O Lbs O	Cu Ft Avg [Tons Annu	/	Doo State W	Container 0 aste Code a Site 0		(Units)
Aboveground Underground Tank Inside E Steel Drum Plastic Nonm Can Pressure Storage	Tank C Building C etallic Drum C	Carboy Silo Fiber Drum Bag Box Cylinder Ambient (Glass Bottle Plastic Bottle Tote Bin Tank Wagon Rail Car Other Above Ambient	O Below Ambler		
Storage Temp	erature / 🤇	Ambient (Above Amblent	Below Amblen	at () Cryogenia	>
% Wt Hazard	ous Component		kandidi kalada di kuma dideka malaka kanta kata kadi mari anta di kadi anta da kadi anta kadi kadi kadi kadi k Kadi kadi kadi kadi kadi kadi kadi kadi k		EHS	CAS#
7.75 AMMOI	NICAL NITROGEN	\	erare management of the control of t			
7.75 NITRATE	NITROGEN	i de la malada de la linde de Mendia de Sancia de la media de la mesta de la mante de la mesta de la mesta de Mendia de la secución de la mesta de la mesta de la mesta de la mesta de la mesta de la mesta de la mesta de l			AND ADDRESS AND AD	Amount of the managed of the managed control of the state
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DOT Haz Class		UN / NA		DOT ER Gulde		
If EPCRA. Please	Sign Here					
OFFICIAL USE C			omiliate de la completa del la completa del la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa de la completa del la completa de la completa de la completa del la completa			
Date Received	/ L		Reviewed By			
District	The state of the s	A A Commission and all Visions and executive above and ellipse of Planck St.P.C. and Plan	Date Reviewed		Date Inputed	POS LIGITATION POR LA SELECTION AND AND AND AND AND AND AND AND AND AN
8	Locales			Late Andreas and an arrangement of the second		

Mark.

CHEMICAL DESCRIPTION

I. Facility in	ntorma	ation										
Business Name	BELTRAN	FARMS	***************************************] [DER ID	3336	5779691.080061		
Chemical Locati	250 FEET	EAST OF TH	E OFFICE	Andrew Annua Annua Annua Annua Annua Annua Annua Annua Annua Annua Annua Annua Annua Annua Annua Annua Annua A	and the state of t		i	Facility ID	5329			
Мар#	Control of the contro			ethodyna pantissä vaikattiisia vaikattiinin taleeta kaika kaika kaika kaika kaika kaika kaika kaika kaika kaik Kaika kaika ka	Grid #		(C	hemical Lo confidential	cation	YES	☑ NO	
II. Chemico	al Info	rmatio	on			: papatitus in the last	E	PCRA				
Chemical Name	ETHALFL	JRALIN	ndd sawredda ethad erwiddiddereaddeaest	$ \ \ \ _{L^2(\Omega)} $	was no south former and may be enquire	on, a commencia a superior de la compansión de la compans		profiledon e removembro de la colonida de la coloni	e 2028 romando e Malare Deacemba	e land Mich		
Common Name	SONALA	N E.C.	an areas (a de la companion de la companion de la companion de la companion de la companion de la companion de	yaddidda ganggaraga dagadayda adaada sa ma	and the same of th	Tean and the section of the section	Property and continued	n handagan fushini i maaan ee linkiisa ee an	men (, e) em (de e, e apriliare de all'immers a a	www.why		
CAS#	55283-68	3-6	Fire Code	e Hazard Clas	se (
Туре	O Pure	⊙ M	ixture	○ Waste	○ EH	S if YES must b	oe in po	ounds 🔘	Trade Se	ecret		
Physical State	O Solid	l 💿 Li	quid	⊖/Gas		○ Radio	active	Cu	ırles [andresis de la companya de la companya de la companya de la companya de la companya de la companya de la compa		
Fed. Hazard Categories	• Fire	○ Re	eactive	O Pressure F	Release	Acute	Health	1	Chronic I	Health		
Units	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Max Daily	Amt	100	Largest	Container	0			(Units))	
⊕ Gals O	Cu Ft	Avg Dally	Amt	25	State W	aste Code	PIA/BURGING SAII	TYPECOLOMOTY				
O Lbs O	Tons	Annual W	aste Amt	0	Days Or	n Site	0					
If extremely hazardou Storage Containe							**************************************	-				
△ Aboveground○ Underground○ Tank Inside E○ Steel Drum○ Plastic Nonm	l Tank Tank Building	○ Cai ○ Sild ○ Fib ○ Baq m ○ Boo	rboy o er Drum g	○ Glass○ Plastic○ Tote E○ Tank¹○ Rail C	e Bottle Bin Wagon Far	GE VAN				Martinal Historia A Secure		
Can Pressure Storage	70	○ Cyl	inaer .mbient	Other Above		Below Ar	nhian	**************************************				in ordina de la composition de la composition de la composition de la composition de la composition de la comp
Storage Tempo			mbient			○ Below Ar			yogenic	anna an taona	e Transcription of the Control of th	Transfer of control of the control of the
	ous Comp		na e visconomia anticidade e estadores e visconidas s e visco					Herman Laman Adams Araba Araba	EHS	CAS	***************************************	Hamilton of Principles and Advantage of the
36 ETHALFL			***************************************	11. ACT 12.00 All the Total Act 10.00 Act 10.0	***************************************			enteriore in the section and the section of the sec	70		· TF	
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OFFICIAL USE C	JINL Y			Reviewe	ed Bv	A STATE OF THE STA		and the females for a standard the females failed	waterdamed medical recolation	ese difference dedecembed SSA es	light the second and the second t	
District				Date Re	•		and a second and a second as] Date	Inputed	Victoria Indiana AAPTa		
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3/20/2000

Business Information

Facility Id 5357 Association # 99 CFIR Number 000

Facility Name BELTRAN FARMS

Site Address 701 FINK * CROWSLANDING * CA * 95313

Site Phone 837-4331

Principal Actvty FARM/GENERAL FARM

SIC Code 0191 D&B Number N/A

2185 Plan Information

Plan Type FARM	District 6	Generator No	HM 12
Tanks No	Well Head No	Reg Form No	АНМ

Number of Employees Shift Hours

Owner	Operator
JOHN E BELTRAN 701 FINK CROWSLANDING, CA. 95313 209-837-4331	JOHN E BELTRAN 701 FINK CROWSLANDING, CA. 95313 209-837-4331

Emergency Contact	Alternate Contact
JOHN E BELTRAN Title OWNER/OPERATOR Business 209-837-4331 Home 209-892-4331 24 Hour 209-892-4331 Address City	FRED E BELTRAN Title Business 209-837-4331 Home 209-892-6330 24 Hour 209-892-6330 Address City

Mailing Address	Billing Address
701 FINK	701 FINK
CROWSLANDING	CROWSLANDING
CA 95313	CA 95313

Inspection Coordinator

11	R Id 5 UN S Number 6474	N/NA# 1202 11-44-2	Chemical Name DIESEL	TET NO 2	
Ave Lar Was Was	erage 6,500 cgest		Common Name DIESEL FU Jan Feb Mar Apr May Jun X X X X X X Location Storage		
Phy	ysical State	Physical	l & Health Hazards	DOT Haz Cl	!!
Mix Sol Liq	reNo rtureYes LidNo quidYes	Sudden Rele Reactivity Immediately	ease of PressureNoNo y (Acute)Yes hronic)Yes	Trade Secr Waste	
АНМ		Ingredie	nts	Percent	_
N N N	FUEL OIL #2			100	
11		N/NA# 1203 5-61-9	Chemical Name PETROLEUM HYDROCARBON		
Ave Lar Was	erage 500 rgest	GALLONS GALLONS	Common Name GASOLINE (RU) (U+) (P) Jan Feb Mar Apr May Jun Jul Aug Sep Oct No X X X X X X X X X X X X X X X X X X X		Oct Nov Dec
Use	e 19 PSI	1 Temp 4	Storage		
Phy	ysical State		l & Health Hazards	DOT Haz Cl DOT ER Gui	£1
Mix Sol	reNo ktureYes LidNo quidYes	Sudden Rele Reactivity Immediately	ease of PressureNoNo Waste y (Acute)No hronic)Yes		No
АНМ		Ingredie	nts	Percent	_ 3 _
	HYDROCARDONS WETHYL TERTIAN GASOLINE-GRADI	RY-BUTYL ETHE	R	89-94 0-11 0-10	2 0

2

11		N/NA# 2767 -32-2	Chemical Name DICOFOL S			
Ave Lai Was Was	Maximum 90 GALLONS Average 45 GALLONS Largest Waste Waste Code Use PSI 1 Temp 4		Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov X X X X X X X X X X X Location Storage			
Phy	ysical State	Physica	l & Health Hazards	DOT Haz Class CL DOT ER Guide# 31		
Mix So: Lic	MixtureYes Sudden Release SolidNo Reactivity LiquidYes Immediately		ease of PressureNoNo y (Acute)Yes hronic)No	Trade SecretNo WasteNo AHMNo		
АНМ		Ingredie	nts	Percent	•	
N N N	DICOFOL METHYL OLEATE			44-45 55-56		
11		N/NA# 9188 27-54-2	Chemical Name Common Name KOCIDE			
Ave		POUNDS POUNDS	Jan Feb Mar Apr May Jun	Jul Aug Sej X X X		

11		N/NA# 9188 27-54-2	Chemical Name Common Name KOCIDE		
Ave La: Was	erage 600 rgest ste ste Code		Jan Feb Mar Apr May Jun X X X X X X Location Storage		
Phy	ysical State	Physica	l & Health Hazards	DOT Haz C	11
Miz So: Lie	MixtureYes Sudden Rele SolidYes Reactivity. LiquidYes Immediately		ease of PressureNoNo y (Acute)Yes hronic)Yes	Waste	retNo No No
AHM		Ingredie	nts	Percent	
N N N	CUPRIC HYDROX: INERTS	IDE		77 23	

3

DER Id 5461 U CAS Number 292	N/NA# 2783 1-88-2	Chemical Name CHLORPYRI	FOS	
Average 4 Largest Waste Waste Code	0 GALLONS 0 GALLONS 1 Temp 4	Jan Feb Mar Apr May Jun X X X X X X Location Storage		
Physical State	Physica	l & Health Hazards	DOT Haz C.	lass POIS B ide# 55
PureNo MixtureYes SolidYes LiquidNo GasNo	Sudden Rel Reactivity Immediatel	ease of PressureNoNo y (Acute)Yes hronic)No		retNo No No
АНМ	Ingredie	nts	Percent	2
N CHLORPYRIFOS N N N N			50	

H	R Id S Numbe			/NA# 2-42-0	·	Chemical Name PETROLEUM HYDROCARBONS Common Name MOTOR OIL
Ave Lar Was	cimum erage rgest ste ste Cod		250		ons •	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov De X X X X X X X X X X X X X X X X X X
Phy	ysical	Stat	:e		-	al & Health Hazards DOT Haz Class CL DOT ER Guide# 27
MixtureYes Sudden Released SolidNo Reactivity Immediately		len Rele tivity diatel	lease of PressureNo yNo ly (Acute)Yes Chronic)No			
АНМ				Ir	gredie	ents Percent 2
N N N	PETROI	EUM	DIST	LLLATE	ES	98

11/03/94

Id Number

41		N/NA# 2783 D-42-5	Chemical Name PARAQUAT Common Name PARATHION		
La:	erage 750 rgest ste ste Code		Jan Feb Mar Apr May Jun		
Phy	ysical State	Physica	l & Health Hazards	DOT Haz C	lass POIS B ide# 55
Min Sol	reNo ktureNo lidYes quidNo	Sudden Rele Reactivity Immediately	ease of PressureNoNo y (Acute)Yes nronic)Yes	Waste	retNo No No
AHM		Ingredie	nts	Percent	
N N N	PARAQUAT INERTS			25 75	
11		N/NA# 1993 33-68-6	Chemical Name ETHALFLURALIN Common Name SONOLAN E.C.		
La:	erage 35 rgest ste ste Code		Jan Feb Mar Apr May Jun X X X X X X Location Storage		13
Phy	ysical State	Physica	1 & Health Hazards DOT Haz Class FL DOT ER Guide# 27		
Miz So: Lic	reNo xtureYes lidNo quidYes	Sudden Rele Reactivity Immediately	ease of PressureNoNo y (Acute)Yes hronic)Yes	Trade Seco	retNo No No
АНМ		Ingredie	nts	Percent	2
N N N	ETHALFLURALIN XYLENE			36 59	2 0

Page

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		Jan Feb Mar Apr May Jur X X X X X X X Location Storage		
Physical State		l & Health Hazards	DOT Haz Cl	lass ORM-S ide# 55
PureNo MixtureYes SolidNo LiquidYes GasNo	Sudden Rel Reactivity Immediatel	ease of PressureNoNo y (Acute)Yes hronic)Yes	Waste	retNo No No
АНМ	AHM Ingredients			
N TILLAM N KEROSENE N			77.3 22.7	
	N/NA# 0 4-41-7	Chemical Name UREA AMMC	NIUM NITRATI	Ε
Average 8,50 Largest Waste Waste Code	O GALLONS O GALLONS 1 Temp 4	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov D X X X X X X X X X X X Location Storage		-
Physical State	Physica	l & Health Hazards	DOT Haz C	
PureNo MixtureYes SolidNo LiquidYes GasNo	Sudden Rel Reactivity Immediatel	ease of PressureNoNo y (Acute)Yes hronic)No	Trade Seci	retNo No No
АНМ	Ingredie	nts	Percent	
N AMMONICAL NIT N NITRATE NITRO N UREA NITROGEN	GEN		7.75 7.75 16.5	

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5357

			1		
1	R Id 1444 UN S Number	N/NA# O	Chemical Name ZIRAM	-	
	•	0 POUNDS	Common Name ZIRAM		
	rgest	0 POUNDS	Jan Feb Mar Apr May Jun X X X X X X Location		
Was Use	ste Code PSI		Storage		
Phy	sical State	Physical	l & Health Hazards	DOT Haz Cl	lass ORM-S ide# 55
ı	reNo		No ease of PressureNo		
1	ktureYes LidYes	11	ease of PressureNo	1	retNo
LiquidNo Immediately			y (Acute)No hronic)No		No
AHM Ingredier			nts	Percent	
N ZIRAM N INERTS N				76 24	
N					
	R Id 2416 UN S Number	N/NA# O	Chemical Name PHOSALONE Common Name ZOLONE	:	
Мах	cimum 120	0 GALLONS	Common Name ZOLONE		
		0 GALLONS	Jan Feb Mar Apr May Jun		-
Lar Was	rgest ste		X X X X X X X Location	х х х	х х х
Waste Code			Storage		·
Phy	vsical State		l & Health Hazards	DOT Haz Cl	
	reNo ktureYes	,,	No ease of PressureNo	Dog obeam	retNo
1	lidNo	Reactivity			No
	quidYes		y (Acute)No hronic)No	AHM	No

<u> </u>			,
АНМ	_	Percent	
N N N	PHOSALONE	34.4	

5357

Business Information

Facility Id 5329 Association # 99 CFIR Number 100

Facility Name BELTRAN FARMS

Site Address 22601 DAVIS * CROWSLANDING * CA * 95313

Site Phone 837-4331

Principal Actvty FARM/GENERAL FARM

SIC Code 0191 D&B Number N/A

2185 Plan Information

Plan Type FARM	District 6	Generator Yes	нм 8
Tanks No	Well Head No	Reg Form No	АНМ

Number of Employees Shift Hours

Owner	Operator		
BELTRAN FARMS	BELTRAN FARMS		
22601 DAVIS	22601 DAVIS		
CROWSLANDING, CA. 95313	CROWSLANDING, CA. 95313		
209-892-2640	209-892-2640		

Emergency Contact	Alternate Contact		
JOHN E BELTRAN Title MANAGER Business 209-837-4331 Home 209-892-2640 24 Hour 209-892-2640 Address City	FRED E BELTRAN Title Business 209-837-4331 Home 209-892-6330 24 Hour 209-892-6330 Address City		

Mailing Address	Billing Address		
22601 DAVIS	22601 DAVIS		
CROWSLANDING	CROWSLANDING		
CA 95313	CA 95313		

Inspection Coordinator

Max Ave Lan Was	S Number 6474 kimum 10,000 erage 4,000 egest	GALLONS GALLONS	Chemical Name DIESEL Common Name DIESEL FU Jan Feb Mar Apr May Jun X X X X X X Location 100 FEET EAST Storage AGT	n Jul Aug Se X X X	$\mathbf{X} \mathbf{X} \mathbf{X}$
Pui	rsical State	Fire	DOT Haz Class CL DOT ER Guide# 27Yes ease of PressureNo Trade Secret		
So] Liq	lidNo quidYes	Reactivity Immediately	Y (Acute)Yes	Waste	No
AHM		Ingredie	nts	Percent	
N N N N	FUEL OIL #2			100	
		N/NA# 1203 5-61-9	Chemical Name PETROLEUM HYDROCARBON		
Maximum 500 GALLONS Average 250 GALLONS Largest Waste Waste Code			Common Name GASOLINE (RU) (U+) (P) Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov De X X X X X X X X X X X X X X X X X X X		p Oct Nov Dec X X X
Use	e 19 PSI	1 Temp 4	Storage AGT		
	rsical State		l & Health Hazards	DOT Haz C DOT ER Gu	
Mix Sol Lic	tureYes idNo uidYes	Sudden Rele Reactivity Immediately	ease of PressureNoNo y (Acute)No nronic)Yes	Waste	retNo No No

Gas	sNo	Delayed (Chronic)Yes			
АНМ		Ingredients	Percent		
N	METHYL TERTIA	HYDROCARDONS W/A BP OF 70F-440F METHYL TERTIARY-BUTYL ETHER GASOLINE-GRADE TERTIARY-BUTYL ALCOHOL			

DER Id 27 UN/NA# 1270 CAS Number 64742-65-0 Maximum 55 GALLONS Average 30 GALLONS Largest 55 GALLONS			Chemical Name PETROLEUM Common Name HYDRAULIC Jan Feb Mar Apr May Jun X X X X X X	OIL Jul Aug Se X X X	p Oct Nov Dec X X X
Waste Waste Code Use 26 PSI 1 Temp 4			Location WEST OUTSIDE W Storage METAL DRUM	ALL OF THE	SHOP
	ysical State	-	l & Health Hazards	DOT Haz Class CL DOT ER Guide# 27	
Miz Sol Lic	reNo ktureYes lidNo quidYes	Sudden Rela Reactivity Immediately	ease of PressureNoNo y (Acute)No hronic)Yes	Trade SecretNo WasteNo AHMNo	
АНМ		Ingredie	nts	Percent	
N N N	N HVY PARAFINN N				
11		N/NA# 1270 12-42-0	Chemical Name PETROLEUM Common Name MOTOR OII		ns
		GALLONS GALLONS	Jan Feb Mar Apr May Jun		p Oct Nov Dec

	R Id 6 UI 5 Number 647		Chemical Name PETROLEUM Common Name MOTOR OIL	HYDROCARBO	1S
Maximum 55 GALLONS Average 30 GALLONS Largest 55 GALLONS Waste Waste Code			Jan Feb Mar Apr May Jun X X X X X X Location WEST OUTSIDE W Storage METAL DRUM	x x x	x x x
<u> </u>	ysical State	-	l & Health Hazards	DOT ER Guide# 27	
Mix Sol	reNo ktureYes lidNo quidYes	Sudden Rel Reactivity Immediatel	ease of PressureNoNo y (Acute)Yes hronic)No		retNo No No
AHM		Ingredie	Percent		
N N N	PETROLEUM DIS	FILLATES	98		

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5329

11	R Id S Numb			N/NA# 75-85-0	1268)	Chemical Name PETROLEUM		
Maximum 55 GALLONS Average 25 GALLONS Largest 55 GALLONS Waste Waste Code			ONS ONS	Common Name SOLVENT (STODDARD TYPE) Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec X X X X X X X X X X X X X X X X X X X				
Phy	Physical State Physica			I	Physica:	l & Health Hazards DOT Haz Class FL DOT ER Guide# 27		
Mix Sol	MixtureYes Sudden Release SolidNo Reactivity Immediately			Sudo Read Imme	den Rele ctivity ediately	ease of PressureNoNo y (Acute)Yes nronic)Yes	Waste	retNo No No
АНМ	Ingredients				nts	Percent	2	
N N N	MINERAL SPIRITS/STODDARD SO				DDARD SO	DLVENT	100	

H	R Id 3336 U S Number 552	N/NA# 83-68-6	1993	Chemical Name ETHALFLUR	e e	
Maximum 100 GALLONS Average 25 GALLONS Largest Waste Waste Use PSI 1 Temp 4			ns •	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec X X X Location 250 FEET EAST OF THE OFFICE Storage STORAGE VAN		
Physical State Physical				l & Health Hazards DOT Haz Class FL DOT ER Guide# 27		
MixtureYes Sudden Rele SolidNo Reactivity LiquidYes Immediately			en Rele tivity diately	ease of PressureNoNo y (Acute)Yes hronic)Yes	Waste	retNo No No
АНМ	M Ingredien			nts	Percent	3
H [ETHALFLURALIN XYLENE				36 59	

			:		
li .		N/NA# 0 4-41-7	Chemical Name UREA AMMC	NIUM NITRAT	Е
Maximum 10,000 GALLONS Average 2,000 GALLONS Largest Waste Waste Code			Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec X X X Location 250 FEET EAST OF THE OFFICE Storage AGT		
ļ	ysical State		l & Health Hazards	DOT Haz Class DOT ER Guide# 0	
MixtureYes Sudden Releastivity LiquidYes Immediately			ease of PressureNoNo y (Acute)Yes hronic)No	Trade SecretNo WasteNo AHMNo	
АНМ		Ingredie	nts	Percent	
N N N	AMMONICAL NITH NITRATE NITROC UREA NITROGEN		7.75 7.75 16.5		
1	R Id 80 U S Number N/A	N/NA# 1270	Chemical Name PETROLEUM Common Name WASTE OIL		
1		GALLONS GALLONS	Jan Feb Mar Apr May Jun		

11	R Id 8 5 Number		•	1270	Chemical Name PETROLEUM		
Ave La: Wa: Wa:	Maximum 200 GALLONS Average 100 GALLONS Largest Waste Waste Code			ONS	Common Name WASTE OIL Jan Feb Mar Apr May Jun X X X X X X Location SOUTH OF THE S Storage AGT	Jul Aug Sep X X X	o Oct Nov Dec
Phy	Physical State Physica				l & Health Hazards	DOT Haz Class CL DOT ER Guide# 27	
Mi So: Lie	MixtureYes Sudden Release SolidNo Reactivity LiquidYes Immediately			den Rele ctivity ediately	ease of PressureNoNo y (Acute)Yes nronic)No	Waste	retNo Yes No
АНМ	Ingredients			ngredie	nts	Percent	2
N N N	PETROLE	UM WAS'	ΓE			99	

FARM AND AGRICULTURE HA	ZARDOUS MATERIALS INVENTO	RY SHEET FORM	B - 4							<u> </u>
RETURN TO:	Farm Name: BELTRAN	FARMS	Owner/Operator	Name	Phone	EMERGE	NCY COORE	OTANI	R 24HR P	HONE
Stanislaus County Dept. of	Location:		SamE Mailing Addres			JOHN	JOHN E. BELTRAN 892 2640 ALT. EMERG. COORDINATOR 24HR PHONE			
Environmental Resources	Address 2260/ DAN Mailing: STREET	CITY STATE ZIP CODE	SAME	3		1	E. BEL			
1716 Morgan Road	Address Tol FINIL PD (ROWSLANDING 95313	STREET/P.O. BOX		STATE ZIP COL	DE HEED	E. DEL	ICAN	892 65	50
Modesto, Ca. 95351 (209) 525-4150	Telephone: 837 433/ Fig	CITY STATE ZIP CODE		C CODE	7				Period	
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Purpose of Disclosure:					discl	osed hazar	dous mate	rial	Haracook marc for stressment	Z640 R PHONE 6330 Pevious1
	Annual Disclosure		Business Name	- H-			sclosed h	azardo	ous material	
	Correction		Business Address		Other	(specify)				=
Product or Trade Name	Common Name (optional) Chemical Name (optional)	JFMAMJJA	Maximum	Average	Number Of	r Of Cont Location		Use		
	2	1901 7 3	J F M A M J J A A E A P A U U U N B R R Y N L G	ECOE	Amount	Daily Amount	Days on site			
	FOR COMMON MAZARDONE NATE	ERIALS (gasoline, acetylene,				SEE REVE	5	8	7	1:
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JAN 06 1987

HAZARDOUS MATERIALS INVENTORY FOR FARMERS DEPT OF AGRICULTURE

FARM NAME BELLEAN	FARMS	BUSINESS PHONE	109) 837-4331
OPERATOR OR OWNER BAD	RAN FARMS		
ADDRESS 701 FINK	Rd		
CROWS LANG			
EMERGENCY CONTACT PERSON	,	24-Hour Phone Number	pers
Primary John E.	BELTERN	Business (209)	839-4331
Alternate FRED E.	BOSTEAN	Home (207) 892	2-6330
		QUANTITI	re
CHEMICAL NAME	COMMON NAME (TRADE NAME)	MAXIMUM AMOUNT AT ONE TIME	ANNUAL AMOUNT
45461 ChlorpyRifos	LORSBAN	80 GAI	120 GAL
\$1158 PROPARGITE	omite	150 50gal	750 100gcl
ChexATIN	PLICTRAN	170	470
ETHYLONE	EThrel	Angeles and the state of the st	
Oxyfluoren	GOAL	10 GAL	20 GAL
ORYZALIN	SURFLAN	15 GAL	25 GAL
SIMAZINE	PRINCEP	20 BBS	Bo LBS
WORF (VRAZON)	SOLICAM		
METHOMEL	LANNATE -NUDRIN	50 fbs	150 lbs
1 OCARBARYL	Sevin	50 165 300 GAL	200 lbs
ACT 1-3 DICKOROPROPENE	TELONE	100 cm	180 car
NAPROPAMIOE	DEVRINON	30 EM	50 cm
	DYFONATE	30	SO GIL
DIMETHORTE	DINETHORIE	50165	200 165
Acephate TRIADIMETON	- BAYLETON	20 165	50 165
DICOFOL -	KELTHANE	90 gcl	270 gcl
SIGNATURE Tred & Bette	TITLE Ivag	DATE _	12/17/86

(USE OTHER PAGES IF NEEDED)

1394 130P

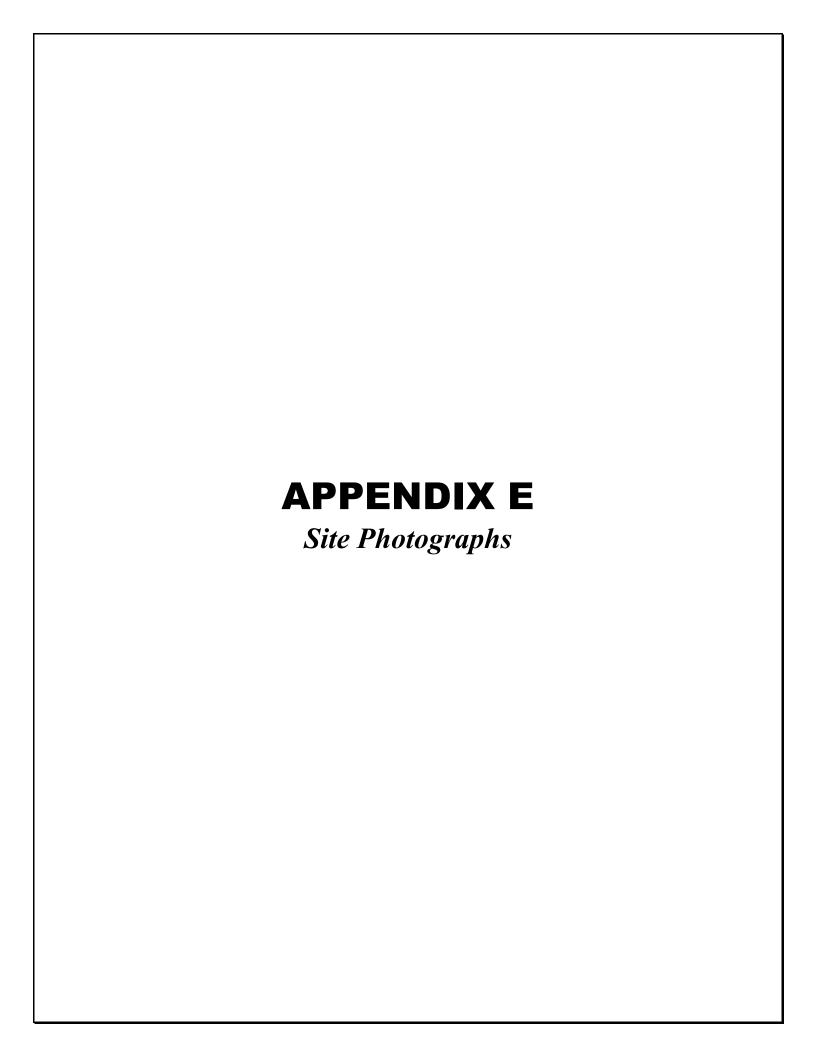
HAZARDOUS MATERIALS INVENTORY FOR FARMERS

OPERATOR OR OWNER				
ADDRESS				
EMERGENCY CONTACT PERSON	against the same of the same o	24-Hour Phone Num	bers	
Primary		Business		
Alternate		Home		
		QUANTITIES		
CHEMICAL NAME	COMMON NAME (TRADE NAME)	MAXIMUM AMOUNT AT ONE TIME	ANNUAL AMOUNT	
SYT PARATHION	PARATHION	1500 lbs	2000 16s	
CUPRIC HYDROXIDE	1-3 KOCIDE	1200 lbs	3600 lbs	
COPPER Oxychloricle SUlfaTe	OXYCOP	2000 16s	2000 16s	
METALAXYL	Ridomil	10 gal	15 gal	
METhidAThiON	SUPRACIDE 21RAM 810	25 GAL	100 GAL	
UY ZIRAM	ZIRAM 8160	1360 165	2600 16	
PINEOLINE	NUFILM	50 GAL	50 GAL	
GlyphosATE _	ROUNDUP	10 GAL	34-44-1-44-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1	
I proclione	ROVRAL	350 lbs	700 lbs	
16 Phosplone	ZOLONE	120 GAL	240 GA	
2-4-D AMINE	2-4-0	15 EAL	15 GAL	
Alry / ARVIpolyoxethy love	TRITON AG 98	10 GAL	25 GAL	
1/24/2/	-UN32 % FERTILIZ AN 20% FERTILIZ	er 17,000 gal	30,000 0	
SIGNATURE	TITLE	DATE		

HAZARDOUS MATERIALS INVENTORY FOR FARMERS

ADDRESS				
EMERGENCY CONTACT PERSON		24-Hour Phone Nu	mbers	
Primary		Business		
Alternate	- ⁰ a	Home		
	T .			
	COLATOR WELF	QUANTITIES		
CHEMICAL NAME	COMMON NAME (TRADE NAME)	MAXIMUM AMOUNT AT ONE TIME	ANNUAL AMOUNT	
TRIFLIURALIN	TREFLAN	50 GAL	50 61	
ETHAFINATION	SONALAN	75 GAL	150 GI	
Metolachor	DUAL	50 GAL	NAME AND ADDRESS OF THE OWNER, TH	
Alachlor GRAMOXONE	LASSO PARAQUAT	35 GAL	70 6A	
ALUMINUM PHOSPHICE	PHOSTOXIN	Newson	and a control of the party of the control	
STRYCNINE	STRYWINE	Manager a production of the control	Soften area a some to	
ZINC CHELATE	ZINC CHELATE	50 GAL	150 0	
#5	DIESEL FUEL	11,000 gal	30,000	
* FF	GASOLINE	1,000 gal	5,000	
26	OIL	500 gal	1000 6	
			Andreas are an interest of the second	

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Photograph 1 - Pesticide Storage Area (outside subject property).



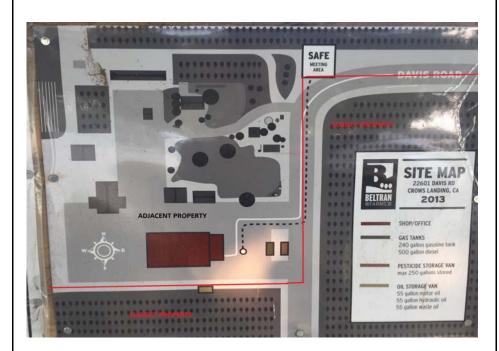
Photograph 2 - Fuel Storage Area, two ASTs, one diesel and one gasoline (outside subject property).



Photograph 3 - Minor area of stained soil near pesticide trailers (outside subject property).



Photograph 4 - Inside Pesticide, Fungicide and Herbicide Storage Container. Bottom left is one crate ouside container. Products under 5 gallons.



Photograph 5 - Adjacent property map.



Photograph 6 - Main farm buildings: car storage (foreground barn bottom left), event space (background barn bottom left), residence (top left), trailer (top right), pump house and fuel tank (bottom right). All buildings outside subject property.

Site Photographs



Photograph 7 - Northern boundary of subject property: Fink Landfill. Select monitoring wells shown (well 16, 20, 24 and 31). Several monitoring wells were inside the landfill boundary line, as shown in photograph 8.



Photograph 8 - Northern property boundary adjacent to Fink Landfill. Monitoring well shown.



Photograph 9 - Northwestern property boundary



Photograph 10 - PG&E Crow Creek Switching Station (top is overview photo, bottom left are substation signage, and bottom right is the substation stormwater detention pond)





Photograph 11 - Utilities, drum and debris storage around PG&E Station



Photograph 12 - Improperly stored copper sulfate sacks potentially exposed to wind and rain runoff.



Photograph 13 - Solar energy facility operation & maintenance area. Top photo shows fire department water and equipment trailer, bottom photo shows portable restrooms in foreground and SCADA control center in background.



Photograph 14 - Solar energy facility operation & maintenance area. Left photo shows propane tank, top-right photo shown unknown fluid tank, bottom right photo shows tranformer banks and electrical cabinets.



Photograph 15 - Horse stables (top). Horse pasture, water source (bottom).



Photograph 16 - Top left, diesel tank (verified empty) and top right, historic outhouse (verified nonoperational). No septic of vent pipes observed. Bottom is empty water tank, and storage area for fence posts, wiring, hay, and a few farm equipment tires.







Photograph 17 - Representative Beltran Ranch Well Site



Photograph 18 - Foreman office area. Top right is a fuel AST, top left is an empty AST, bottom is a dog kennel.





Photograph 19 - Foreman office area. Top is foreman's office and workspace. Bottom left is potable toilet. Bottom right is septic vent pipe (unconfirmed if operational). The visible corner of shipping container is a bathroom.



Photograph 20- Portable generator in milk barn area.



Photograph 21 - Material storage area in milk barn area. Contained irrigation tubing, metal wire, tires, 5-gallon buckets, empty 55-gallon barrels, water storage tanks, and other miscellaneous debris.



Photograph 22 - Milk Barn Area: Container labeled pesticide storage area. Two 5 gallon pesticide containers were found, but were empty. Several paint canisters, a <5 gallon bucket of gopher bait and some seed packets were observed.



Photograph 23 - Milk barn area (accessed indoors with no concerns). Empty 55-gallon drums. Tire storage. Areas of staining, but no discernable oder. Spent car batteries stored on concrete.



Photograph 24 - South and west end of property (south and west of solar field)



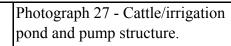
Photograph 25 - Eastern border of property. Top photo is south portion of property, looking southeast.

Bottom photo is on Davis Road, looking southeast.

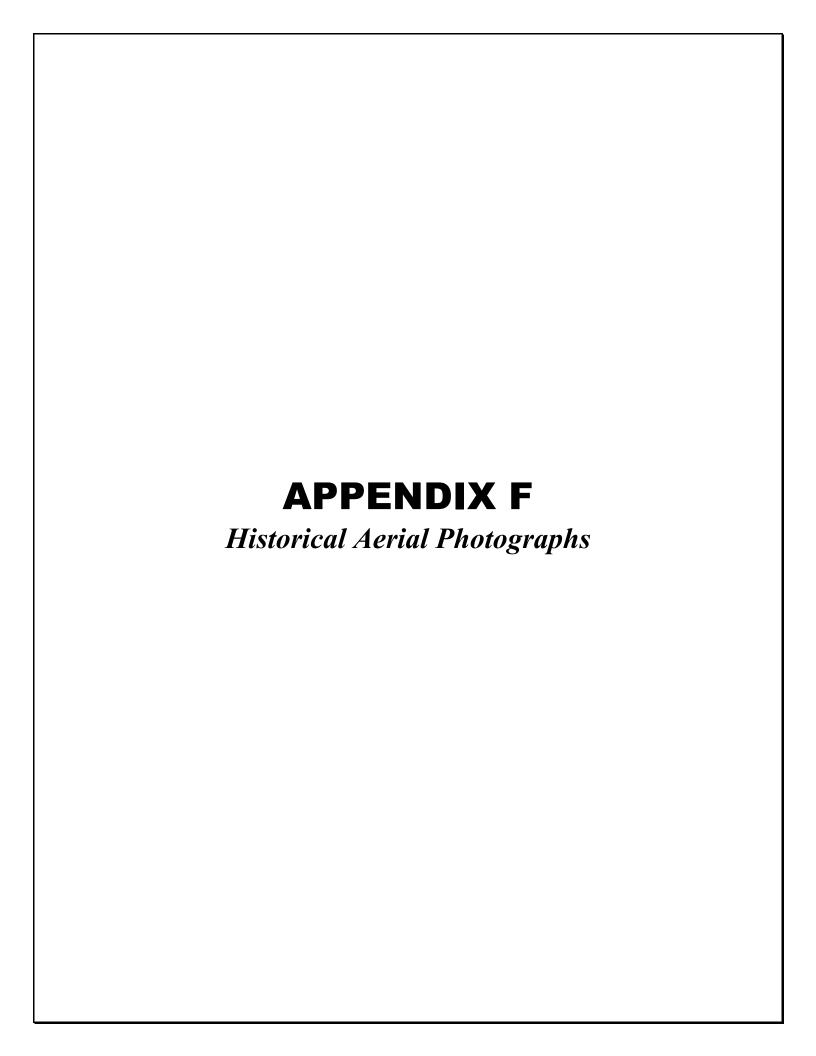


Photograph 26 - Drainage. Top-left and bottom: drainage graded/maintained by owner. Top-right, un-maintained, relic debris.









Beltran Ranch

24776 Davis Road Newman, CA 95363

Inquiry Number: 5476062.4

November 07, 2018

The EDR Aerial Photo Decade Package



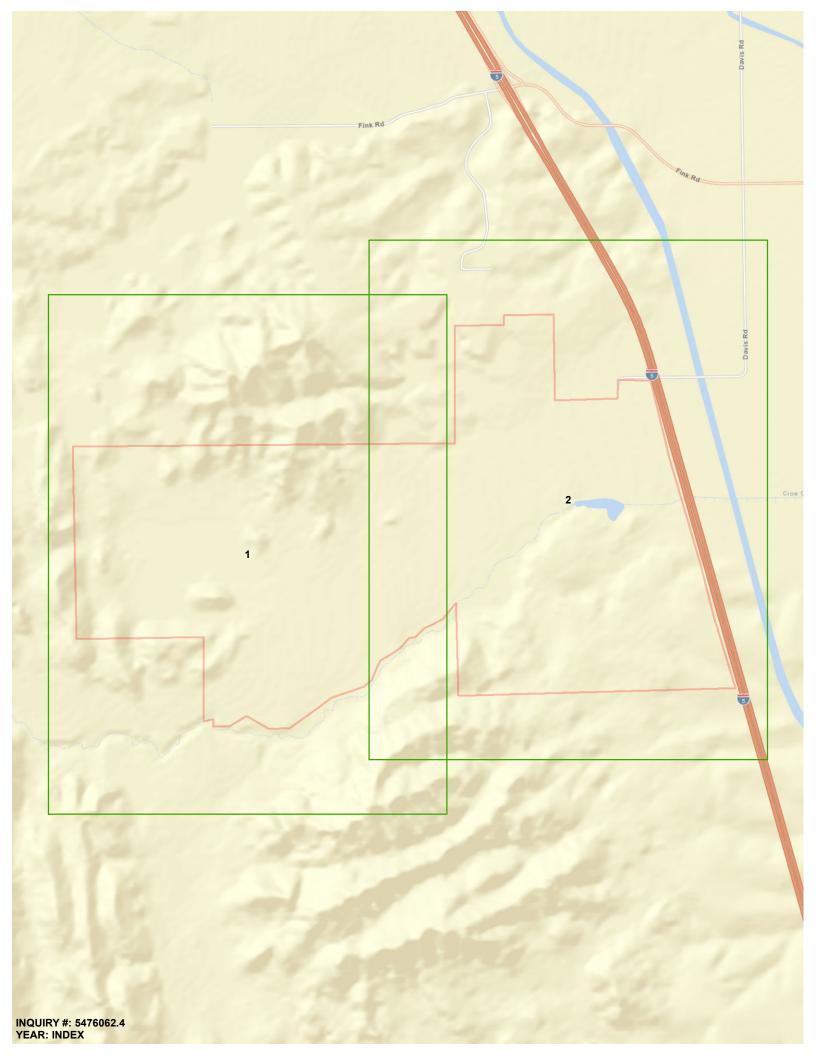
Date EDR Searched Historical Sources:

Aerial Photography November 07, 2018

Target Property: 24776 Davis Road

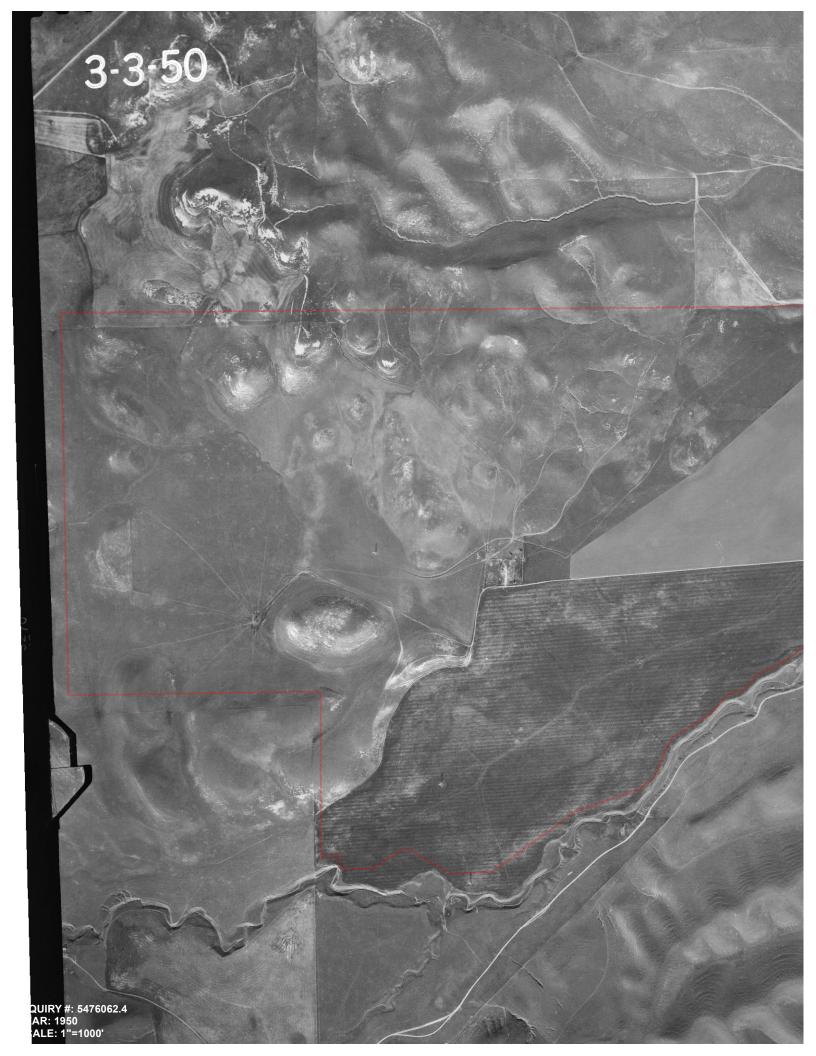
Newman, CA 95363

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1937	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1937	USDA
1950	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1950	USDA
1954	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1954	USGS
1970	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1970	USGS
1974	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1974	USGS
1982	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1982	USDA
1998-1999	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1998-1999	DOQQ_USGS
2005	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2005	NAIP_USGS
2009	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2009	NAIP_USGS
2012	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2012	NAIP_USGS
2016	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2016	NAIP_USGS



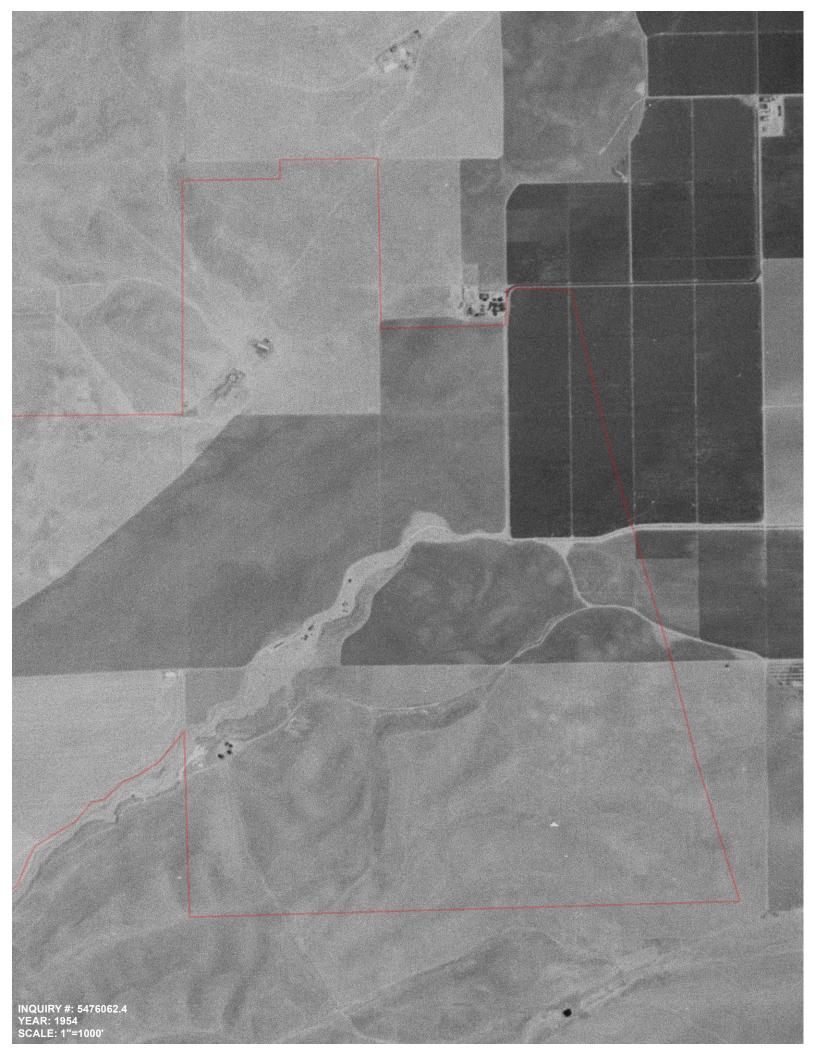




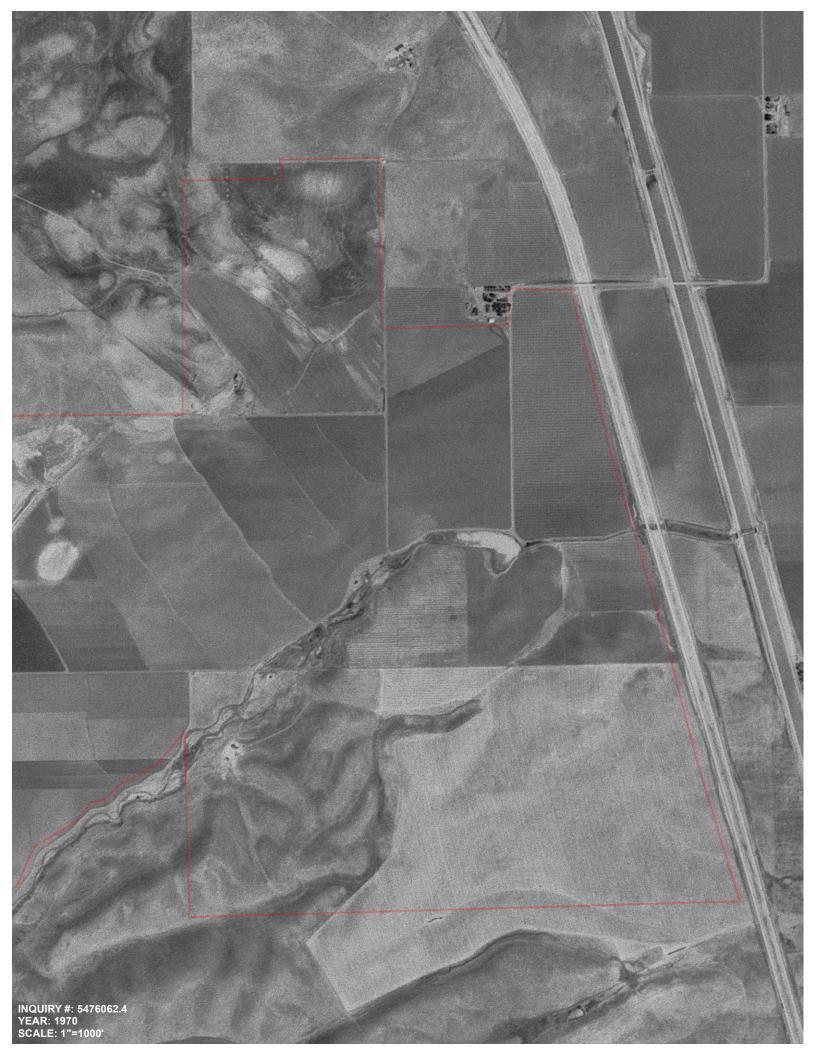


























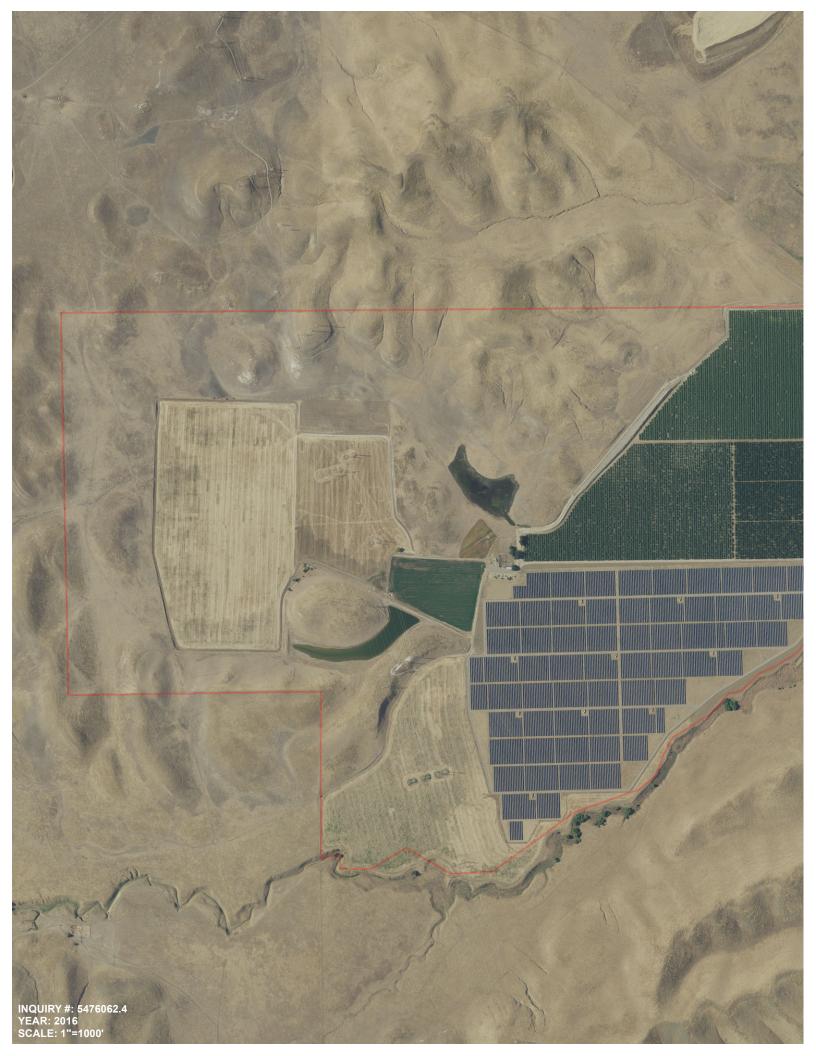


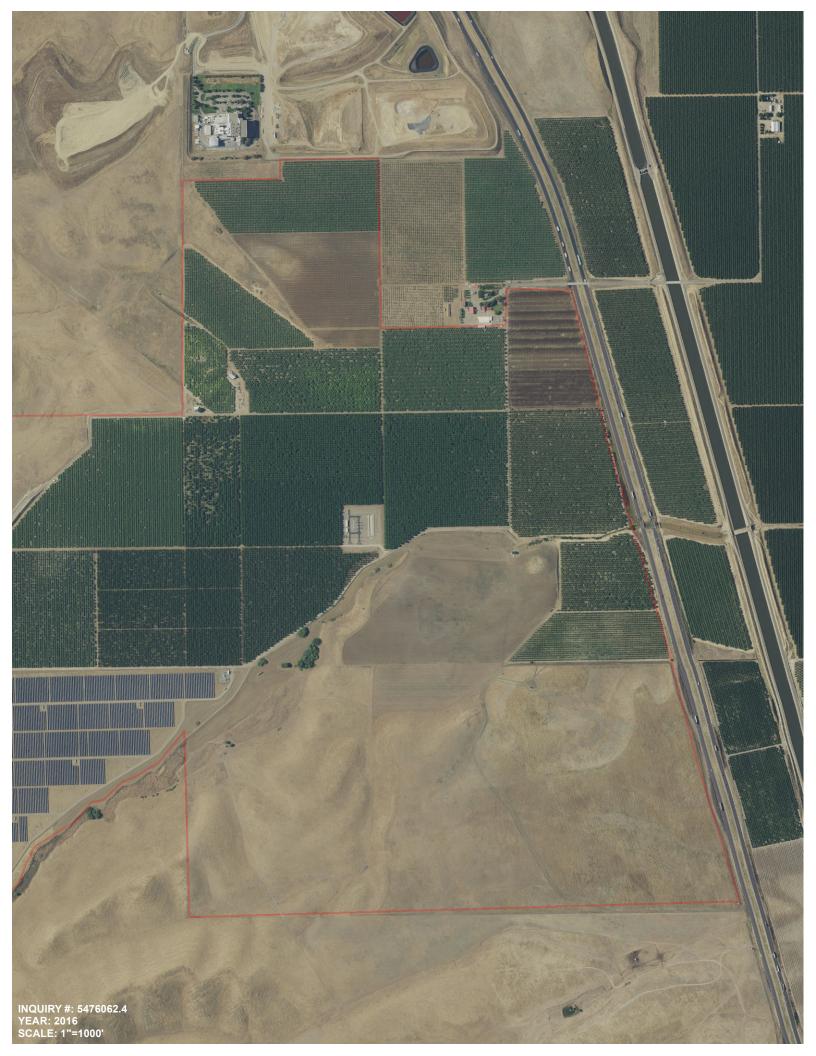


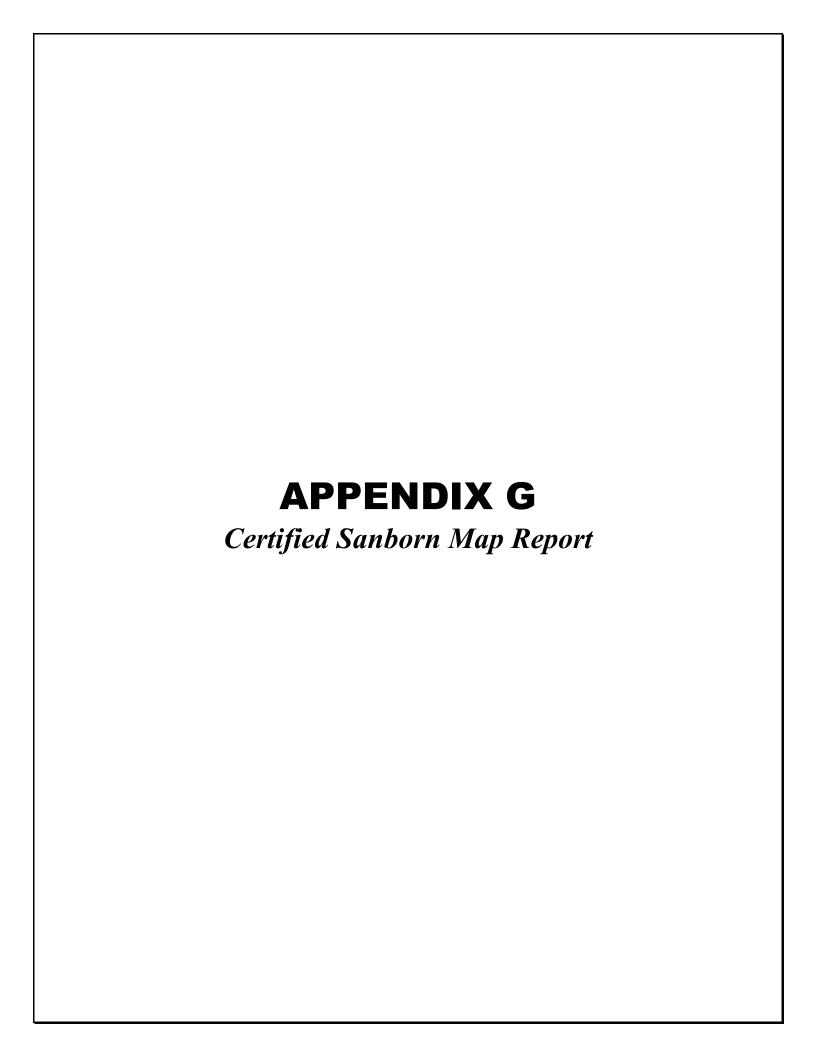












Beltran Ranch 24776 Davis Road Newman, CA 95363

Inquiry Number: 5476062.2

November 06, 2018

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Certified Sanborn® Map Report

11/06/18

Site Name: Client Name:

Beltran Ranch Dudek & Associates 24776 Davis Road 605 Third Street Newman, CA 95363 Encinitas, CA 92024

EDR Inquiry # 5476062.2 Contact: Audrey Herschberger



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Dudek & Associates were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # E4E0-4F80-AA64

PO # N/A **Proiect** 11520

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: E4E0-4F80-AA64

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

University Publications of America

▼ EDR Private Collection

The Sanborn Library LLC Since 1866™

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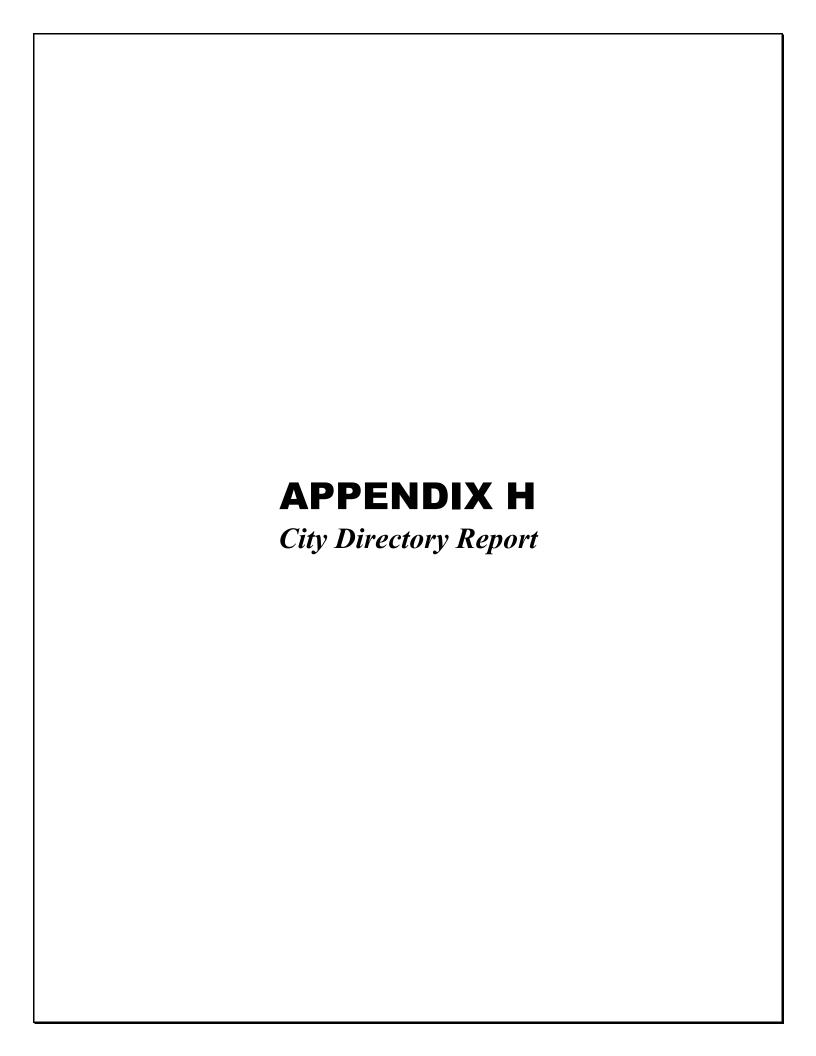
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Beltran Ranch 24776 Davis Road Newman, CA 95363

Inquiry Number: 5476062.5

November 08, 2018

The EDR-City Directory Abstract



TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	Text Abstract	Source Image
2009	Haines Criss-Cross Directory	-	Χ	X	-
2004	Haines Criss-Cross Directory	-	X	X	-
2000	Haines Criss-Cross Directory	-	X	X	-
1995	Haines Criss-Cross Directory	-	X	X	-
1990	Haines Criss-Cross Directory	-	X	X	-
1985	Haines Criss-Cross Directory	-	X	X	-
1980	Haines Criss-Cross Directory	-	X	X	-
1975	Haines Criss-Cross Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

AddressTypeFindingsWest Side Freeway (I-5)Client Entered

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

24776 Davis Road Newman, CA 95363

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Davis Road

Davis Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	No addresses within range	Haines Criss-Cross Directory
2004	No addresses within range	Haines Criss-Cross Directory
2000	No addresses within range	Haines Criss-Cross Directory
1995	No addresses within range	Haines Criss-Cross Directory
1990	No addresses within range	Haines Criss-Cross Directory
1985	No addresses within range	Haines Criss-Cross Directory
1980	No addresses within range	Haines Criss-Cross Directory
1975	No addresses within range	Haines Criss-Cross Directory

5476062-5 Page 3

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched Address Not Identified in Research Source

Davis Road No Years Found
West Side Freeway (I-5) No Years Found

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

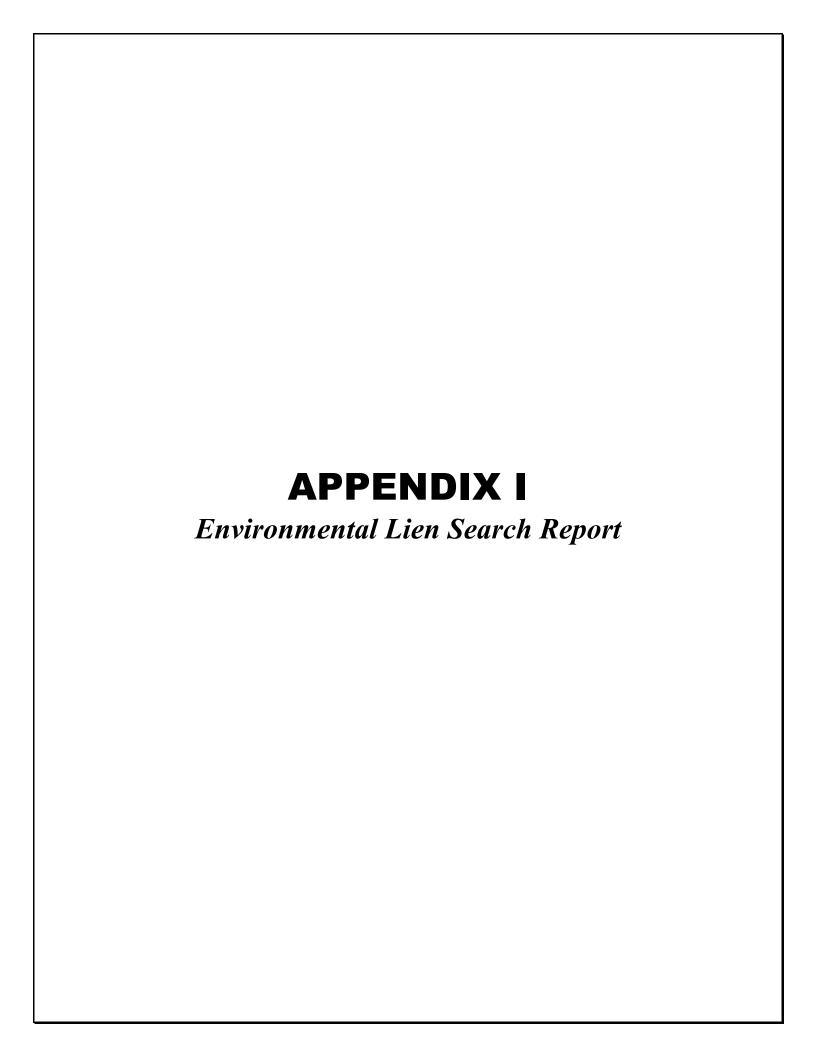
 Street Researched
 Street Not Identified in Research Source

 West Side Freeway (I-5)
 2009, 2004, 2000, 1995, 1990, 1985, 1980, 1975

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address ResearchedAddress Not Identified in Research Source24776 Davis Road2009, 2004, 2000, 1995, 1990, 1985, 1980, 1975





The NETR Environmental Lien and AUL Search Report

24776 DAVIS ROAD **NEWMAN, CALIFORNIA**

Wednesday, November 7, 2018

Project Number: L18-01897

2055 East Rio Salado Parkway Tempe, Arizona 85281

Telephone: 480-967-6752 Fax: 480-966-9422

The NETR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied property information to:

- search for parcel information and/or legal description;
- · search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' office, registries of deed, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties
 involved and description); and
- provide a copy of the deed or cite documents reviewed;

Thank you for your business

Please contact NETR at 480-967-6752 with any questions or comments

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The NETR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

24776 Davis Road Newman, California

RESEARCH SOURCE

Source: Stanislaus County Assessor

Stanislaus County Recorder

DEED INFORMATION

Type of Instrument: Individual Quit Claim Deed

Grantor: J. Keith aka James Keith Wells

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/10/1985 Deed Recorded: 06/13/1985

Instrument: 58505

Type of Instrument: Individual Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58506

Type of Instrument: Individual Quit Claim Deed

Grantor: Fred Beltran, Jr. and Daniel B. Taber

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58507

Type of Instrument: Individual Quit Claim Deed

Grantor: Payone and Wells, a joint venture

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58508

Type of Instrument: Individual Quit Claim Deed

Grantor: 4-C Harvesting, a general partnership

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58509

Type of Instrument: Quit Claim Deed

Grantor: Fred Vogel and Jill Carson Vogel, husband and wife

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 04/22/1997 Deed Recorded: 05/12/1997 Instrument: 97-0036101-00

Type of Instrument: Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran, Lessee

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 05/10/2001 Deed Recorded: 05/23/2001 Instrument: 2001-0053978-00

Comments: This quitclaim deed is given to relinquish all right, title and interest in and to subject property in connection with a Memorandum of Lease recorded 7/31/1974 in Book

26444, Page 891.

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in Sections 25, 35 and 36, Township 6 South, Range 7 East of the Mt Diablo Principal Meridian, Stanislaus County, State of California

Assessor's Parcel Number(s): 025-017-019

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found Not Found OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Notice of Administrative Conditions and Restrictions was filed on 3/22/2018 as Instrument 2018-0020070-00. This is not an Environmental Activity Use Limitation (AUL). Copy is attached.

TARGET PROPERTY INFORMATION

ADDRESS

24776 Davis Road Newman, California

RESEARCH SOURCE

Source: Stanislaus County Assessor

Stanislaus County Recorder

DEED INFORMATION

Type of Instrument: Individual Quit Claim Deed

Grantor: J. Keith aka James Keith Wells

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/10/1985 Deed Recorded: 06/13/1985

Instrument: 58505

Type of Instrument: Individual Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58506

Type of Instrument: Individual Quit Claim Deed

Grantor: Fred Beltran, Jr. and Daniel B. Taber

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58507

Type of Instrument: Individual Quit Claim Deed

Grantor: Payone and Wells, a joint venture

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58508

Type of Instrument: Individual Quit Claim Deed

Grantor: 4-C Harvesting, a general partnership

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58509

Type of Instrument: Quit Claim Deed

Grantor: Fred Vogel and Jill Carson Vogel, husband and wife

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 04/22/1997 Deed Recorded: 05/12/1997 Instrument: 97-0036101-00

Type of Instrument: Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran, Lessee

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 05/10/2001 Deed Recorded: 05/23/2001 Instrument: 2001-0053978-00

Comments: This quitclaim deed is given to relinquish all right, title and interest in and to subject property in connection with a Memorandum of Lease recorded 7/31/1974 in Book

26444, Page 891.

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in Section 1, Township 7 South, Range 7 East of the Mt Diablo Principal Meridian, Stanislaus County, State of California

Assessor's Parcel Number(s): 026-012-003

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Notice of Administrative Conditions and Restrictions was filed on 3/22/2018 as Instrument 2018-0020070-00. This is not an Environmental Activity Use Limitation (AUL). Copy is attached.

TARGET PROPERTY INFORMATION

ADDRESS

24776 Davis Road Newman, California

RESEARCH SOURCE

Source: Stanislaus County Assessor

Stanislaus County Recorder

DEED INFORMATION

Type of Instrument: Individual Quit Claim Deed

Grantor: J. Keith aka James Keith Wells

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/10/1985 Deed Recorded: 06/13/1985

Instrument: 58505

Type of Instrument: Individual Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58506

Type of Instrument: Individual Quit Claim Deed

Grantor: Fred Beltran, Jr. and Daniel B. Taber

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58507

Type of Instrument: Individual Quit Claim Deed

Grantor: Payone and Wells, a joint venture

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58508

Type of Instrument: Individual Quit Claim Deed

Grantor: 4-C Harvesting, a general partnership

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58509

Type of Instrument: Quit Claim Deed

Grantor: Fred Vogel and Jill Carson Vogel, husband and wife

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 04/22/1997 Deed Recorded: 05/12/1997 Instrument: 97-0036101-00

Type of Instrument: Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran, Lessee

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 05/10/2001 Deed Recorded: 05/23/2001 Instrument: 2001-0053978-00

Comments: This quitclaim deed is given to relinquish all right, title and interest in and to subject property in connection with a Memorandum of Lease recorded 7/31/1974 in Book

26444, Page 891.

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in Section 31, Township 6 South, Range 8 East of the Mt Diablo Principal Meridian, Stanislaus County, State of California

Assessor's Parcel Number(s): 027-017-063

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Notice of Administrative Conditions and Restrictions was filed on 3/22/2018 as Instrument 2018-0020070-00. This is not an Environmental Activity Use Limitation (AUL). Copy is attached.

TARGET PROPERTY INFORMATION

ADDRESS

24776 Davis Road Newman, California

RESEARCH SOURCE

Source: Stanislaus County Assessor

Stanislaus County Recorder

DEED INFORMATION

Type of Instrument: Individual Quit Claim Deed

Grantor: J. Keith aka James Keith Wells

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/10/1985 Deed Recorded: 06/13/1985

Instrument: 58505

Type of Instrument: Individual Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58506

Type of Instrument: Individual Quit Claim Deed

Grantor: Fred Beltran, Jr. and Daniel B. Taber

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58507

Type of Instrument: Individual Quit Claim Deed

Grantor: Payone and Wells, a joint venture

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58508

Type of Instrument: Individual Quit Claim Deed

Grantor: 4-C Harvesting, a general partnership

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58509

Type of Instrument: Quit Claim Deed

Grantor: Fred Vogel and Jill Carson Vogel, husband and wife

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 04/22/1997 Deed Recorded: 05/12/1997 Instrument: 97-0036101-00

Type of Instrument: Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran, Lessee

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 05/10/2001 Deed Recorded: 05/23/2001 Instrument: 2001-0053978-00

Comments: This quitclaim deed is given to relinquish all right, title and interest in and to subject property in connection with a Memorandum of Lease recorded 7/31/1974 in Book

26444, Page 891.

LEGAL DESCRIPTION

All that certain piece or parcel of land being Parcel 2, according to the map or plat thereof, as filed of record in Book 40, Page 57, Stanislaus County, State of California

Assessor's Parcel Number(s): 027-017-080

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Notice of Administrative Conditions and Restrictions was filed on 3/22/2018 as Instrument 2018-0020070-00. This is not an Environmental Activity Use Limitation (AUL). Copy is attached.

TARGET PROPERTY INFORMATION

ADDRESS

24776 Davis Road Newman, California

RESEARCH SOURCE

Source: Stanislaus County Assessor

Stanislaus County Recorder

DEED INFORMATION

Type of Instrument: Individual Quit Claim Deed

Grantor: J. Keith aka James Keith Wells

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/10/1985 Deed Recorded: 06/13/1985

Instrument: 58505

Type of Instrument: Individual Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58506

Type of Instrument: Individual Quit Claim Deed

Grantor: Fred Beltran, Jr. and Daniel B. Taber

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58507

Type of Instrument: Individual Quit Claim Deed

Grantor: Payone and Wells, a joint venture

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58508

Type of Instrument: Individual Quit Claim Deed

Grantor: 4-C Harvesting, a general partnership

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58509

Type of Instrument: Quit Claim Deed

Grantor: Fred Vogel and Jill Carson Vogel, husband and wife

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 04/22/1997 Deed Recorded: 05/12/1997 Instrument: 97-0036101-00

Type of Instrument: Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran, Lessee

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 05/10/2001 Deed Recorded: 05/23/2001 Instrument: 2001-0053978-00

Comments: This quitclaim deed is given to relinquish all right, title and interest in and to subject property in connection with a Memorandum of Lease recorded 7/31/1974 in Book

26444, Page 891.

LEGAL DESCRIPTION

All that certain piece or parcel of land being Parcel 3, according to the map or plat thereof, as filed of record in Book 40, Page 57, Stanislaus County, State of California

Assessor's Parcel Number(s): 027-017-082

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Notice of Administrative Conditions and Restrictions was filed on 3/22/2018 as Instrument 2018-0020070-00. This is not an Environmental Activity Use Limitation (AUL). Copy is attached.

TARGET PROPERTY INFORMATION

ADDRESS

24776 Davis Road Newman, California

RESEARCH SOURCE

Source: Stanislaus County Assessor

Stanislaus County Recorder

DEED INFORMATION

Type of Instrument: Individual Quit Claim Deed

Grantor: J. Keith aka James Keith Wells

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/10/1985 Deed Recorded: 06/13/1985

Instrument: 58505

Type of Instrument: Individual Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58506

Type of Instrument: Individual Quit Claim Deed

Grantor: Fred Beltran, Jr. and Daniel B. Taber

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58507

Type of Instrument: Individual Quit Claim Deed

Grantor: Payone and Wells, a joint venture

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58508

Type of Instrument: Individual Quit Claim Deed

Grantor: 4-C Harvesting, a general partnership

Grantee: Beltran Farms, a California corporation

Deed Dated: 05/09/1985 Deed Recorded: 06/13/1985

Instrument: 58509

Type of Instrument: Quit Claim Deed

Grantor: Fred Vogel and Jill Carson Vogel, husband and wife

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 04/22/1997 Deed Recorded: 05/12/1997 Instrument: 97-0036101-00

Type of Instrument: Quit Claim Deed

Grantor: John E. Beltran and Fred E. Beltran, Lessee

Grantee: Beltran Farms, a California corporation and Fred Beltran, Jr. and Sons, a California general

partnership

Deed Dated: 05/10/2001 Deed Recorded: 05/23/2001 Instrument: 2001-0053978-00

Comments: This quitclaim deed is given to relinquish all right, title and interest in and to subject property in connection with a Memorandum of Lease recorded 7/31/1974 in Book

26444, Page 891.

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in Section 31, Township 6 South, Range 8 East of the Mt Diablo Principal Meridian, Stanislaus County, State of California

Assessor's Parcel Number(s): 027-017-090

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Notice of Administrative Conditions and Restrictions was filed on 3/22/2018 as Instrument 2018-0020070-00. This is not an Environmental Activity Use Limitation (AUL). Copy is attached.

TARGET PROPERTY INFORMATION

ADDRESS

24776 Davis Road Newman, California

RESEARCH SOURCE

Source: Stanislaus County Assessor

Stanislaus County Recorder

DEED INFORMATION

Type of Instrument: Grant Deed

Grantor: Beltran Farms, a California corporation

Grantee: Pacific Gas and Electric Company, a California corporation

Deed Dated: 05/23/2016 Deed Recorded: 05/23/2016 Instrument: 2016-0037537-00

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Northwest Quarter of Section 31, Government Lot 2, Township 6 South, Range 8 East of the Mt Diablo Principal Meridian, Stanislaus County, State of California

Assessor's Parcel Number(s): 027-017-091

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

Notice of Administrative Conditions and Restrictions was filed on 3/22/2018 as Instrument 2018-0020070-00. This is not an Environmental Activity Use Limitation (AUL). Copy is attached.

	Ticor Title Insurance Company	058505 JUN 1385	051	1908
Name Street Addross City & State Name Street Address City & State City &	Beitran Farms 701 Fink Road Crows Landing, CA 95313 MAIL TAX STATEMENTS TO Same as above AT. NO. NN90360 D 1922 CA (2-82) This For	dual Quitcialm Deed		-12 1
ALL ALL PTN.	Documentary transfer tax is \$ None () computed on full value of property of () computed on full value less value of it () Unincorporated area: () City of FOR A VALUABLE CONSIDERATION, rec J. KEITH aka JAMES KEITH WELLS	iens and encumbrances remaining at tis	, and	
Control of the contro	hereby REMISES, RELEASES AND QUITCE BELTRAN FARMS, a California corpora the following described real property in the County of Stanislaus	tion		
And the second s	SEE EXHIBIT "A" ATTACHED HER		(71 July 13 85
. 5	Dated: May 10th, 1985	JAMES KEITH HELLS	Wills	
	me, the undersigned, a Notary Public in and for sa personally appeared	SS. before aid State,		
	personally known to me or proved to me on the basisfactory evidence to be the personwhose name_subscribed to the within instrument and acknown thatexecuted the same. WITNESS my hand and official seal. Signature	owledged		Mary and Address of the State of State
.			a for official notarial sea	4)>
1	Title Order No	Escrow or Loan No. 144302-T		

No. 144302-T

SCHEDULE C

All that certain real property situate in the County of Stanislaus, State of California, described as follows:

All that portion of the North half of Section 1, Township 7 South, Range 7 East, Mount Diable Base and Meridian, described as follows:

BEGINNING at the Northwest corner of Section 1. Township and Range aforesaid; thence North 89° 55' East 2694.57 feet along the North of Section 1 to a 33" pipe; thence South 41" 14' West, 992 feet to a 33" pipe: thence North 88" 67' West, 465 feet to a 33" pipe; thence North 54° 17' West, 470 feet; thence South 64" 59' West, A30 feet; thence North 80° 18' West, 550 feet; thence North 00° 11' West 203 feet; thence South 52° 01' West 263.5 fest; thence North 00° 19' West, 373 feet along the West line of said Section 1 to the place of beginning.

PARCEL NO. 2: The South half of the Southwest quarter and the Southwest quarter of the Southeast quarter of Section 25, Township 6 South, Range 7 East, Mount Diablo Base and Meridian; the Northeast quarter and the North half of the Southeast quarter of Section 35, Township 6 South, Range 7 East, Mount Diablo Base and Meridian; and all of Section 36, Township 6 South, Range 7 East, Mount Diable Base and Meridian.

EXCEPTING all that pertion of said Section 36, Township 6 South, Range 7 East, Mount Diablo Base and Meridian, described as follows:

BEGINNING at the Southeast corner of said Section 36; thence North 00° 03' West, 2044.00 feet along the East line of Section 36 to a 33" pipe; thence South 38° 24' West 98.42 feet; thence South 15° 14' West, 229 feet; thence South 33° 22' West, 210 feet; thence South 65° 02' West, 495 feet; thence South 46° 46' West, 255 feet to a 33" pipe; thence South 82° 06' West, 160 feet; thence South 45° 29' West, 325 feet; thence South 55° 12' West, 370 feet; thence South 23° 51' West, 210 feet; thence South 34° 34' West, 250 feet; thence South 42° 25' West, 310 feet; thence South 79° 08' West, 576.4 feet to a 33" pipe; thence North 89° 55' East, 2566 feet along the South line of said Section 36 to a concrete monument at the point of beginning.

-15-

		
	STATE OFCALIFORNIA)	
•	County ofSTANIS! AUS) ss.	0 5
	On May 22, 1985 , before me, the undersigned a notary public in and for said County and State, personally appearedJames Keith Wells	8 5 0
	personally known to me an armenal taxous your the sharisker fractive fracti	S
	he subscribed to the within instrument, and acknowledged to me thathe executed the same.	₹
	COFFICIAL NEAL	ಪ
	GLORIA A. THOMPSON NOTARY PUBLIC - CALIFORNIA STANISLAUS COUNTY My Commusion Engines June 14, 1886	25
	Gloria a. Thomasa	
	Form 132! (Rev. 7-83) FLB Sacramento - Notanal Acknowledgment - Individual My Commission Expires June 14, 1985	

No. 144302-T

PARCEL NO. 3: BEGINNING at the Southeast corner of Section 25, Township 6 South, Range 7 East, Mount Diablo Base and Heridian; thence North 89° 08' 38" West, along the Southerly line of said Section 25, a distance of 1317.54 feet to the Southeast corner of the Southwest one-quarter of the Southeast one-quarter of said Section 25; thence North 1° 52' 42" East, along the Easterly line of the Southwest one-quarter of the Southeast one-quarter of said Section 25, a distance of 1312.81 feet to the Northeast corner of said Southwest one-quarter of the Southeast one-quarter of Section 25; thence Herch 89" 00' 54" West, along the Mortherly Item of said Southwest one-quarter of the Southeast one-quarter of Section 25, and the Mortherly line of the South one-half of the Southwest one-quarter of said Section 25, a distance of 3950.79 feet to the Westerly Line of said Section 25; thence North 1° 43' 01" East, along said Westerly line, a distance of 2594.50 feet; thence South 60° 54° 31" East. a distance of 615.68 (cct; thence South 59° 51' 27" East, a distance of 915.10 feet; themee South 60° 38' 49" East, a distance of 1309.00 feet; thence South 49° 95' 24" East, a . distance of 3942.53 feet; thence South 0° 51' 22" West, a distance of 13.29 feet to the Southerly line of Section 30, Township 6 South, Range 8 East, Mount Diablo Hase and Meridia thence Borth 89° 17' 16" West, along the Southerly line of said Section 30, a distance of 304.06 feet to the Southwest corner of said Section 30, same also being the Southeast corn-

EXCEPTING THEREFROM all that portion thereof lying within Section 30, Township 6 South.

of said Section 25 and the point of beginning of this description.

058505 JW 13

PARCEL NO. 4:

. . .

An easement for ingress and egress over an existing road and over the following described property:

The East one-half and the East half of the Southwest quarter of Section 30; the Northeast quarter, and the Nortwest fractional quarter of Section 31, all in Township 6 South, Range 8 East, Mount Diablo Base and Meridian.

EXCEPTING THEREFROM the following;

CONNENCING at the Northwest corner of the Northeast quarter of said Section 30, and running thence East 11.63 chains; thence South $15\frac{1}{2}^{0}$ West 13 chains; thence South $64\frac{1}{2}^{0}$ West 8.98 chains; thence North 16.40 chains to the point of commencement.

ALSO EXCEPTING THEREFROM all that portion lying Easterly of the Westerly line of Parcel A as described in the Deed from Ruth E. Dihel, also known as Ruth Dihel, a widow, to the State of California, recorded October 14, 1964 in Book 1984, page 1 of Official Records, as Instrumen No. 41035.

ALSO EXCEPTING THEREFROM all that portion conveyed to the State of California, by Deed recorded October 22, 1964 in Book 1986, page 191 of Official Records, as Instrument No. 42174.

The location of the road is as follows: Said roadway begins at the section corner commons to sections 19, 20, 29, and 30, Township 6 South, Range B East, Mount Diablo Base and Meridian, which is also the intersection of the roads commonly known as Fink Road and Davis Road; thence south, along the sectional lines of Sections 29 and 30 to the northeast corner of the southeast quarter of the southeast quarter; then west along the northern boundary of the southeast quarter of the southeast quarter to a point, said point being the eastern boundary of the property owned by Beltran Farms, trustor of this deed of trust, thence continuing west along the northern boundary of the southeast quarter and southwest quarter of the southeast quarter of section 30 to a point: said point being located 10 feet east of the mid-section line of section 30: thence said roadway, being 20 feet wide, with the following description being the center of said roadway, continuing south parallel and 10' east of the mid-section line for section 30 to the sectional line of sections 30 and 31: then continuing south to a point for a distance of 10 feet; thence continuing west 3373 feet, parallel and 10 feet south of the sectional line dividing sections 30 and 31 to a point, said point to be the eastern sectional line of section 36, Township 6 South, Range 7 East and the termination point of this legal description.

58505 JUN 1385

END OF DOCUMENT

)	icor Title Insurance Company	05850	6 JUN 13 85	051	1912	
Street 70 Address Cr City & State L Name Street	eltran Farms)1 Fink Road rows Landing, CA 95313 MAIL TAX STATEMENTS TO	OFFICIAL STANISLAUS	LE INS. CO.			
City & State	THE AS ADOVE	Survey	Monument Fee	\$10.00		
TO 192	Individual Co. NN000800 (2 CA (2-82) This Form	dual Qui	CE ABOVE THIS LIFT CLAIM DEC	d 25-1	7.51 9	
PTN () computed on full value of property co) computed on full value less value of li) Unincorporated area: () City of	iens and encun		,	and	
he B	OR A VALUABLE CONSIDERATION, recoon of the control	LAIMS to		·t		
	SEE EXHIBIT "A" ATTACHED HERE	eto and made	A PART HEREOF		TI) b Jun 13 (
	(Affects Parcels 2 & 4)					-
D	etcd: May 9, 1985	(JOHN E. BELTRAN	betun		_
O m	TATE OF CALIFORNIA OUNTY OF Stanislaus May 15, 1985 ee, the undersigned a Notary Public in and for st ersonally appeared John E. Beltran and Fred E. Beltran ersonally known to me or proved to me on the ba	said State,	FRED E. BELTRAN	Bether		_
is su ti	ofactory evidence to be the person s whose name ubscribed to the within instrument and acknow they executed the same. WINESS my hand and official scal. Gignature Gloua A Hongoston My Commission Expires June	s are nowledged	•	OFFICIAL SE GLORIA A. THO HOTARY PUBLIC - OU STANISHING OF STANISHING OF STANISHING OF	MPSON	
				This area for official	notarial seal)	
Titl	le Order No	Escre	w or Loan No. 144	JUZ- I		-

PARCEL NO. 2:

Exh. b: + A

1913

The South half of the Southwest quarter and the Southwest quarter of the Southwest quarter of Section 25, Township 6 South, Range 7 East, Mount Diablo Base and Heridian; the Northeast quarter and the North half of the Southeast quarter of Section 35, Township 6 South, Range 7 East, Mount Diablo Base and Meridian; and all of Section 36, Township 6 South, Range 7 East, Mount Diablo Base and Meridian.

EXCEPTING all that portion of said Section 36, Township 6 South, Range 7 East, Mount Diable Base and Meridian, described as follows:

BEGINNING at the Southcast corner of said Section 36; thence North 00° 03' West, 2044.00 feet along the East line of Section 36 to a 33" pipe; thence South 38° 24' West 98.42 feet; thence South 15° 14' West, 229 feet; thence South 33° 22' West, 210 feet; thence South 65° 02' West, 495 feet; thence South 46° 46' West, 255 feet to a 33" pipe; thence South 82° 06' West, 150 feet; thence South 45° 29' Nest, 325 feet; thence South 55° 12' West, 370 feet; thence South 23° 51' West, 210 feet; thence South 34° 34' West, 250 feet; thence South 42° 25' West, 310 feet; thence South 79° 06' West, 576.4 feet to a 33" pipe; chence North 89° 55' East, 2566 feet along the South line of said Section 36 to a concrete manument at the point of beginning.

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PARCEL NO. 4:

An essement for ingress and egress over an existing road and over the following described property:

The East one-half and the East half of the Southwest quarter of Section 30; the Northeast quarter, and the Nortwest fractional quarter of Section 31, all in Township 6 South, Range 8 East, Mount Diablo Base and Meridian.

EXCEPTING THEREFROM the following;

COMMENCING at the Northwest corner of the Northeast quarter of said Section 30, and running thence East 11.63 chains; thence South $15\frac{1}{2}^{\circ}$ West 13 chains; thence South $64\frac{1}{2}^{\circ}$ West 8.98 chains; thence North 16.40 chains to the point of commencement.

ALSO EXCEPTING THEREFROM all that portion lying Easterly of the Westerly line of Parcel A as described in the Deed from Ruth E. Dihel, also known as Ruth Dihel, a widow, to the State of California, recorded October 14, 1964 in Book 1984, page 1 of Official Records, as Instrument No. 41035.

ALSO EXCEPTING THEREFROM all that portion conveyed to the State of California, by Deed recorded October 22, 1964 in Book 1986, page 191 of Official Records, as Instrument No. 42174.

The location of the road is as follows: Said roadway begins at the section corner commons to sections 19, 20, 29, and 30, Township 6 South, Range B East, Mount Diablo Base and Meridian, which is also the intersection of the roads commonly known as Fink Road and Davis Road; thence south, along the sectional lines of Sections 29 and 30 to the northeast corner of the southeast quarter of the southeast quarter; then west along the northern boundary of the southeast quarter of the southeast quarter to a point, said point being the eastern boundary of the property owned by Beltran Farms, trustor of this deed of trust, thence continuing west along the northern boundary of the southeast quarter and southwest quarter of the southeast quarter of section 30 to a point: said point being located 10 feet east of the mid-section line of section 30: thence said roadway, being 20 feet wide, with the following description being the center of said roadway, continuing south parallel and 10' cast of the mid-section line for section 30 to the sectional line of sections 30 and 31: then continuing south to a point for a distance of 10 feet; thence continuing west 3373 feet, parallel and 10 feet south of the sectional line dividing sections 30 and 31 to a point, said point to be the eastern sectional line of section 36, Township 6 South, Range 7 East and the termination point of this legal description.

Title Order No.

Escrow or Loan No. 144302-T

(This area for official notarial scal)

	9161 120
STATE OF CALIFORNIA)	
County of STANISLAUS ss.	
On May 15, 1985 before n County and State, personally appeared Fred Beltran	ne, the undersigned, a notary public in and for said
personally known to me an appeared to the state of the st	
i.s subscribed to the within instrument, and acknowled	ged to me thathe executed the same.
OFFICIAL NEAL	
STANISLAUS COUNTY	
My Commence Explica Same 14, 1985	a. Pal
	Maria (Maria 220)
	Notary Public in an for said June 14 1985

	STATE OFCALIFORNIA)	
-	County ofSTANISLAUS) ss.	
	On May 21, 1985, before me, the undersigned, a notary public in and for said	
	personally known to me er proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) he subscribed to the within instrument, and acknowledged to me thathe executed the same.	8507
	GLORIA A. THOMPSON NOTARY PUBLIC - CALIFORNIA STANIBLAUS GOUNTY Wy Commission Engine 16, 1888	38 E! NUL
	Form 1321 (Rev. 7-83) FLB Sacramento - Notarial Acknowledgment - Individual Notary Public in and for said County and State June 14, 1985 My Commission F and State	

S

8507

SCHEDULE C

All that certain real property situate in the County of Stanislaus, State of California, described as follows:

PARCEL NO. 1:

All that portion of the Morth half of Section 1, Township 7 South, Kange 7 East, Mount Diable Rase and Meridian, described as follows:

BEGIRNING at the Morthwest corner of Section 1, Township and Range aforesaid; thence North 89° 55' East 2494.5? feet along the Rorth of Section 1 to a 33" pipe; thence South 41° 14' Hest, 792 feet to a 33" pipe; thence North 88° 07' West, 465 feet to a 33" pipe; thence North 80° 07' West, 465 feet to a 33" pipe; thence North 80° 18' West, 550 feet; thence North 80° 18' West, 550 feet; thence North 80° 11' West 203 feet; thence South 82° 01' West 263.5 feet; thence North 80° 19' West, 373 feet along the West line of said Section 1 to the place of beginning.

PARCEL NO. 2:

The South half of the Southwest quarter and the Southwest quarter of the Southeast quarter of Section 25, Township 6 South, Range 7 East, Mount Diablo Base and Heridian; the Northeast quarter and the North half of the Southeast quarter of Section 35, Township 6 South, Range 7 East, Mount Diablo Base and Heridian; and all of Section 36, Township 6 South, Range 7 East, Mount Diablo Base and Heridian.

EXCEPTING all that portion of said Section 36, Township 6 South, Range 7 East, Mount Diablo Base and Meradian, described as follows:

BEGINNING at the Southcast corner of said Section 36; thence North 00° 03' West, 2044.00 feet along the East line of Section 36 to a 33" pipe; thence South 38° 24' West 98.42 feet; thence South 15° 14' West, 229 feet; thence South 33° 22' West, 210 feet; thence South 65° 02' West, 495 feet; thence South 46° 46' West, 255 feet to a 33" pipe; thence South 82° 06' West, 160 feet; thence South 45° 29' West, 325 feet; thence South 55° 12' West, 370 feet; thence South 23° 51' West, 210 feet; thence South 34° 34' West, 250 feet; thence South 42° 25' West, 310 feet; thence South 79° 08' West, 576.4 feet to a 33" pipe; thence North 89° 55' East, 2566 feet along the South line of said Section 36 to a concrete Wonument at the point of beginning.

No. 144302-T

PARCEL NO. 3: BEGIRNING at the Southeast corner of Section 25, Township 6 South, Range 7 East, Hounz Biable Base and Nortdian; thouce North 89' 08' 38" West, along the Southerly line of said Section 25, a distance of 1317.54 feet to the Southeast corner of the Southwest one-cuarter of the Southeast one-quarter of said Section 25; thence North 1" 52' 42" East, along the Easterly line of the Southwest one-quarter of the Southeast one-quarter of said Section 25. a distance of 1312.81 feet to the Northeast corner of said Southwest one-quarter of the Southeast one-quarter of Section 25; thence North 89° 60' 54" West, along the Northerly line of said Southwest one-quarter of the Southeast one-quarter of Section 25, and the Mortherly line of the South one-half of the Southwest one-quarter of said Section 25, a distance of 1950.79 feet to the Westerly line of said Section 25; thence North 1° 43' M" East, along said Mesterly line, a distance of 2594.50 feet; thence South 60° 54' 31" East, a distance of 615.68 feet; thence South 59° 51' 27" East, a distance of 915.10 feet; thence South 60° 38' 49" East, a distance of 1309.00 Jeet; thence South 49° 95' 24" East, a distance of 3942.53 feet; thence South 0° 51' 22" West, a distance of 13.29 feet to the Southerly line of Section 30, Township 6 South, Range 8 East, Mount Bieblo Base and Herida: thence North 89° 17' 16" West, along the Southerly line of said Section 30, a distance of 304.06 feet to the Southwest corner of said Section 30, same also being the Southeast corn of said Section 25 and the point of beginning of this description.

EXCEPTING THEREFROM all that portion thereof lying within Section 30, Township 6 South.

058507 JW 13

PARCEL NO. 4:

An easement for ingress and egress over an existing road and over the following described property:

The East one-half and the East half of the Southwest quarter of Section 30; the Northeast quarter, and the Nortwest fractional quarter of Section 31, all in Township 6 South, Range 8 East, Mount Diablo Base and Meridian.

EXCEPTING THEREFROM the following;

COMMENCING at the Northwest corner of the Northeast quarter of said Section 30, and running thence East 11.63 chains; thence South 15½° West 13 chains; thence South 64½° West 8.98 chains; thence North 16.40 chains to the point of commencement.

ALSO EXCEPTING THEREFROM all that portion lying Easterly of the Westerly line of Parcel A as described in the Deed from Ruth E. Dihel, also known as Ruth Dihel, a widow, to the State of California, recorded October 14, 1964 in Book 1984, page 1 of Official Records, as Instrument No. 41035.

ALSO EXCEPTING THEREFROM all that portion conveyed to the State of California, by Deed recorded October 22, 1964 in Book 1986, page 191 of Official Records, as Instrument No. 42174.

The location of the road is as follows: Said roadway begins at the section corner commons to sections 19, 20, 29, and 30, Township 6 South, Range 8 East, Mount Diablo Base and Meridian, which is also the intersection of the roads commonly known as Fink Road and Davis Road; thence south, along the sectional lines of Sections 29 and 30 to the northeast corner of the southeast quarter of the southeast quarter; then west along the northern boundary of the southeast quarter of the southeast quarter to a point, said point being the eastern boundary of the property owned by Beltran Farms, trustor of this deed of trust, thence continuing west along the northern boundary of the southeast quarter and southwest quarter of the southeast quarter of section 30 to a point: said point being located 10 feet east of the mid-section line of section 30: thence said roadway, being 20 feet wide, with the following description being the center of said roadway, continuing south perallel and 10' east of the mid-section line for section 30 to the sectional line of sections 30 and 31: then continuing south to a point for a distance of 10 feet; thence continuing west 3373 feet, parallel and 10 feet south of the sectional line dividing sections 30 and 31 to a point, said point to be the eastern sectional line of section 36, Township 6 South, Range 7 East and the termination point of this legal description.

END OF DOCUMENT

058507 JUN 1385

26-12-03

Ticor Title Insurance Company AND WHEN RECORDED MAIL TO	058508 JUN 1385
Name Beltran Farms 701 Fink Road Address Crows Landing, CA 95313 City & State	TICOR TITLE INS. CO.
Nanie Street Address Same as above	OFFICIAL RECORDS STANISLAUS CO., CALIF. DAVID A. WURM, RECORDER
City &	Survey Monument Fee \$10.00 space above this line for recorder's use.
The undersigned grantor(s) declare(s): Documentary transfer tax is \$ None () computed on full value of property	conveyed, or liens and encumbrances remaining at time of sale. and eccipt of which is hereby acknowledged,

				058508
			. 4 64	- JUN 130 AS
_	_	_		·
		_		

_					051	1921
	STATE OF	CALIFORNIA)			
	County of	STANISLAUS) ss.)			
	On Ma County and Sta	y 22, 1985 te, personally appeare	d	before me. the	undersigned, a notary	public in and for said
	personally know	n to me axpraxed to	rument, and	benievak satisfast acknowledged to	oryzenidence to be the pome that	erson(s) whose name(s) secuted the same.
	CONTROL 155002213296144	O. TICIAL SEAL	"1			

GLORIA A. THOMPSON NOTARY PUBLIC - CALIFORNIA STANIBLAUS COUNTY My Commission Explores June 14, 1885

Form 1321 (Rev. 7-83) FLB Sacramento - Notarial Acknowledgment - Individual

Notary Public in and for said County and State
My Commission Expires June 14, 1985

STATE OFCALIFORNIA)
County of STANISLAUS) ss.
On May 22, 1985 , before me, the undersigned, a notary public in and for said County and State, personally appearedPhil Payone
personally decreases proved to me on the basis of satisfactory evidence to be the person(s) whose name(s)he subscribed to the within instrument, and acknowledged to me thathe executed the same.
OFFICIAL SEAL GLORIA A. THOMPSON NOTARY PUBLIC - CALIFORNIA STANISLAUS GOUNTY By Committing Explice Just 14, 1009
House (1/ May near)

No. 144302-T

SCHEDULE C

All that certain real property situate in the County of Stanislaus, State of California, described as follows:

PARCEL NO. 1:

All that portion of the North half of Section 1, Township 7 South, Range 7 East, Mount Diable Rase and Meridian, described as follows:

BEGINNING at the Northwest corner of Section 1, Township and Range aforesaid; thence North 89° 55' East 2694.5? feet along the North of Section 1 to a 33" pipe; thence South 41° 14' West, 992 feet to a 33" pipe; thence North 86° 07' West, 465 feet to a 33" pipe; thence North 54° 17' West, 470 feet; thence South 64° 59' West, 430 feet; thence North 80° 18' West, 550 feet; thence North 90° 11' West 203 feet; thence South 82° 01' West 263.5 feet; thence North 90° 19' West, 373 feet along the West line of said Section 1 to the place of beginning.

PARCEL NO. 2:

The South half of the Southwest quarter and the Southwest quarter of the Southeast quarter of Section 25, Township 6 South, Range 7 East, Mount Diablo Base and Meridian; the Northeast quarter and the North half of the Southeast quarter of Section 35, Township 6 South, Range 7 East, Mount Diablo Base and Meridian; and all of Section 36, Township 6 South, Range 7 East, Mount Diablo Base and Meridian.

EXCEPTING all that pertion of said Section 36, Township 6 South, Range 7 East, Houst Diablo Base and Meridian, described as follows:

BEGINNING at the Southcast corner of said Section 36; thence North 00° 03' West, 2044.00 feet along the East line of Section 36 to a 33" pipe; thence South 38° 24' West 98.42 feet; thence South 15° 14' West, 229 feet; thence South 33° 22' West, 210 feet; thence South 65° 02' West, 495 feet; thence South 46° 46' West, 255 feet to a 33" pipe; thence South 82° 06' West, 160 feet; thence South 45° 29' West, 325 feet; thence South 55° 12' West, 370 feet; thence South 23° 51' West, 210 feet; thence South 34° 34' West, 250 feet; thence South 42° 25' West, 310 feet; thence South 79° 08' West, 576.4 feet to a 33" pipe; thence North 89° 55' East, 2566 feet along the South line of said Section 36 to a concrete monument at the point of beginning.

No. 144302-T

PARCEL NO. 3:

BECHNING at the Southeast corner of Section 25, Township 6 South, Range 7 East, Mount Diablo Base and Meridian; thence Worth 89° 08' 38" West, along the Southerly line of said Section 25, a distance of 1317.54 feet to the Southeast corner of the Southwest one-quarter of the Southeast one-quarter of said Section 25; thence North 1° 52' 42" East, along the Easterly line of the Southwest one-quarter of the Southeast one-quarter of said Section 25. a distance of 1312.81 feet to the Mortheast corner of sold Southwest one-quarter of the Southeast one-quarter of Section 25; thence North 89° 00' 54" West, along the Mortherly line of said Southwest one-quarter of the Southeast one-quarter of Section 25, and the Mortherly line of the South one-half of the Southwest one-quarter of said Section 25, a distance of 3950.79 feet to the Westerly line of said Section 25; thence North 1° 42' 01" East, along said Westerly line, a distance of 2594.50 feet; thence South 60° 54' 31" East. a distance of 615.68 feet; thence South 59° 51' 27" East, a distance of 915.10 feet; thence South 60° 38' 49" East, a distance of 1309.00 feet; thence South 49° 05' 24" East, a distance of 3942.53 feet; thence South 0° 51' 22" West, a distance of 13.29 feet to the Southerly line of Section 30, Township 6 South, Range 8 East, Hount Diable Base and Heridia thence North 89° 17' 16" West, along the Southerly line of said Section 30, a distance of 304,06 feet to the Southwest corner of said Section 30, same also being the Southeast cornof said Section 25 and the point of beginning of this description.

EXCEPTING THEREFROM all that portion thereof lying within Section 30, Township 6 South.

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- CONTINUED -

PARCEL NO. 4:

An easement for ingress and egress over an existing road and over the following described property:

The East one-half and the East half of the Southwest quarter of Section 30; the Northeast quarter, and the Nortwest fractional quarter of Section 31, all in Township 6 South, Range 8 East, Mount Diablo Base and Meridian.

EXCEPTING THEREFROM the following;

COMMENCING at the Northwest corner of the Northeast quarter of said Section 30, and running thence East 11.63 chains; thence South 15½° West 13 chains; thence South 64½° West 8.98 chains; thence North 16.40 chains to the point of commencement.

ALSO EXCEPTING THEREFROM all that portion lying Easterly of the Westerly line of Parcel A as described in the Deed from Ruth E. Dihel, also known as Ruth Dihel, a widow, to the State of California, recorded October 14, 1964 in Book 1984, page 1 of Official Records, as Instrument No. 41035.

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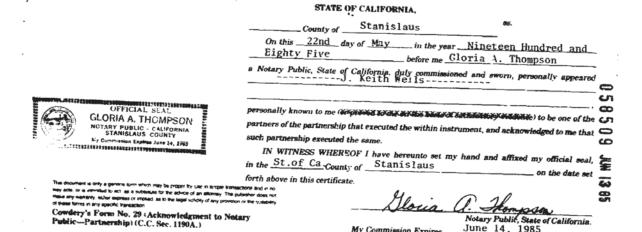
The location of the load is as follows: Said roadway begins at the section corner commons to sections 19, 20, 29, and 30, Township 6 South, Range 8 East, Mount Diablo Base and Meridian, which is also the intersection of the roads commonly known as Fink Road and Davis Road; thence south, along the sectional lines of Sections 29 and 30 to the northeast corner of the southeast quarter of the southeast quarter; then west along the northern boundary of the southeast quarter of the southeast quarter to a point, said point being the eastern boundary of the property owned by Beltran Farms, trustor of this deed of trust, thence continuing west along the northern boundary of the southeast quarter and southwest quarter of the southeast quarter of section 30 to a point; said point being located 10 feet east of the mid-section line of section 30: thence said roadway, being 20 feet wide, with the following description being the center of said roadway, continuing south parallel and 10 east of the mid-section line for section 30 to the sectional line of sections 30 and 31: then continuing south to a point for a distance of 10 feet; thence continuing west 3373 feet, parallel and 10 feet south of the sectional line dividing sections 30 and 31 to a point, said point to be the eastern sectional line of section 36, Township 6 South, Range 7 East and the termination point of this legal description.

END OF DOCUMENT

058508 JW 8

RECORDING REQUESTED BY	058509 JUN 1385	051	1925
· Ticor Fitle Insurance Company		031	
AND WHEN RECORDED MAIL TO			
F	٦		
Name Beltran Farms	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Street 701 Fink Road Address Crows Landing, CA 95313	RECORDED AT BY		
City & State	TICOR TITLE INS. CO.		
MAIL TAX STATEMENTS TO	OFFICIAL PECOPPS /C		
Γ	STANISLAUS CO., CALIF.		
Nome	DAVID A. WURM, RECORDER		
straet Address same as above			
City & State L	J Survey Monument Fee \$1	.0.00	
Dortner	SPACE AROVE THIS I IN	FOR RECORDER	-
CAT. NO. NNOOSS4	PHILD MUTUCIANTE DOWN	25-17-1	
The undersigned grantor(s) declare(s):	-		
Downwaren menefor my is Mann	*		
() computed on full value of proper () computed on full value less value	of licas and encumbrances remaining a	at time of sale.	
() Unincorporated area: () City	of	, an	d
FOR A VALUABLE CONSIDERATION	, receipt of which is hereby acknowled	ged,	
4-C HARVESTING		_	
a General partnership of hereby REMISES, RELEASES AND QU	organized under the laws of the State of ITCLAIMS to	f	
BELTRAN FARMS, a California cor	poration		
the following described real property in the County of Stanislaus	the Oakflat Irrigation Distric , State of California.	t	
- A			
SEE EXHIBIT "A" ATTA	CHED HERETO AND MADE A PART HE	REOF	
Dated: May 9th, 1985	— 4°C HARVES	TING a Parter	ership
į.	By \	- LUMB	Partner
	Ву	Hal	<u> </u>
STATE OF CALIFORNIA			Partner
COUNTY OF	} ss.		
on me, the undersigned, a Notary Public in and	before for said		
State, personally appeared			
.]			
personally known to me or proved to me on of satisfactory evidence to be the person			
of the partners of the partnership that execu	our distributed in		
within instrument, and acknowledged to me to partnership executed the same.			
WITNESS my hand and official scal.			
Signature			
		is area for official nota	rial seal)
Title Order No.		02-T	

	0.5	!	1926	
STATE OF CALIFORNIA				
County of STANISLAUS) ss.				_
On May 29, 1985 before me, County and State, personally appeared county and State, personally appeared county and State, personally appeared county and State, personally appeared county and state appeared county and state appeared county and state appeared county and state appeared county and state appeared county and state appeared county and state appeared county and state appeared county appeared county and state appeared county appeared county appeared county appeared county appeared county appeared county appeared county appeared county appeared county appeared county and state appeared county	the undersigned, a notary	public	in and for said	1585
				-
personally denown to me proved to me on the basis of satisfac				
prisonally decompany to me on the basis of satisfac within instrument on behalf of the partnership, and acknowledge				
within instrument on behalf of the partnership, and acknowledge				
within instrument on behalf of the partnership, and acknowledge				- NUL B
within instrument on behalf of the partnership, and acknowledge OFFICIAL SEAL GLORIA A. THOMPSON NOTARY PUBLIC - CALIFORNIA	d to me that the partnersh	ip execu	ited the same.	- NUL B
within instrument on behalf of the partnership, and acknowledge OFFICIAL SEAL GLORIA A. THOMPSON NOTARY 2UBLIC - CALIFORNIA STANISLAUS COUNTY W/ Compaigner Expliration \$14.1885		Thor	ted the same.	- NUL B



My Commission Expires.

Notary Public, State of California. June 14, 1985

No. 144302-T

SCHEDULE C

All that certain real property situate in the County of Stanislaus, State of California, described as follows:

PARCEL NO. 1:

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BEGINNING at the Worthwest corner of Section 1, Township and Range aforesmid; thence North 89° 55' East 2694.57 feet along the North of Section 1 to a 33" pipe; thence South 41° 14' West, 992 feet to a 33" pipe; thence North 88° 07' West, 465 feet to a 33" pipe; thence North 54° 17' West, 470 feet; thence South 64° 59' West, 430 feet; thence North 80° 18' West, 550 feet; thence North 80° 11' West 203 feet; thence South 82° 01' West 263.5 feet; thence North 80° 19' West, 373 feet along the West line of said Section 1 to the place of Deginning.

PARCEL NO. 2:

The South half of the Southwest quarter and the Southwest quarter of the Southeast quarter of Section 25, Township 6 South, Range 7 East, Mount Diablo Base and Heridian; the Northeast quarter and the North half of the Southeast quarter of Section 35, Township 6 South, Range 7 East, Mount Diablo Base and Meridian; and all of Section 36, Township 6 South, Range 7 East, Mount Diablo Base and Meridian.

EXCEPTING all that pertion of said Section 36, Township 6 South, Range 7 East, Mount Diablo Base and Meridian, described as follows:

BEGINNING at the Southcast corner of said Section 36; thence North 00° 03' West, 2044.00 feet along the East line of Section 36 to a 33" pipe; thence South 38° 24' West 98.42 feet; thence South 15° 14' West, 229 feet; thence South 33° 22' West, 210 feet; thence South 65° 02' West, 495 feet; thence South 46° 46' West, 255 feet to a 33" pipe; thence South 82° 06' West, 160 feet; thence South 45° 29' West, 325 feet; thence South 55° 12' West, 370 feet; thence South 23° 51' West, 210 feet; thence South 34° 34' West, 270 feet; thence South 42° 25' West, 310 feet; thence South 79° 08' West, 576.4 feet to a 33" pipe; thence North 89° 55' East, 2566 feet along the South line of said Section 36 to a concrete monument at the point of beginning.

No. 144302-T

PARCEL NO. 3:

BEGIRNING at the Southcast corner of Section 25, Township 6 South, Range 7 East, Mount Diablo Base and Meridian; thence North 89° 08' 38" West, along the Southerly line of said Section 25, a distance of 1317.54 feet to the Southeast corner of the Southwest one-quarter of the Southeast one-quarter of said Section 25; thence North 1° 52' 42" East, along the Easterly line of the Southwest one-quarter of the Southeast one-quarter of said Section 25. a distance of 1312.81 feet to the Northeast corner of said jouthwest one-quarter of the Southeast one-quarter of Section 25; thence North 89° 60' 54" West, along the Wortherly Ifne of said Southwest one-quarter of the Southeast one-quarter of Section 25, and the Mortherly line of the South one-half of the Southwest one-quarter of said Section 25, a distance of 3950,79 feet to the Westerly line of said Section 25; thence North 1° 43' 01" East, along said Westerly line, a distance of 2594.50 feet; thence South 60° 54' 31" East. a distance of 615.68 (cct; thence South 59° 51' 27" East, a distance of 915.10 feet; thence South 60° 38' 49" East, a distance of 1309.00 feet; thence South 49° 05' 24" East, a . distance of 3942.53 feet; thence South 0° 51' 22" West, a distance of 13.29 feet to the Sautherly line of Section 30, Township 6 South, Range 8 East, Mount Diable Base and Heridi: thence North 89° 17' 16" West, along the Southerly line of said Section 30, a distance of 304.06 feet to the Southwest corner of said Section 30, same also being the Southeast cornof said Section 25 and the point of beginning of this description.

EXCEPTING THEREFROM all that portion thereof lying within Section 30, Township 6 South.

058509 JUN 1385

- CONTINUED -

PARCEL NO. 4:

An easement for ingress and egress over an existing road and over the following described property:

The East one-half and the East half of the Southwest quarter of Section 30; the Northeast quarter, and the Nortwest fractional quarter of Section 31, all in Township 6 South, Range 8 East, Mount Diablo Base and Meridian.

EXCEPTING THEREFROM the following;

COMMENCING at the Northwest corner of the Northeast quarter of said Section 30, and running thence East 11.63 chains; thence South $15\frac{1}{2}^{\circ}$ West 13 chains; thence South $64\frac{1}{2}^{\circ}$ West 8.98 chains; thence North 16.40 chains to the point of commencement.

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The location of the road is as follows: Said roadway begins at the section corner commons to sections 19, 20, 29, and 30, Township 6 South, Range 8 East, Mount Diablo Base and Meridian, which is also the intersection of the roads commonly known as Fink Road and Davis Road; thence south, along the sectional lines of Sections 29 and 30 to the northeast corner of the southeast quarter of the southeast quarter; then west along the northern boundary of the southeast quarter of the southeast quarter to a point, said point being the eastern boundary of the property owned by Beltran Farms, truster of this deed of trust, thence continuing west along the northern boundary of the southeast quarter and southwest quarter of the southeast quarter of section 30 to a point: said point being located 10 feet east of the mid-section line of section 30: thence said roadway, being 20 feet wide, with the following description being the center of said roadway, continuing south parallel and 10' east of the mid-section line for section 30 to the sectional line of sections 30 and 31: then continuing south to a point for a distance of 10 feet; thence continuing west 3373 feet, parallel and 10 feet south of the sectional line dividing sections 30 and 31 to a point, said point to be the eastern sectional line of section 36, Township 6 South, Range 7 East and the termination point of this legal description.

END OF DOCUMENT

DOC - 97-0036101-00 Acct 516-Stewart Title Of Modesto

Moreday, MAY 12, 1997 08:00:00

\$5.00 NOD

\$16.00

\$3.00!

\$1.00 Mbr-0000051810

RECORDING REQUESTED BY: STEWART TYPLE OF CALLFORNIA, INC.

WHEN RECORDED MAIL TO:

BELTRAN FARMS 701 FIRE ROAD GROWS LANDING, CA 95313

EXCROW NO. D1-125427-JM

SPACE ABOVE THIS LINE FOR RECORDER'S USE

\$6.00 MGC

RCK/R3/0

QUITCLAIM DEED	
~	A Portion of 25-1712-740 25-1713-730 25-1714-730 25-1716-817 27-1750-817

STY Tti Pd

hereby do/does REMISE, RELEASE AND FOREVER QUITCLAIM to BELTRAN FARMS, a California corporation and FRED BELTRAN, JR. AND SORS, a California General Partnership the following described real property in the unincorporated area , State of California Stanislaus SEZ ATTACHED EXHIBIT "A"

DATE: April 22, 1997

STATE OF CALIFORNIA

COUNTY OF Konterey

On May 5, 1997 before me Erin Burns,

Notary Public

personally appeared Jill Vogel also known as

Jill Carson Vogel

personally known to me (or proved to me on the bacis of satisfactory evidence) to be the person(s), whose name(s) is subscribed to the within instrument and acknowledged to me that Mishe/thm executed the same in Misher/Mish authorized capacity (1886), and that by this/her/this is signature (1896) on the instrument the person(s) or the entity upon behalf of which the person(4) acted, executed the instrument.

WITNESS my hand and afficial sea



(This area for official notarial seal)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

State ofCalifornia	
County of Stanialaus	
On Nay 8, 1997 before me,	J. Most NAME TITLE OF DEPLOER - EG. "ANNE DOE, NOTARY PUBLIC"

CALIFORNIA ALI.-PURPOSE ACKNOWLEDGMENT

Fred Vogel personally appeared. MANAES OF SIGNERS

J. MOST COMM. #1040709 NOTARY PUBLIC CALIFORNIA

STANISLAUS COUNTY

☐ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacit(ies)y, and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Most

EIGNATURE OF MOTARY

EXHIBIT "A"

LEGAL DESCRIPTION

RSCROW NO.: 01-125427-JM

ALL RIGHTS, TITLE AND INTEREST IN AND TO THAT CERTAIN AGREEMENT FOR WATER RIGHTS DATED DECEMBER 5, 1968 AND RECORDED DECEMBER 5, 1968 IN VOL. 2250, PAGE 471 OF OFFICIAL RECORDS OF STANISLAUS COUNTY, AS INSTRUMENT NO. 38087; AS IT PERTAINS TO THE PROPERTY DESCRIBED IN THE FOLLOWING LEGAL DESCRIPTION ONLY:

PARCEL 1:

ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATE IN AND BEING A PORTION OF SECTION 25, TOWNSHIP 6 SOUTH, RANGE 7 EAST, MOUNT DIABLO MERIDIAN, LYING IN THE COUNTY OF STANISLAUS, STATE OF CALIFORNIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SECTION 25, TOWNSHIP 6 SOUTH, RANGE 7 EAST, MOUNT DIABLO MERIDIAN, THENCE SOUTH 88 DEGREES 55' 12" EAST ALONG THE SOUTH LINE OF SAID SECTION 25, A DISTANCE OF 2637.77 FEET TO THE SOUTHEAST CORNER OF THE SOUTHWEST ONE QUARTER OF SAID SECTION 25; THENCE CONTINUE ALONG THE SOUTH LINE OF SAID SECTION 25, SOUTH 88 DEGREES 56' 26" EAST, A DISTANCE OF 2638.15 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 25; THENCE NORTH 01 DEGREES 38' 19" EAST ALONG THE EAST LINE OF SAID SECTION 25, A DISTANCE OF 262.38 FEET TO A POINT IN AN EXISTING FENCE LINE MARKING THE NORTHEASTERLY BOUNDARY OF TEE LANDS OF BELTRAN FARMS; THENCE IN A NORTHWESTERLY DIRECTION AND ALONG SAID BOUNDARY THE FOLLOWING FIVE (5) COURSES AND DISTANCES:

- 1. NORTH 48 DEGREES 48' 13" WEST 1037.20 FEET
- 2. NORTH 49 DEGREES 01' 34" WEST 2515.17 FEET
- 3. NORTH 60 DEGREES 30' 58" WEST 1312.99 FEET
- 4. NORTH 59 DEGREES 50' 32" WEST 915.04 FEET
- 5. NORTH 60 DEGREES 50' 18" WEST 615.64 FEET

TO THE WEST LINE OF SAID SECTION 25; THENCE SOUTH 01 DEGREES 55' 38" WEST ALONG SAID WEST LINE, A DISTANCE OF 1267.94 FERT TO THE NORTHWEST CORNER OF THE SOUTHWEST ONE QUARTER OF SAID SECTION 25; THENCE CONTINUE ALONG THE WEST LINE OF SAID SECTION 25, SOUTH 01 DEGREES 55' 41" WEST, A DISTANCE OF 2636.34 FEET TO THE SOUTHWEST CORNER OF SAID SECTION 25 AND THE POINT OF BEGINNING OF THIS DESCRIPTION.

PARCEL 2:

ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATE IN AND BEING A PORTION OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN, AND OF SECTION 25, TOWNSHIP 6 SOUTH, RANGE 7 EAST, MOUNT DIABLO MERIDIAN, LYING WITHIN THE COUNTY OF STANISLAUS, STATE OF CALIFORNIA AND BEING MORE PARTICULARLY Continued on next page

ESCROW NO.: 01-125427-JM

DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE SOUTHWEST ONE QUARTER OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 8 MAST, MOUNT DIABLO MERIDIAN; THENCE SOUTH 89 DEGREES 23' 53" EAST ALONG THE NORTH LINE OF SAID SOUTHWEST ONE QUARTER, DISTANCE OF 1014.62 FEET; THENCE SOUTH 01 DEGREES 38' 19" WEST, A DISTANCE OF 201.99 FEET; THENCE WORTH 89 DEGREES 23' 53" WEST, A DISTANCE OF 1014.62 FEET TO THE EAST LINE OF SECTION 25, TOWNSHIP & SOUTH, RANGE 7 EAST, MOUNT DIABLO MERIDIAN; THENCE SOUTH 1 DEGREES 38' 19" WEST, ALONG SAID RAST LINE, A DISTANCE OF 2158.59 FEET TO A POINT ON THE NORTHEASTERLY LINE OF THE LANDS OF BELTRAN FARMS; THENCE NORTH 48 DEGREES 48' 13" WEST ALONG AN EXISTING FENCE LINE AND THE NORTHEASTERLY LINE OF SAID BELTRAN FARMS, A DISTANCE OF 1037.20 FEET; THENCE CONTINUE ALONG SAID LINE, NORTH 49 DEGREES 01' 34" WEST, A DISTANCE OF 2515.17 FEET; THENCE CONTINUE ALONG SAID LINE, NORTH 60 DEGREES 30' 58" WEST, A DISTANCE OF 180.31 FRET TO A POINT ON THE EAST-WEST ONE QUARTER SECTION LINE THROUGH SAID SECTION 25; THENCE SOUTH 88 DEGREES 47' 11" EAST ALONG SAID ONE QUARTER SECTION LINE, A DISTANCE OF 2904.53 FEET TO THE POINT OF BEGINNING OF THIS DESCRIPTION.

EXCEPTING THEREFROM ONE-HALF OF ALL OIL, GAS, MINERALS AND OTHER HYDROCARBON SUBSTANCES, AS RESERVED IN THE DEED EXECUTED BY FRED VOGEL AND JILL VOGEL AND A.C. SHOEMAKE AND RECORDED JUNE 26, 1979 AS INSTRUMENT NO. 85027.

ALL MINERALS, OIL, GAS AND OTHER HYDROCARBON SUBSTANCES LYING ABOVE A LEVEL PLAIN 500 FEET BELOW THE LOWEST POINT ON THE SURFACE OF THE PREVIOUSLY DESCRIBED LAND, TOGETHER WITH THE RIGHT OF ENTRY TO THE SURFACE OF SAID LAND TO DRILL OR MINE ANY PORTION OF SAID LAND, HAS BEEN QUITCLAIMED BY QUITCLAIM DEED RECORDED FEBRUARY 5, 1997 AS INSTRUMENT NO. 97-0009079.

5



RECORDING REQUESTED BY: SPEWART LIPENOF CALIFORNIA, INC.

WHEN RECORDED MAIL TO:

Fred Beltran, Jr. 701 Fink Rd. Crows Landing, Ca 95313

ORDER NO	
ESCROW NO.	01-146165-BG



Stanislaus, County Recorder
Karen Mathews Co Recorder Office
DOC- 2001-0053978-00

Acct 506-Stewart Title Of Modesto Wednesday, MAY 23, 2001 08:00:00 Ttl Pd Nbr-0000721282 JEL/R1/1-7

ESCROW NO. 01-146163-BG	SPACE ABOVE THIS LINE FOR RECORDER'S USE	
QUITCLAIM DEED		
The undersigned grantor(s) declare(s): Documentary transfer tax is \$ () computed on full value of property convey () computed on full value less value of liens Unincorporated area: () City of FOR VALUABLE CONSIDERATION, receipt JOHN E. BELTRAN AND FRED E.	or encumbrances remaining at time of sale, and of which is hereby acknowledged,	
hereby remise, release and forever quitclaim to BELTRAN FARMS A CALIFORNIA CORPORATION; AND FRED BELTRAN JR. & SONS, A CALIFORNIA GENERAL PARTNERSHIP; FRED BELTRAN JR. AND ROSE A. BELTRAN, HIS WIFE; FRED E. BELTRAN, A SINGLE MAN; AND JOHN E BELTRAN, A SINGLE MAN DOING BUSINESS AS FRED BELTRAN, JR. AND SONS the following described real property in the County of Stanislaus, State of California		
a part hereof This Quitclaim Deed is given in an to subject property in	TTACHED "Exhibit A" attached hereto and made in to relinquish all Right, Title and Interest in connection with a memorandum of Lease ok 2644 Page 891 as Instrument No. 046378, aus County. JOHN E. BELTRAN FRED E. BELTRAN	
personally appeared to help to help to help to help to help to he the person(s), whose is scribed to the within instrument and acknowled he/she/they executed the same in his/her capacity(ies), and that by his/her/their signature ment the person(s) or the entity upon behalf son(s) acted, executed the instrument. WITNESS my hand and official seal.	name(s) is are sub- ledged to me that r/their authorized (s) on the instru- S. FIOARK COMM. #1251262 NOTARY PUBLIC-CALIFORNIA AL MEDA COUNTY My Course Expires Jan 23, 2004	
Signature Signature	Name of Notary S ROOK Date 5 2301 Date of Commission 1 - 23 - 04 Firm: T.C. S. Place of Execution A lameda Signature auto Roys	

MAIL TAX STATEMENTS AS DIRECTED ABOVE

EXHIBIT A

All that real property located in the County of Stanislaus, State of California, and described as follows:

PARCEL NO. 1:

ALL THAT PORTION OF THE NORTH HALF OF SECTION 1, TOWNSHIP 4 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SECTION 1, TOWNSHIP AND RANGE AFORESAID; THENCE NORTH 89° 55' EAST 2694.57 FEST ALONG THE NORTH LINE OF SECTION 1 TO A 33" PIPE; THENCE SOUTH 41° 14' WEST 992 FEST TO A 33" PIPE; THENCE NORTH 88° 07' WEST, 465 FEST TO A 33" PIPE; THENCE NORTH 54° 17' WEST, 470 FEST; THENCE SOUTH 64° 59' WEST, 430 FEST; THENCE NORTH 80° 18' WEST, 550 FEST THENCE NORTH 00° 11' WEST 203 FEST; THENCE SOUTH 82° 11' WEST 263.5 FEST; THENCE NORTH 00° 19' WEST 373 FEST ALONG THE WEST LINE OF SAID SECTION 1 TO THE PLACE OF BEGINNING.

PARCEL NO. 2:

THE SOUTH HALF OF THE SOUTHWEST QUARTER AND THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 6 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN; THE NORTHEAST QUARTER AND THE NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 35, TOWNSHIP 6 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN.

EXCEPTING THEREFROM ALL THAT PROPERTY GRANTED TO THE COUNTY OF STANISLAUS IN DEED RECORDED MAY 12, 1997, AS INSTRUMENT NO. 036102 OF OFFICIAL RECORDS.

AND ALL OF SECTION 36, TOWNSHIP 6 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN.

EXCEPTING ALL THAT PORTION OF SAID SECTION 36, TOWNSHIP 6 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 36; THENCE NORTH 00° 03' WEST, 2044.00 FEET ALONG THE EAST LINE OF SECTION 36 TO A 33" PIPE; THENCE SOUTH 38° 24' WEST 98.42 FEET; THENCE SOUTH 15° 14' WEST, 229 FEET; THENCE SOUTH 33° 22' WEST, 210 FEET; THENCE SOUTH 65° 02' WEST, 495 FEET THENCE SOUTH 46° 46' WEST, 255 FEET TO A 33" PIPE; THENCE SOUTH 82° 06' WEST, 160 FEET; THENCE SOUTH 45° 29' WEST, 325 FEET; THENCE SOUTH 55° 12' Continued on next page

370 FEET; THENCE SOUTH 23° 51' WEST, 210 FEET; THENCE SOUTH 34° 34' WEST, 250 FEET; THENCE SOUTH 42° 25' WEST THENCE SOUTH 79° 08' WEST, 576.4 FEET TO A 33" PIPE: THENCE NORTH 89° 55' EAST, 2566 FEET ALONG THE SOUTH LINE OF SAID SECTION 36 TO A CONCRETE MONUMENT AT THE POINT OF BEGINNING.

PARCEL NO. 3:

BEGINNING AT THE SOUTHEAST CORNER OF SECTION 25. TOWNSHIP SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN; THENCE 38" WEST, ALONG THE SOUTHERLY LINE OF SAID NORTH 89° 08' SECTION 25, A DISTANCE OF 1317.54 FEET TO THE SOUTHEAST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF SAID SECTION 25; THENCE NORTH 1° 52' 42" EAST, ALONG THE EASTERLY LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF SAID SECTION 25; A DISTANCE OF 1312.81 FRET TO THE NORTHEAST CORNER OF SAID SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF SECTION 25; THENCE NORTH 89° 00' 54" WEST, ALONG THE NORTHERLY LINE OF SAID SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF SECTION 25, AND THE NORTHERLY LINE OF THE SOUTH ONE-HALF OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 25, A DISTANCE OF 3950.79 FEET TO THE WESTERLY LINE OF SAID SECTION 25; THENCE NORTH 1° 43' 01; EAST ALONG SAID WESTERLY LINE, A DISTANCE OF 2594.50 FEET; THENCE SOUTH 60° 54' 31" EAST, A DISTANCE OF 615.68 FEET; THENCE SOUTH 59° 51' 27" EAST, A DISTANCE OF 915.10 FRET; THENCE SOUTH 60° 38' 49" KAST, A DISTANCE OF 1309.00 FEET; THENCE SOUTH 49° 05' 24" EAST, A DISTANCE OF 3942.53 FEET; THENCE SOUTH 0° 51' 22" WEST, A DISTANCE OF 13.29 FEET TO THE SOUTHERLY LINE OF SECTION 30. TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO BASE AND MERIDIAN; THENCE NORTH 89° 17' 16" WEST, ALONG THE SOUTHERLY LINE OF SAID SECTION 30, A DISTANCE OF 304.06 FEET TO THE SOUTHWEST CORNER OF SAID SECTION 30, SAME ALSO BEING THE SOUTHEAST CORNER OF SAID SECTION 25 AND THE POINT OF BEGINNING OF THIS DESCRIPTION.

EXCEPTING THEREFROM ALL THAT PROPERTY GRANTED TO THE COUNTY STANISLAUS IN DEED RECORDED MAY 12, 1997, AS INSTRUMENT NO. (...) S 036102 OF OFFICIAL RECORDS.

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PARCEL NO. 4:

8); ALL OF SOUTH ONE-HALF OF SECTION 31, TOWNSHIP 6 SOUTH, RANGE Continued on next page 2

EAST, MOUNT DIABLO BASE AND MERIDIAN, LYING WEST OF THE WEST LINE OF INTERSTATE HIGHWAY 5. ACCORDING TO THE UNRECORDED ENTITLED, "STATE OF CALIFORNIA, DIVISION OF WATER RESOURCES. CALIFORNIA AQUEDUCT PROJECT, ORIGINAL APPRAISAL, NORTH SAN JOAQUIN DIVISION, DRAWING H-9A-33-34" AND STATE HIGHWAY MAP. ROUTE 5, SHEETS 11 AND 12, FILED AS PUBLIC AGENCY SURVEY 31 STANISLAUS COUNTY SURVEYORS' OFFICE, SAID WEST LINE OF INTERSTATE HIGHWAY 5 IS PARTICULARLY DESCRIBED AS COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 31; THENCE NORTH 89° 07' WEST, 229.15 FEET ALONG THE SOUTH LINE OF SECTION 31 TO ITS INTERSECTION WITH THE SAID WEST LINE OF INTERSTATE HIGHWAY 5 AND THE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE NORTH 14° 03' 37" WEST, 783.10 FEET ALONG SAID WEST HIGHWAY LINE AND CONTINUING NORTH 19° 12' 02" WEST, 401.53 FEET; NORTH 10° 24' 54" WEST, 651.42 FEET; NORTH 19° 29' 23" WEST 502.11 FRET; NORTH 12° 30' 00" WEST, 389.26 FEET TO ITS INTERSECTION WITH THE EAST - WEST QUARTER SECTION LINE THROUGH SECTION 31 TO A POINT WHICH IS NORTH 89° 04' 54" WEST 953.62 FEET FROM THE EAST QUARTER CORNER OF SECTION 31.

EXCEPTING THEREFROM ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATE IN AND BEING A PORTION OF SECTION 31, TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 31, TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN; THENCE NORTH 0° 59' 41" EAST ALONG THE WEST LINE OF SAID SECTION 31, A DISTANCE OF 1,838.39 FEET TO THE TRUE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE CONTINUE NORTH 0° 59' 41" EAST ALONG SAID WEST LINE, A DISTANCE OF 787.65 FEET TO THE WEST ONE-QUARTER CORNER OF SAID SECTION 31; THENCE SOUTH 89° 04' 56" EAST ALONG THE EAST - WEST ONE-QUARTER SECTION LINE THROUGH SAID SECTION 31, A DISTANCE OF 952.27 FEET; THENCE SOUTH 51° 21' 14" WEST, A DISTANCE OF 1,236.62 FEET TO THE WEST LINE OF SAID SECTION AND THE POINT OF BEGINNING.

PARCEL NO. 5:

ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATE IN AND BEING A PORTION OF SECTION 30, TOWNSHIP 6 SOUGH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN, LYING IN THE COUNTY OF STANISLAUS, STATE OF CALIFORNIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:



Continued on next page

ALL OF GOVERNMENT LOT NO. 2 IN THE SOUTHWEST QUARTER OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN AS PER THE GOVERNMENT LAND OFFICE TOWNSHIP PLAT OF TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN, ALSO BEING THE FRACTIONAL WEST ONE HALF OF THE SOUTHWEST ONE QUARTER OF SAID SECTION 30.

EXCEPTING THEREFROM THE NORTHERLY 201.99 FRET OF THE WESTERLY 1014.623 OF SAID LOT NO. 2.

TOGETHER WITH THE SOUTHERLY 26 ACRES, MORE OR LESS, OF PARCEL NO. 3 ACCORDING TO THE OFFICIAL MAP THEREOF RECORDED IN BOOK 40 OF PARCEL MAPS AT PAGE 57, STANISLAUS COUNTY RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID PARCEL NO. 3; THENCE NORTH 0 DEGREES 53' 41" EAST ALONG THE EASTERLY LINE OF SAID PARCEL NO. 3, A DISTANCE OF 860.54 FEET; THENCE NORTH 89 DEGREES 12' 27" WEST, A DISTANCE OF 1315.30 FEET TO THE WESTERLY LINE OF SAID PARCEL 3; THENCE SOUTH 0 DEGREES 57' 57" WEST, A DISTANCE OF 862.39 FEET TO THE SOUTH LINE OF SAID PARCEL 3; THENCE SOUTH 89 DEGREES 17' 16" EAST, A DISTANCE OF 1316.38 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM ONE-HALF OF ALL OIL, GAS, MINERALS AND OTHER HYDROCARBON SUBSTANCES, AS RESERVED IN THE DEED EXECUTED BY FRED VOGEL AND JILL VOGEL AND A.C. SHOEMAKE, AND RECORDED JUNE 26, 1979, AS INSTRUMENT NO. 85027.

PARCEL NO. 6:

ALL THAT CERTAIN REAL PROPERTY SITUATE IN THE COUNTY OF STANISLAUS, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

THE EAST ONE-HALF OF SECTION 30 AND THE NORTHEAST QUARTER OF SECTION 31 IN TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO BASE AND MERIDIAN.

EXCEPTING THEREFROM THE FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF SAID SECTION 30, AND RUNNING THENCE EAST 11.63 CHAINS; THENCE SOUTH 15-1/2° WEST 13 CHAINS; THENCE SOUTH 64-1/2° WEST 8.98 CHAINS; THENCE NORTH 16.40 CHAINS TO THE POINT OF COMMENCEMENT.

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ALSO EXCEPTING THEREFROM ALL THAT PORTION LYING EASTERLY OF THE WESTERLY LINE OF PARCEL A AS DESCRIBED IN THE DEED FROM RUTH E. DIHEL, ALSO KNOWN AS RUTH DIHEL, A WIDOW, TO THE STATE OF CALIFORNIA, RECORDED OCTOBER 14, 1964, IN BOOK 1984, PAGE 1, OF OFFICIAL RECORDS, AS INSTRUMENT NO. 41035.

ALSO EXCEPTING THEREFROM ALL THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED OCTOBER 22, 1964, IN BOOK 1986, PAGE 191, OF OFFICIAL RECORDS, AS INSTRUMENT NO. 42174.

ALSO EXCEPTING THEREFROM PARCELS 1, 2 AND 3 AS PER PARCEL MAP FILED FEBRUARY 25, 1988, IN VOLUME 40 OF PARCEL MAPS, AT PAGE 57, STANISLAUS COUNTY RECORDS.

PARCEL NO. 7:

THE NORTHWEST FRACTIONAL QUARTER OF SECTION 31, TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO BASE AND MERIDIAN.

PARCEL NO. 8:

ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATE IN AND BEING A PORTION OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN, LYING IN THE COUNTY OF STANISLAUS, STATE OF CALIFORNIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

ALL OF PARCEL NO. 3 ACCORDING TO THE OFFICIAL MAP THEREOF RECORDED IN BOOK 40 OF PARCEL MAPS AT PAGE 57, STANISLAUS COUNTY RECORDS:

EXCEPTING THEREFROM THE SOUTHERLY 26 ACRES MORE OR LESS BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID PARCEL NO. 3; THENCE NORTH 0 DEGREES 53' 41" EAST ALONG THE EASTERLY LINE OF SAID PARCEL 3, A DISTANCE OF 860.54 FEET; THENCE NORTH 89 DEGREES 12' 27" WEST, A DISTANCE OF 1315.30 FEET TO THE WESTERLY LINE OF SAID PARCEL 3; THENCE SOUTH 0 DEGREES 57' 57" WEST, A DISTANCE OF 862.39 FEET TO THE SOUTH LINE OF SAID PARCEL 3; THENCE SOUTH 89 DEGREES 17' 16" EAST, A DISTANCE OF 1316.38 FEET TO THE POINT OF BEGINNING.



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PARCEL NO. 9:

ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATE IN AND BEING A PORTION OF SECTION 31, TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 31, TOWNSHIP 6 SOUTH, RANGE 8 EAST, MOUNT DIABLO MERIDIAN, THENCE NORTH 0° 59' 41" EAST ALONG THE WEST LINE OF SAID SECTION 31, A DISTANCE OF 1,838.39 FEET TO THE TRUE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE CONTINUE NORTH 0° 59' 41" EAST ALONG SAID WEST LINE, A DISTANCE OF 787.65 FEET TO THE WEST ONE-QUARTER CORNER OF SAID SECTION 31; THENCE SOUTH 89° 04' 56" EAST ALONG THE EAST - WEST ONE-QUARTER SECTION LINE THROUGH SAID SECTION 31, A DISTANCE OF 952.27 FEET; THENCE SOUTH 51° 21' 14" WEST, A DISTANCE OF 1,236.62 TO THE WEST LINE OF SAID SECTION AND THE POINT OF BEGINNING.

PARCEL NO. 10:

PARCELS 1 AND 2 AS PER PARCEL MAP FILED FEBRUARY 25, 1988, IN VOLUME 40 OF PARCEL MAPS, AT PAGE 57, STANISLAUS COUNTY RECORDS.



Frunt Deed, No access (REV. 01/11)
RECORDING REQUESTED BY AND RETURN TO:

PACIFIC GAS AND ELECTRIC COMPANY 245 Market Street, N10A, Room 1015 P.O. Box 770000 San Francisco, California 94177

Location: City/Uninc

Recording Fee \$_

Document Transfer Tax \$ 14.177.95

[] This is a conveyance where the consideration and Value is less than \$100.00 (R&T 11911).

Computed on Full Value of Property Conveyed, or

[] Computed on Full Value Less Liens

& Encumbrances Remaining at Time of Sale

Signature of declarant or agent determining tax

LD 2206-08-0377

Stanislaus, County Recorder Lee Lundrigan Co Recorder Office

DOC- 2016-0037537-00

Acct 402-Counter Customers
Monday, MAY 23, 2016 10:30:45

Tt1 Pd\$14,177.95

Rcpt # 0003815501

OLD/R2/1-6

(SPACE ABOVE FOR RECORDER'S USE ONLY)

DEED

3033-0005 (03-14-072) 10 15 2 Frontier Solar - Crow Creek Switching Station

GRANT DEED

BELTRAN FARMS, a California corporation, hereinafter called Grantor, hereby grants to PACIFIC GAS AND ELECTRIC COMPANY, a California corporation, hereinafter called Grantee, the real property, situate in the County of Stanislaus, State of California, and described as follows:

(APN 027-017-077)

The parcel of land described on Sheet 2 of 2 in the "Switching Station" Exhibit and shown upon Sheet 1 of 2 of said Exhibit, both of which are attached hereto and made a part hereof.

Excepting from said real property all oil, gas, and other minerals within or underlying said real property, provided, however, that any exploration for or removal of any such oil, gas, and other minerals shall be by means of slant drilling or tunneling from lands adjacent to said real property or other methods not requiring operations on the surface of said real property and shall be performed so as not to endanger said surface or any structure which shall be erected or constructed thereon.

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MAIL TAX STATEMENTS TO:

Pacific Gas and Electric Company Tax Department P.O. Box 7054, MCB12G San Francisco, CA 94120

SUP

The provisions hereof shall inure to the benefit of and bind the successors and assigns of the respective parties hereto.

Dated _	May 23	, 20_16.
		BELTRAN FARMS, a California corporation
		By Fred E. Beetres
		Name Fred E. Beltran
		Title President
	*	By Jean E Better
		Name JOHN E. BELTRAN

Title

TREASURE

The Area and Division: Area 4, Fresno Division

Land Service Office: Fresno

Operating Department: Electric Transmission

USGS location: MDB&M, T. 6S, R. 8E, Sec 31 NW 1/4

FERC License Number(s): N/A
PG&E Drawing Number(s): N/A

PLAT NO.: N/A

LD of any affected documents: N/A

LD of any Cross-referenced documents: N/A

TYPE OF INTEREST: 01 SBE Parcel Number: N/A

(For Quitclaims, % being quitclaimed): N/A

Order # or PM #: 31164898 // 0170

JCN: 03-14-072 County: Stanislaus

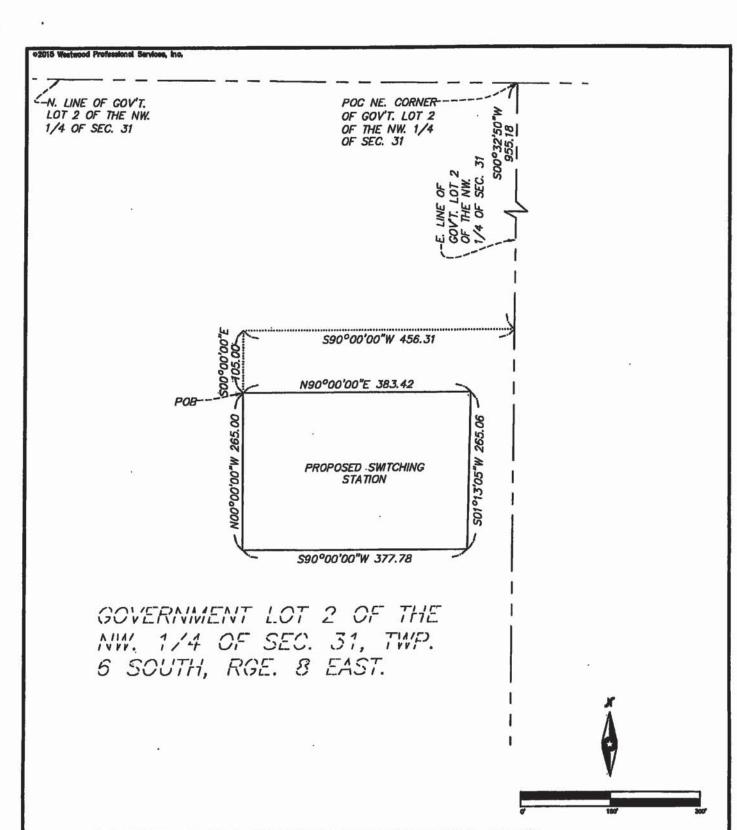
Utility Notice Numbers: N/A

851 Approval Application No. Decision

Prepared By: ERAD Checked By: MATE Revision Number: 1

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. State of California County of Stanislaus) On May 13, 2016, before me, Carol Jones
Here insert name and title of the officer ed E. Beltran and personally appeared _____ who proved to me on the basis of satisfactory evidence to be the person(s), whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(les), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. (Seal) **CAROL JONES** CAPACITY CLAIMED BY SIGNER Commission # 2098913 Votary Public - California [] Individual(s) signing for oneself/themselves Stanislaus County Comm. Expires Mar 4, 2019 Corporate Officer(s) of the above named corporation(s) [] Trustee(s) of the above named Trust(s) [] Partner(s) of the above named Partnership(s) [] Attorney(s)-in-Fact of the above named Principal(s)

[] Other _____



THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY

Frontier Solar

Sketch and Description

Bohlbit

Date

0005241ESF04.dwg

1 of 2 10/20/15

Westwood

Phone (952) 937-5150 Fax (952) 937-5622 Toll Free (988) 937-5150

7699 Anagram Drive Edon Preirie, MN 66344 Westwoodes.com

Westwood Professional Services, Inc.

Clarkett

Stanislaus County, California

SWITCHING STATION DESCRIPTION:

THAT PORTION OF GOVERNMENT LOT 2 OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 6 SOUTH, RANGE 8 EAST. MOUNT DIABLO BASE AND MERIDIAN, IN THE COUNTY OF STANISLAUS, STATE OF CALIFORNIA, ACCORDING TO UNITED STATES GOVERNMENT SURVEY THEREOF, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID GOVERNMENT LOT 2; THENCE SOUTH 00 DEGREES 32 MINUTES 50 SECONDS WEST, ASSUMED BEARING, ALONG THE EAST LINE OF SAID GOVERNMENT LOT 2, A DISTANCE OF 955.18 FEET; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, A DISTANCE OF 456.31 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, A DISTANCE OF 105.00 FEET TO THE POINT OF BEGINNING; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS EAST, A DISTANCE OF 383.42 FEET; THENCE SOUTH 01 DEGREES 13 MINUTES 05 SECONDS WEST, A DISTANCE OF 265.06 FEET; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, A DISTANCE OF 377.78 FEET; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS WEST, A DISTANCE OF 265.00 FEET TO THE POINT OF BEGINNING.

SWITCHING STATION PROPERTY - AREA - 2.32± ACRES

Chris Hoglund, PS License No. 8534

License expiration date 12/31/16

* Exp: 12/31/16 *

Frontier Solar

Stanialaus County, California

Sketch and Description

Bohfbit

Sheet

Date

0005241ESF04.dwg

2 OF 2

10/20/15

Westwood

Phone Fax (952) 937-5150 (952) 937-5822 (888) 937-5150

7699 Anugram Drivo Eden Prairio, MN 65344 Wathwoodps.com

Wartwood Professional Services, Inc.

Charles

11/9/15

Recording Requested By And For The Benefit Of And, When Recorded, Mail To:



County of Stanislaus
Department of Planning and
Community Development
1010 Tenth Street, Suite 3400
Modesto, CA 95354



Stanislaus, County Recorder
Lee Lundrigan Co Recorder Office
DOC- 2018-0020070-00
Thursday, MAR 22, 2018 14:23:27

Thursday, MAR 22, 2018 14:23:27
Tti Pd \$0.00 Rcpt # 0004103159
AKN/R1/1-12

Space Above Reserved for Recorder's Use

NOTICE OF ADMINISTRATIVE CONDITIONS AND RESTRICTIONS

PLEASE TAKE NOTICE that the COUNTY OF STANISLAUS approved the land use development described below subject to administrative conditions and restrictions, copies of which are attached to this notice and incorporated herein by reference. The conditions and restrictions affect development of the property or parcels described below and are binding upon the named landowners and their successors in interest.

Property Owner(s): Beltran Farms

Project Site Address: 22601 Davis Road, west of I-5, southwest of the Fink Road

Landfill, in the Newman/Crows Landing area.

Assessor's Parcel Number(s): 025-017-019; 026-012-003; and 027-017-063, 077, 080, 082

General Plan Designation: Agriculture

Zoning District: A-2-40 & 160

Community Plan Designation: Not Applicable

<u>Project Name/Description</u>: TIME EXTENSION APPLICATION NO. 2018-0009 FOR USE PERMIT 2011-11 – BELTRAN RANCH SOLAR FACILITY (SCH No. 2011112013) - This is a request for a time extension and modification of the Conditions of Approval No. 1 to extend the project's development schedule by five years, or until April 18, 2023, to allow for the construction of a 140 megawatts (MW) solar photovoltaic (PV) energy facility on 606± acres of a 1,720± acre site in the A-2-40 and A-2-160 (General Agriculture) zoning district.

The undersigned duly authorized officer of Stanislaus County declares that the foregoing is true and correct under penalty of perjury under the laws of the State of California.

Jebruary 21,2018

Rachel Wyse, Senior Planner Stanislaus County, Planning and Community Development Department

ATTACHMENTS:

- Conditions of Approval
- 2. Project Area Map (For Illustrative Purposes Only)

As Approved by the Planning Commission April 18, 2013 As Amended by the Planning Commission February 15, 2018

NOTE: Approval of this application is valid only if the following conditions are met. This permit shall expire unless activated within 18 months of the date of approval. In order to activate the permit, it must be signed by the applicant and one of the following actions must occur: (a) a valid building permit must be obtained to construct the necessary structures and appurtenances; or, (b) the property must be used for the purpose for which the permit is granted. (Stanislaus County Ordinance 21.104.030)

CONDITIONS OF APPROVAL

USE PERMIT APPLICATION NO. 2011-11 BELTRAN RANCH SOLAR FACILITY (STATE CLEARINGHOUSE NO. 2011112013)

Department of Planning and Community Development

- Use(s) shall be conducted as described in the application and supporting information (including the plot plan) as approved by the Planning Commission and/or Board of Supervisors and in accordance with other laws and ordinances. Construction of the initial phase of this project shall be allowed to begin within five (5) years of project approval no later than April 18, 2023, provided it can be demonstrated that efforts to secure a Power Purchase Agreement and necessary building permits have been on-going.
- 2. Pursuant to Section 711.4 of the California Fish and Game Code (effective January 1, 2013), the applicant is required to pay a California Department of Fish and Wildlife (formerly the Department of Fish and Game) fee at the time of filing a "Notice of Determination." Within five (5) days of approval of this project by the Planning Commission or Board of Supervisors, the applicant shall submit to the Department of Planning and Community Development a check for \$2,213.25, made payable to Stanislaus County, for the payment of California Department of Fish and Wildlife and Clerk Recorder filing fees.
 - Pursuant to Section 711.4 (e)(3) of the California Fish and Game Code, no project shall be operative, vested, or final, nor shall local government permits for the project be valid, until the filing fees required pursuant to this section are paid.
- Developer shall pay all Public Facilities Impact Fees and Fire Facilities Fees as adopted by Resolution of the Board of Supervisors. The fees shall be payable at the time of issuance of a building permit for any construction in the development project and shall be based on the rates in effect at the time of building permit issuance.
- 4. The applicant/owner is required to defend, indemnify, or hold harmless the County, its officers, and employees from any claim, action, or proceedings against the County to set aside the approval of the project which is brought within the applicable statute of limitations. The County shall promptly notify the applicant of any claim, action, or proceeding to set aside the approval and shall cooperate fully in the defense.
- 5. All exterior lighting shall be designed (aimed down and toward the site) to provide adequate illumination without a glare effect. This shall include, but not be limited to, the use of shielded light fixtures to prevent skyglow (light spilling into the night sky) and the installation of shielded fixtures to prevent light trespass (glare and spill light that shines onto neighboring properties).

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- 6. Pursuant to Section 404 of the Clean Water Act, prior to construction, the developer shall be responsible for contacting the US Army Corps of Engineers to determine if any "wetlands," "waters of the United States," or other areas under the jurisdiction of the Corps of Engineers are present on the project site, and shall be responsible for obtaining all appropriate permits or authorizations from the Corps, including all necessary water quality certifications, if necessary.
- Any construction resulting from this project shall comply with standardized dust controls adopted by the San Joaquin Valley Air Pollution Control District (SJVAPCD).
- 8. A sign plan for all proposed on-site signs indicating the location, height, area of the sign(s), and message must be approved by the Planning Director or appointed designee(s) prior to installation.
- Pursuant to Sections 1600 and 1603 of the California Fish and Game Code, prior to construction, the developer shall be responsible for contacting the California Department of Fish and Wildlife (formerly the Department of Fish and Game) and shall be responsible for obtaining all appropriate stream-bed alteration agreements, permits, or authorizations, if necessary.
- 10. The Department of Planning and Community Development shall record a Notice of Administrative Conditions and Restrictions with the County Recorder's Office within 30 days of project approval. The Notice includes: Conditions of Approval/Development Standards and Schedule; any adopted Mitigation Measures; and a project area map.
- 11. Pursuant to State Water Resources Control Board Order 99-08-DWQ and National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000002, prior to construction, the developer shall be responsible for contacting the California Regional Water Quality Control Board to determine if a "Notice of Intent" is necessary, and shall prepare all appropriate documentation, including a Storm Water Pollution Prevention Plan (SWPPP). Once complete, and prior to construction, a copy of the SWPPP shall be submitted to the Stanislaus County Department of Public Works.
- Assessor Parcel No. 027-017-082 is currently enrolled in a Williamson Act Contract which, due to the filing of a Non-Renewal, will expire December 31, 2013. No development associated with this project shall take place on this parcel until January 1, 2014.
- 13. At the end of project life, all solar equipment, appurtenant structures, and concrete footings shall be removed from the property and recycled, if applicable. Solar sites shall be revegetated and reclaimed to agriculture. Soil remediation shall be incorporated if necessary.
- 14. Davis Road and all appurtenant structures, specifically the bridges over the California Aqueduct and Interstate 5, are not owned or maintained by the County. The applicant shall be responsible for maintaining and repairing the road and all appurtenant structures, including the bridges. Prior to issuance of any building or grading permit, the applicant shall provide adequate assurances from the Department of Water Resources (DWR) to the Planning Department that the applicant's right to use the DWR bridge remains intact for this project.
- 15. The access for the project takes place over several parcels to reach the project site. The applicant shall show that the listed easements are contiguous to the project site. The applicant shall obtain recorded irrevocable access easements over private Davis Road and

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through the project site from the property owners who hold legal right to the parcels on which the private road and easements are or will be developed. The recorded document(s) shall be submitted to the Planning Department prior to issuance of a grading and/or building permit associated with this project.

- 16. The applicant is responsible for obtaining rights and a secondary irrevocable emergency and access ingress/egress agreement to the project site. This access agreement shall be approved by the Fire Authority and recorded on the property. A copy of the recorded document shall be submitted to the Planning Department prior to issuance of a grading and/or building permit associated with this project.
- 17. The project applicant/developer/operator shall obtain a street address within the unincorporated portion of Stanislaus County for acquisition, purchasing, and billing purposes; register this address with the State Board of Equalization (BOE) to file Use Tax Returns; and use this address for acquisition, purchasing, and billing purposes associated with the proposed project. A copy of the BOE registration, including the account number and subsequent Use Tax Returns, shall be provided to the Planning Department within 10 days of a written request.

Department of Public Works

- 18. Prior to any work being done in the Stanislaus County road right-of-way, the applicant will obtain an encroachment permit.
- Public Works shall approve the location and width of any new driveway approaches on any County maintained roadway.
- 20. A grading and drainage plan for the project site shall be submitted before any building permit for the site is issued. Public Works will review and approve the drainage calculations. The grading and drainage plan shall include the following information:
 - Drainage calculations shall be prepared as per the Stanislaus County Standards and Specifications that are current at the time the permit is issued;
 - The plan shall contain enough information to verify that all runoff will be kept from going onto adjacent properties and Stanislaus County road right-of-way;
 - C. The grading and drainage plan shall comply with the current Stanislaus County National Pollutant Discharge Elimination System (NPDES) General Permit and the Quality Control standards for New Development and Redevelopment contained therein;
 - D. An Engineer's Estimate shall be submitted for the grading and drainage work; and
 - E. The grading, drainage, and associated work shall be accepted by Stanislaus County Public Works prior to a final inspection or occupancy, as required by the building permit.

The applicant of the building permit shall pay the current Stanislaus County Public Works weighted labor rate for the plan review of the building and/or grading plan.

21. The applicant of the building permit shall pay the current Stanislaus County Public Works weighted labor rate for all on-site inspections. A preliminary Engineer's Estimate for the

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grading and drainage work shall be submitted to determine the amount of deposit for the inspection of the grading. The deposit shall be made prior to the issuance of the building permit. The Public Works inspector shall be contacted 48 hours prior to the commencement of any grading or drainage work on-site. The Public Works inspector will not sign on the grading or building permit until such time that all inspection fees have been paid. Any fees left over from the deposit shall be returned to the applicant at the completion and acceptance of the grading and drainage construction by Stanislaus County Public Works.

Department of Environmental Resources (DER)

- On-site wastewater disposal system (OSWDS) shall be by individual Primary and Secondary wastewater treatment units operated under conditions and guidelines established by Measure X.
- 23. On-site wastewater disposal system (OSWDS) shall be designed according to type and maximum occupancy of the proposed structure to estimated waste/sewage design flow rate and in accordance to number of plumbing fixture units proposed within the building. The dispersal field shall be designed and sized using field data collected from soil profile and percolation tests performed at the locations proposed for dispersal field(s) and the 100% future reserved expansion area.
- 24. The applicant shall determine, to the satisfaction of the Department of Environmental Resources (DER), that a site containing (or formerly containing) residences, farm buildings, or structures has been fully investigated (via Phase I study and Phase II study if necessary) prior to the issuance of a grading permit. DER recommends research be conducted to determine if pesticides were used on the proposed development site; if confirmed, suspect site areas should be tested for organic pesticides and metals. Any discovery of underground storage tanks, former underground storage tank locations, buried chemicals, buried refuse, or contaminated soil shall be brought to the immediate attention of DER.

Building Permits Division

 Building permits are required and the project must conform with the California Code of Regulations, Title 24.

San Joaquin Valley Air Pollution Control District (SJVAPCD)

- 26. The proposed project is subject to District Rule 9510 (Indirect Source Review). The applicant shall submit an Air Impact Assessment (AIA) application to the SJVAPCD and pay any applicable off-site mitigation fees before issuance of the first building permit.
- 27. The proposed project may be subject to District Rules and Regulations, including but not limited to:
 - Regulation VIII (Fugitive PM10 Prohibitions)
 - Rule 4102 (Nuisance)
 - Rule 4601 (Architectural Coatings)
 - Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations)
 - Rule 4002 (National Emission Standards for Hazardous Air Pollutants)

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Department of Water Resources (DWR)

- 28. The Beltran Ranch Solar Facility Project, et al shall not exceed H20 loading on DWR's Davis Road Bridge.
- 29. The proposed weight limits from the applicant indicate loads will approach the capacity of DWR's bridge. Therefore the Beltran Ranch Solar Facility Project, et al and DWR shall jointly inspect and perform a condition assessment for pre and post construction of the Davis Road Bridge and approach roads. The Beltran Ranch Solar Facility Project, et al shall acknowledge their responsibilities for any damage which may occur due to their use of the bridge and roadway and repair any damage identified at the end of construction or sooner if warranted by DWR. Loads shall not exceed legal limits for vehicles used based on California vehicle code weight limitations.
- 30. The Beltran Ranch Solar Facility Project, et al shall provide a seven (7) day advance notification prior to starting work within DWR's right of way. Please contact DWR's Division of Engineering EP Section. The San Luis Field Division shall be simultaneously notified. In addition, the Beltran Ranch Solar Facility Project, et al shall contact the Division of O&M for the pre and post assessment prior to construction.
- 31. DWR's ongoing operations and maintenance activities shall not be disrupted during construction. The primary or secondary operating road along open canals must be kept available for DWR use at all times. Access to Davis Road Bridge shall remain open for the duration of construction and traffic controls shall be placed to warn all cross traffic on DWR's primary and secondary roads.
- 32. Any additional development that affects DWR right of way requires an Encroachment Permit/Review from DWR prior to the start of construction.

MITIGATION MEASURES

(Pursuant to California Public Resources Code 15074.1: Prior to deleting and substituting for a mitigation measure, the lead agency shall do both of the following:

- 1) Hold a public hearing to consider the project; and
- 2) Adopt a written finding that the new measure is equivalent or more effective in mitigating or avoiding potential significant effects and that it in itself will not cause any potentially significant effect on the environment.)
- 33. AQ-1: Implement all feasible fugitive dust control requirements of the San Joaquin Valley Air Pollution Control District (SJVAPCD), Regulation VIII. The following measures shall be implemented to reduce PM 10 exhaust emissions and further reduce the already less-than-significant impacts associated with ROG and NO x emissions:
 - Provide commercial electric power to the project site in adequate capacity to avoid or minimize the use of portable electric generators and any other equipment.
 - Where feasible, substitute electric-powered equipment for diesel engine driven equipment, or implement the use of diesel particulate traps.
 - When not in use, avoid idling of on-site equipment.
 - Where feasible, avoid operation of multiple pieces of heavy duty equipment.

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- Require contractors to use the best available emission reduction and economically feasible technology on an established percentage of the equipment fleet. It is anticipated that in the near future PM 10 control equipment will be available. The SJVAPCD shall be consulted with on this process. This requirement shall be included in construction bid specifications.
- 34. AQ-2: Comply with SJVAPCD's Regulation VIII-Fugitive Dust Prohibitions and implement the following applicable control measures, as required by law:
 - An owner/operator shall submit a Dust Control Plan to the Air Pollution Control Officer (APCO) prior to the start of any construction activity on any site that will include 5 acres or more of disturbed surface area for non-residential development, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials. Construction activities shall not commence until the APCO has approved or conditionally approved the Dust Control Plan. An owner/operator shall provide written notification to the APCO within 10 days prior to the commencement of earthmoving activities via fax or mail. The requirement to submit a dust control plan shall apply to all construction related activities conducted at the project site.
 - The owner/operator shall submit a construction notification form to the APCO at least 48 hours prior to the start of any construction activity on the project site that includes greater than one acre of disturbed surface area.
- AQ-3: Implement SJVAPCD-recommended enhanced and additional control measures to further reduce fugitive PMIO dust emissions from public roadways.
 - Install sandbags or other erosion control measures to prevent silt runoff to public roadways from adjacent project areas with a slope greater than 1% in accordance the project's Storm water Pollution Prevention Plan (SWPPP), which conforms with the required elements of the General Permit No. CAS000002 issued by the State of California, State Water Resources Control Board.
 - The area encompassing the San Joaquin Valley Air Basin (SJVAB) boundary is also classified as nonattainmentforPM2.S•TheSJVAPCD approach for achieving attainment of the PM2.Sstandard is has two components. The first component is that the existing PMIO reduction strategies will reduce the fugitive component of PM2.5 emissions within the SJVAPCD. The second component is to address the indirect formation of PM2.5' as with ozone Knox is a precursor of PM2.5 to the district reduction strategies for the reduction of NO x throughout the basin will also reduce the formation of PM2.S. In addition since the emissions estimate for PMIO was compared to PM2.5 thresholds; if PM10 emissions estimates are below the PM2.S thresholds then PM2.S must also be below the threshold. The proposed project shall be required to comply with the SJVAPCD's Regulation VIII (SJVAPCD 2009) control measures for construction emissions of PMI0. One of these control measures includes the use of water with all "land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities" for fugitive dust suppression. Compliance with SJVAPCD Regulation VIII will further reduce emissions.
- 36. BIO-1: Preconstruction, pre-activity, and pre-decommissioning surveys shall be conducted no less than 14 days and no more than 30 days prior to the beginning of ground disturbance and/or construction activities or any project activity likely to impact the SJKF. The survey area shall include all areas subject to disturbance, and a 250 buffer area extending beyond

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areas subject to disturbance. In the event that an active San Joaquin kit fox den is detected during preconstruction surveys, DFG and USFWS shall be contacted immediately and no project activity shall begin until appropriate avoidance measure have been implemented, and DFG and USFWS have provided written authorization that project construction may proceed.

- 37. BIO-2: Project- related vehicles shall observe a 20-mph speed limit in all project areas; this is particularly important at night when SJKF are most active. To the extent possible, night-time construction should be minimized. Off-road traffic outside of designated project areas should be prohibited.
- 38. **BIO-3:** To prevent inadvertent entrapment of SJKF or other animals during the construction phase, all excavated, steep-walled holes or trenches more than two (2) feet deep shall be covered at the close of each working day by plywood or similar materials, or provided with one or more escape ramps constructed of earth fill or wooden planks. Each excavation shall be inspected for animals at the beginning of each day. Before such holes or trenches are filled, they should be thoroughly inspected for trapped animals.
- 39. BIO-4: SJKF are attracted to den-like structures such as pipes and may enter stored pipe. All construction pipes, culverts, or similar structures with a diameter of 4 inches or greater that are stored at a construction site for one or more overnight periods shall be thoroughly inspected for SJKF before the pipe is subsequently buried, capped, or otherwise used or moved in any way. IF a SJKF is discovered inside a pipe, all work in the area shall stop until the animal leaves the area on its own.
- 40. BIO-5: All food-related trash items such as wrappers, cans, bottles, and food scraps shall be disposed of in closed containers and removed at least once a week from a construction site.
- 41. BIO-6: No firearms shall be allowed on the project site except for police and security personnel.
- 42. **BIO-7:** To prevent harassment, mortality of SJKF or destruction of dens by dogs or cares, no pets shall be permitted on the project site during construction.
- 43. BIO-8: An employee education program shall be conducted containing a brief presentation on all special-status wildlife species having the potential to occur on or surrounding the Project site. This program shall also include education and a brief presentation by persons knowledgeable in SJKF biology and legislative protection to explain endangered species concerns to contractors and their employees. The program shall include the following: a description of the SJKF and its habitat needs; a report of the occurrence of SJKF in the project area; an explanation of the status of the species and its protection under state and federal Endangered Species Acts; and a list of measures being taken to avoid impacts to the species during construction and implementation. A fact sheet conveying this information shall be prepared for distribution to attendees of the training and anyone else who may enter the project site.
- 44. BIO-9: Design perimeter fencing to be wildlife friendly by raising the bottom of the fence six inches above the ground to allow SJKF to move into and out of the project site.
- 45. BIO-10: If ground disturbance or tree removal occurs during the bird breeding season (Feb 15- September 1), breeding bird surveys for both tree and ground dwelling species shall be conducted within 20 days of proposed ground disturbance to avoid disturbance to active

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nests, eggs, and/or young of these and other bird species. A minimum no-disturbance buffer of 250 feet shall be delineated around active nests of non-listed species and ½ mile from listed species 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 best or parental care for survival.

- 46. BIO-11: For Swainson's hawk, the pre-construction survey shall be extended to within ½ mile of the project area. If an active SWHA nest is found within 0.5 mile of the Project site, the Project proponent shall implement a 0.5 mile no-disturbance buffer around the nest until consultation with DFW occurs and appropriate avoidance measures are approved by DFW in writing and are implemented to prevent take of the species or to determine if issuance of an ITP is warranted.
- 47. **BIO-12:** Pre-construction and pre-decommissioning surveys, relocation, avoidance, and compensatory measures for Burrowing Owl shall utilize the recommendations listed in the DFW *Staff Report on Burrowing Owl Mitigation* (2012).
- 48. BIO-13: An assessment of CTS and CRLF habitat will be completed as part of preconstruction and pre-decommissioning surveys to determine whether any avoidance is necessary. Habitat assessment shall follow the USFWS's Interim Guidance on Site Assessment and Field Surveys for Determining Presence or a Negative Finding of the California Tiger Salamander (2003) and the Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog (2005).
- 49. BIO-14: A 250 foot no-disturbance buffer shall be clearly delineated around the stockponds and Crow Creek to protect water quality and wildlife that may depend on these water features. The no-disturbance buffer shall be maintained during construction, operations, and decommissioning activities.
- 50. BIO-15: The developer shall apply DFW's "Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities" (DFG 2009) to determine presence or infer absence of special-status plants in and near the Project site, to evaluate potential impacts, and to design ways to mitigate Project impacts. If State-listed plants are detected during surveys, consultation with the Department is warranted to discuss the potential for "take" under CESA.
- CR-1: Stop Work if Previously Unknown Archaeological Resources Are Uncovered during Project Construction, Assess the Significance of the Find, and Pursue Appropriate Management.
 - If an inadvertent discovery of cultural materials (e.g., unusual amounts of shell, animal bone, bottle glass, ceramics, structure/building remains) is made during project-related construction activities, ground disturbances in the area of the find shall be halted and a qualified professional archaeologist shall be notified regarding the discovery. The archaeologist shall determine whether the resource is potentially significant as per the California Register of Historic Resources (CRHR) and develop appropriate treatment measures.
- 52. CR-2: Stop Work if Human Remains Are Uncovered during Project Construction, Assess the Significance of the Find, and Pursue Appropriate Management.

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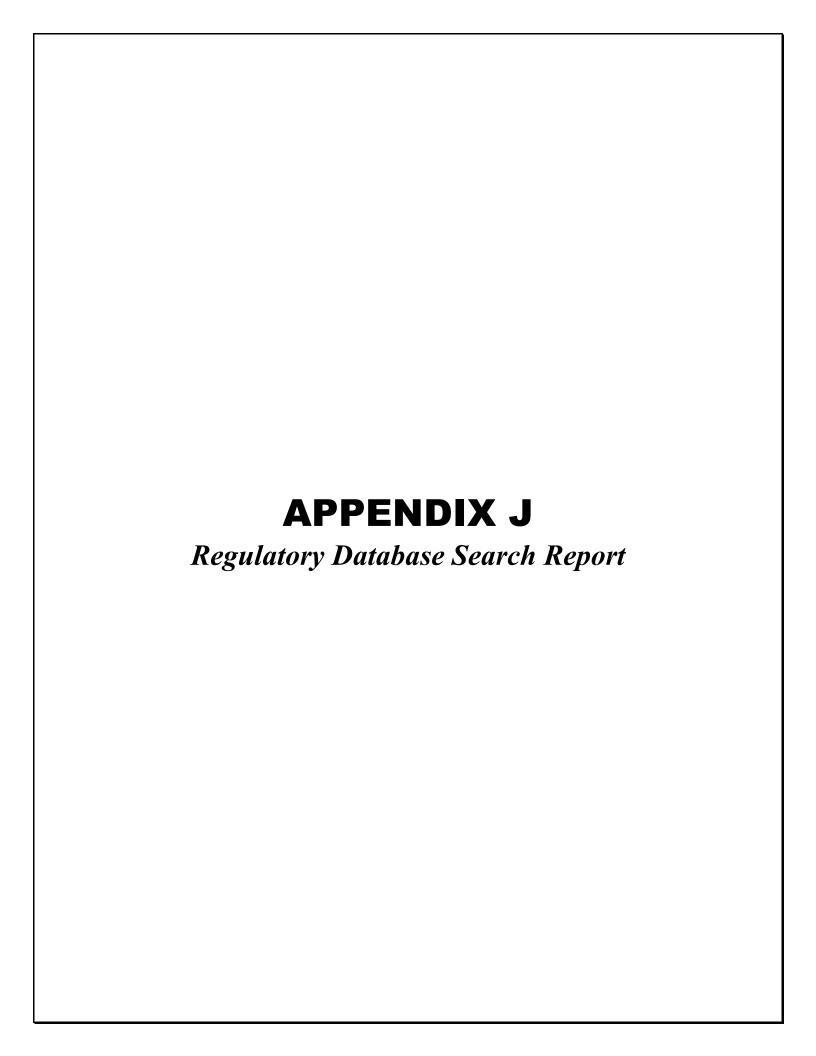
- If human remains are uncovered during ground-disturbing activities, the contractor and/or the project applicant shall immediately halt potentially damaging excavation in the area of the find and notify the County Coroner and a professional archaeologist to determine the nature of the remains. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and Safety Code Section 7050.5[bD. If the coroner determines that the remains are those of a Native American, he or she must contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (Health and Safety Code Section 7050[c]). Following the coroner's findings, the property owner, contractor or project proponent, an archaeologist, and the NAHC-designated Most Likely Descendent (MLD) shall determine the ultimate treatment and disposition of the remains and take appropriate steps to ensure that additional human interments are not disturbed. The responsibilities for acting upon notification of a discovery of Native American human remains are identified in California PRC 5097.9.
- Upon the discovery of Native American remains, the project applicant, in consultation with the County shall ensure that the immediate vicinity (according to generally accepted cultural or archaeological standards and practices) is not damaged or disturbed by further development activity until consultation with the MLD has taken place. The MLD shall have 48 hours to complete a site inspection and make recommendations after being granted access to the site. A range of possible treatments for the remains, including nondestructive removal and analysis, preservation in place, relinquishment of the remains and associated items to the descendents, or other culturally appropriate treatment may be discussed. California PRC 5097.9 suggests that the concerned parties may extend discussions beyond the initial 48 hours to allow for the discovery of additional remains. The following is a list of site protection measures that the project applicant shall employ:
 - record the site with the NAHC or the appropriate Information Center.
 - use an open space or conservation zoning designation or easement.
 - and record a document with Stanislaus County.
- The project applicant or their authorized representative shall rebury the Native American human remains and associated grave goods with appropriate dignity on the property in a location not subject to further subsurface disturbance if the NAHC is unable to identify a MLD or the MLD fails to make a recommendation within 48 hours after being granted access to the site. The landowner or their authorized representative may also re-inter the remains in a location not subject to further disturbance if they reject the recommendation of the MLD, and mediation by the NAHC fails to provide measures acceptable to the County.
- 53. **GEO-1:** Implement a Storm Water Pollution Prevention Plan (SWPPP) and associated Best Management Practices (BMPs) for disturbance of more than one acre.
- 54. **GEO-2:** Prepare and submit for County review and approval, and implement a grading and erosion control plan.
- 55. **HM-1:** Keep hazardous materials in an Identified Staging Area and Prepare and Implement an Accidental Spill Prevention Plan during Construction

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- Before construction begins, the project applicant shall require the construction contractor to identify a staging area where hazardous materials will be stored during construction. The staging area shall not be located in an undisturbed area. The contractor shall also be required to prepare an accidental spill prevention and response plan, which shall be reviewed and approved by the project applicant and the County, that identifies measures to prevent accidental spills from leaving the site and methods for responding to and cleaning up spills before neighboring properties are exposed to hazardous materials.
- 56. **HM-2:** This project is in the State Responsibility Area Modesto Fire Hazard Severity Zone and therefore must have a Vegetation Management Plan and defensible space of 100 feet. (California Public Resources Code.)
- HM-3: No development shall occur without approved fire department (emergency vehicle) access and water supply.
- 58. HM-4: A second point of emergency vehicle access from either the north of the project (Fink Road) or from the south of Davis Road shall be built to California Standards.
- HM-5: Electrical Infrastructure shall be constructed to the latest California PUC Standards and AVIAN Protection Standards.
- 60. WQ-I: A Storm water Pollution Prevention Plan (SWPPP) for the proposed project will be prepared by the project applicant, approved by the Stanislaus County Public Works Department prior to commencing with any ground-disturbing construction related activities, and implemented by the project applicant.
 - Best Management Practices (BMPs) will be included in the SWPPP for runoff, erosion and water quality, and the BNIPs will be put in place and maintained during the duration of ground-disturbing activities during the rainy season or when rain is forecast.
- 61. WQ-2: A grading and drainage plan will be prepared, submitted to the Stanislaus County Public Works Department for approval prior to issuance of any new building permits, and implemented by the project applicant. Drainage calculations will be prepared as per the Stanislaus County Standards and Specifications that are current at the time a permit is issued. The plan will contain enough information to verify that all runoff will be kept from going onto adjacent properties, into Little Salado Creek or its tributaries, and into the Stanislaus County road right-of-way. All grading and drainage work for the site's access roads will keep runoff within the historic (natural) drainage shed for that area. The grading and drainage plan will comply with the current Stanislaus County National Pollutant Discharge Elimination System (NPDES) General Permit and the Quality Control standards for New Development.

Please note: If Conditions of Approval/Development Standards are amended by the Planning Commission or Board of Supervisors, such amendments will be noted in the upper right-hand corner of the Conditions of Approval/Development Standards; new wording is in **bold**, and deleted wording will have a line through it.

FOR ILLUSTRATIVE PURPOSES ONLY



Beltran Ranch 24776 Davis Road Newman, CA 95360

Inquiry Number: 5476062.6s

November 06, 2018

EDR Area / Corridor Report



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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

24776 DAVIS ROAD NEWMAN, CA 95363

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 08/07/2018 has revealed that there is 1 FINDS site within the requested target property.

<u>Site</u>	Address	Map ID / Focus Map(s)	Page
MONITORING STATION	DAVIS RD-BELLTRAN FA	1/7	30
Registry ID:: 110020917089			

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Information System

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the requested target property.

	Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page	
	OMS OF STANISLAUS	4040 FINK RD	N 1/4 - 1/2 (0.321 mi.)	4/3	33	
D . I OMETI E (OMETI) D						

Database: SWF/LF (SWIS), Date of Government Version: 08/08/2018

Facility ID: 50-AA-0009 Operational Status: Active Regulation Status: Permitted

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page	
BELTRAN FARMS	22601 DAVIS RD	ENE 0 - 1/8 (0.080 mi.)	2/7	30	
Status: A					
Tank Status: A					
Comp Number: 31370					

HIST UST: Hazardous Substance Storage Container Database

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the requested target property.

<u>Site</u>	Address	Direction / Distance	Map ID / Focus Map(s)	Page
BELTRAN FARMS	22601 DAVIS RD	ENE 0 - 1/8 (0.080 mi.)	2/7	30
Facility Id: 00000031370				

Other Ascertainable Records

CUPA Listings: CUPA Resources List

A review of the CUPA Listings list, as provided by EDR, has revealed that there is 1 CUPA Listings

EXECUTIVE SUMMARY

site within approximately 0.25 miles of the requested target property.

 Site
 Address
 Direction / Distance
 Map ID / Focus Map(s)
 Page

 PG&E: CROW CREEK SWI
 23409 DAVIS RD
 ENE 1/8 - 1/4 (0.180 mi.)
 3 / 7
 31

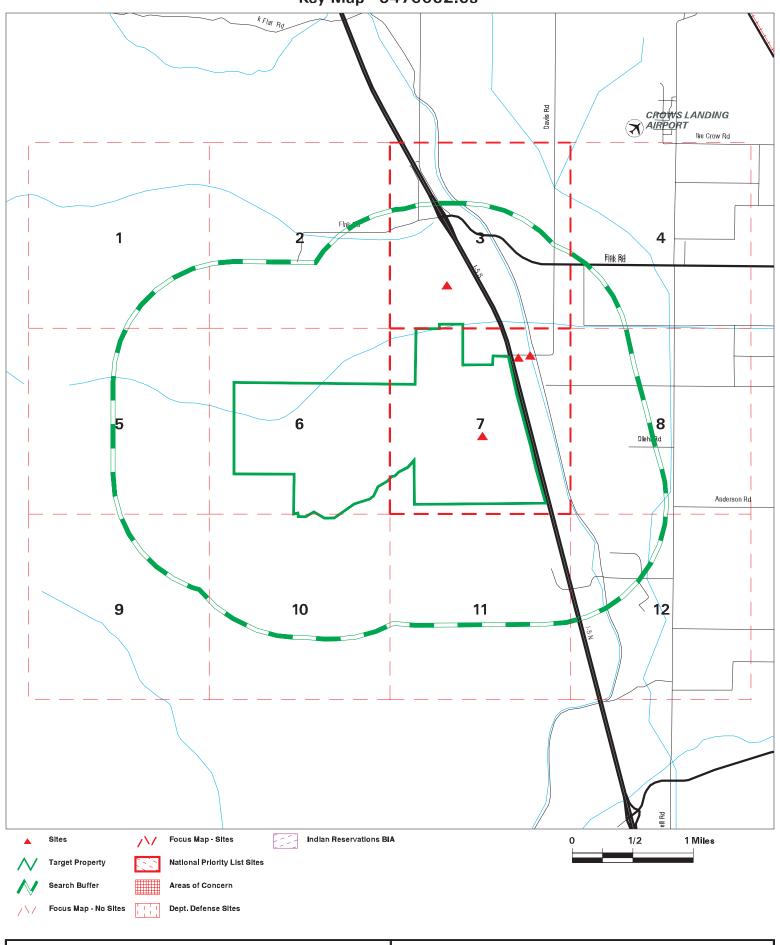
Database: CUPA STANISLAUS, Date of Government Version: 08/14/2018

MAPPED SITES SUMMARY

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		(ft. & n	,
1/7	MONITORING STATION	DAVIS RD-BELLTRAN FA	FINDS	TP		
2/7	BELTRAN FARMS	22601 DAVIS RD	SWEEPS UST, HIST UST	422	0.080	ENE
3/7	PG&E: CROW CREEK SWI	23409 DAVIS RD	CUPA Listings, CERS	948	0.180	ENE
4/3	OMS OF STANISLAUS	4040 FINK RD	RCRA-SQG, SWF/LF, CHMIRS, ICIS, US AIRS,	1693	0.321	North





SITE NAME: Beltran Ranch ADDRESS: 24776 Davis Road CITY/STATE: Newman CA ZIP: 95363 CLIENT: Dudek & Associates CONTACT: Audrey Herschberger INQUIRY#: 5476062.6s

INQUIRY #: 54/6062.6s DATE: 11/06/18 6:13 PM

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONME	NTAL RECORD	<u>s</u>						
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL sit	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	ist						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional cor engineering controls re								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent NPL							
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equiva	alent CERCLIS	S						
ENVIROSTOR	1.000		0	0	0	0	NR	0
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking	storage tank l	ists						
LUST	0.500		0	0	0	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST CPS-SLIC	0.500 0.500		0	0 0	0 0	NR NR	NR NR	0 0
State and tribal registere	d storage tan	ık lists						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
State and tribal voluntary	y cleanup site	es						
VCP INDIAN VCP	0.500 0.500		0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	elds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	NTAL RECORE	os						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
WMUDS/SWAT SWRCY HAULERS INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 TP 0.500 0.500 0.500 0.500		0 0 NR 0 0 0	0 0 NR 0 0 0	0 0 NR 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0 0
Local Lists of Hazardous Contaminated Sites	s waste /							
US HIST CDL HIST Cal-Sites SCH CDL Toxic Pits US CDL CERS HAZ WASTE	TP 1.000 0.250 TP 1.000 TP 0.250		NR 0 0 NR 0 NR 0	NR 0 0 NR 0 NR 0	NR 0 NR NR 0 NR	NR 0 NR NR 0 NR	NR NR NR NR NR NR	0 0 0 0 0 0
Local Lists of Registered	l Storage Tan	ıks						
SWEEPS UST HIST UST CA FID UST CERS TANKS	0.250 0.250 0.250 0.250		1 1 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	1 1 0 0
Local Land Records								
LIENS LIENS 2	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	> 1	Total Plotted	
DEED	0.500		0	0	0	NR	NR	0	
Records of Emergency Release Reports									
HMIRS CHMIRS LDS MCS SPILLS 90	TP TP TP TP TP		NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0	
Other Ascertainable Rec	ords								
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS ROD RMP RAATS PRP PADS ICIS FTTS MLTS COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA LEAD SMELTERS US AIRS US MINES ABANDONED MINES FINDS DOCKET HWC UXO ECHO FUELS PROGRAM CA BOND EXP. PLAN	0.250 1.000 1.000 0.500 TP TP 0.250 TP TP 1.000 TP TP TP TP TP TP TP TP TP TP TP TP TP	1	0 0 0 0 RR O RR R O RR R RR RR RR O RR RR O O O O O RR O O RR O	0 0 0 0 0 RR O RR R O RR RR RR RR RR O RR O	$\mathbf{N} \circ \circ \circ \mathbf{N} \mathbf{R} \mathbf{R} \mathbf{R} \mathbf{R} \mathbf{R} \mathbf{R} \mathbf{R} R$	$N \circ \circ R R R R R R R R R R R R R R R R R $	N N N N N N N N N N N N N N N N N N N	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Cortese CUPA Listings DRYCLEANERS	0.500 0.250 0.250		0 0 0	0 1 0	0 NR NR	NR NR NR	NR NR NR	0 1 0	

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE HWP	0.500 1.000		0 0	0 0	0 0	NR 0	NR NR	0 0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	Ö	NR	NR	NR	0
MWMP	0.250		Ö	Ö	NR	NR	NR	Ö
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS WDS	0.500 TP		0 NR	0 NR	0 NR	NR NR	NR NR	0 0
WIP	0.250		0	0	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	Õ
PROJECT	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
CIWQS SAMPLING POINT	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORIC	AL RECORDS							·
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVER	NMENT ARCH	IVES						
Exclusive Recovered Go	vt. Archives							
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		1	2	1	1	0	0	5

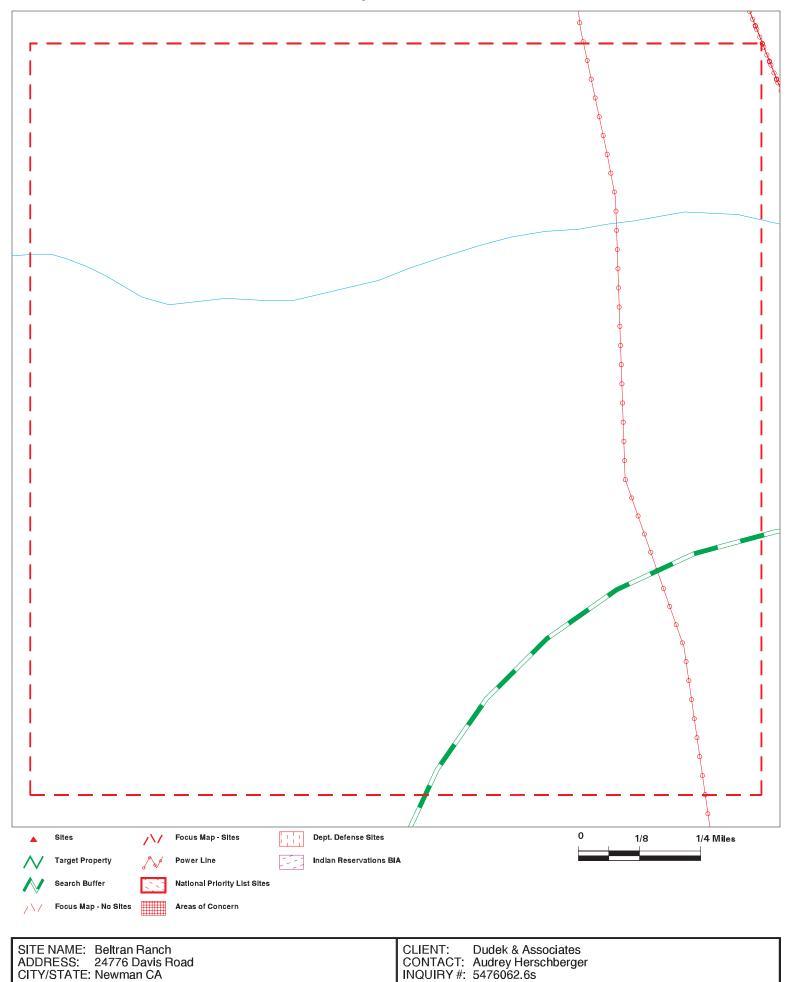
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 5476062.6s



ZIP:

95363

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11/06/18

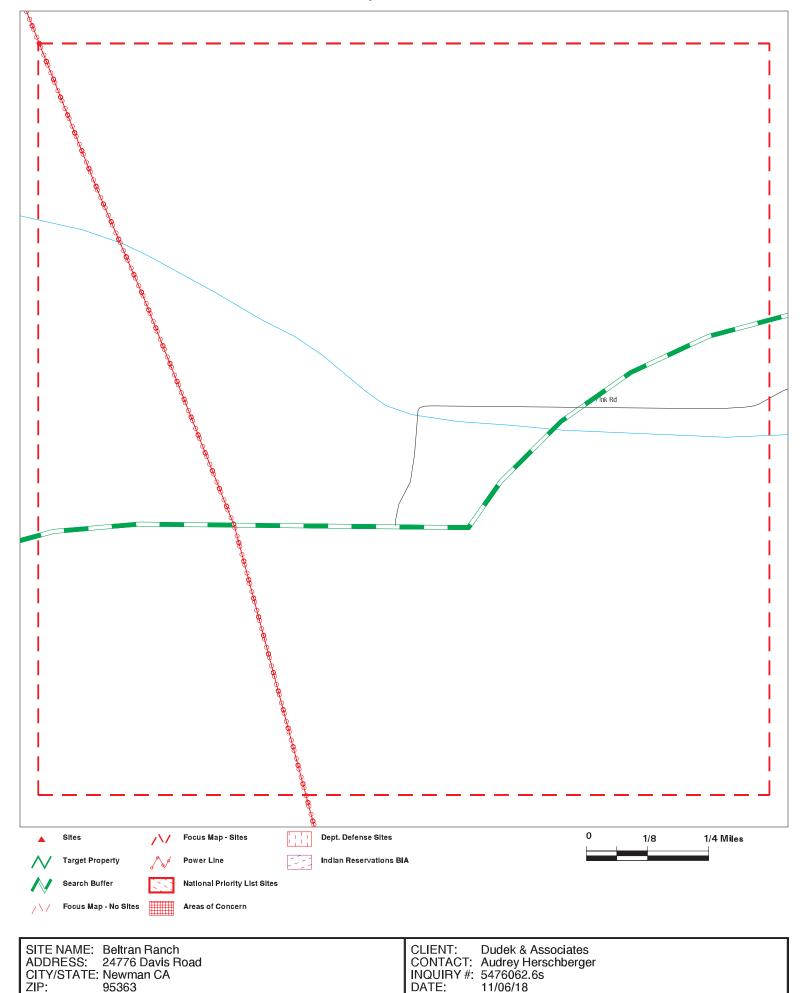
DATE:

MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND



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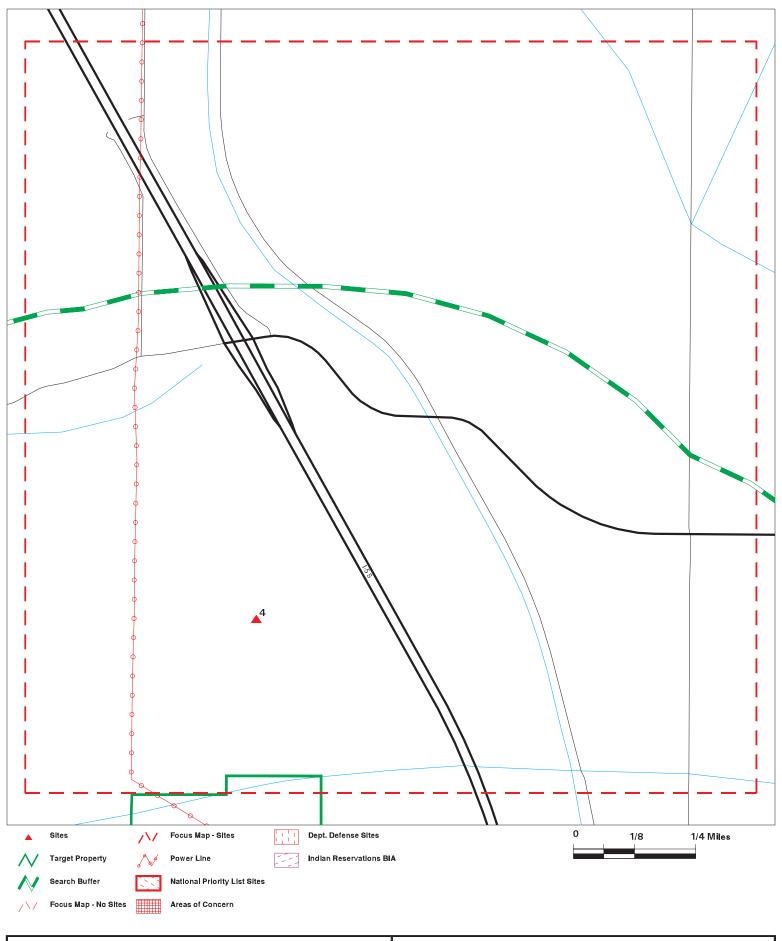
MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 3 - 5476062.6s



SITE NAME: Beltran Ranch ADDRESS: 24776 Davis Road CITY/STATE: Newman CA ZIP: 95363 CLIENT: Dudek & Associates CONTACT: Audrey Herschberger

INQUIRY #: 5476062.6s DATE: 11/06/18

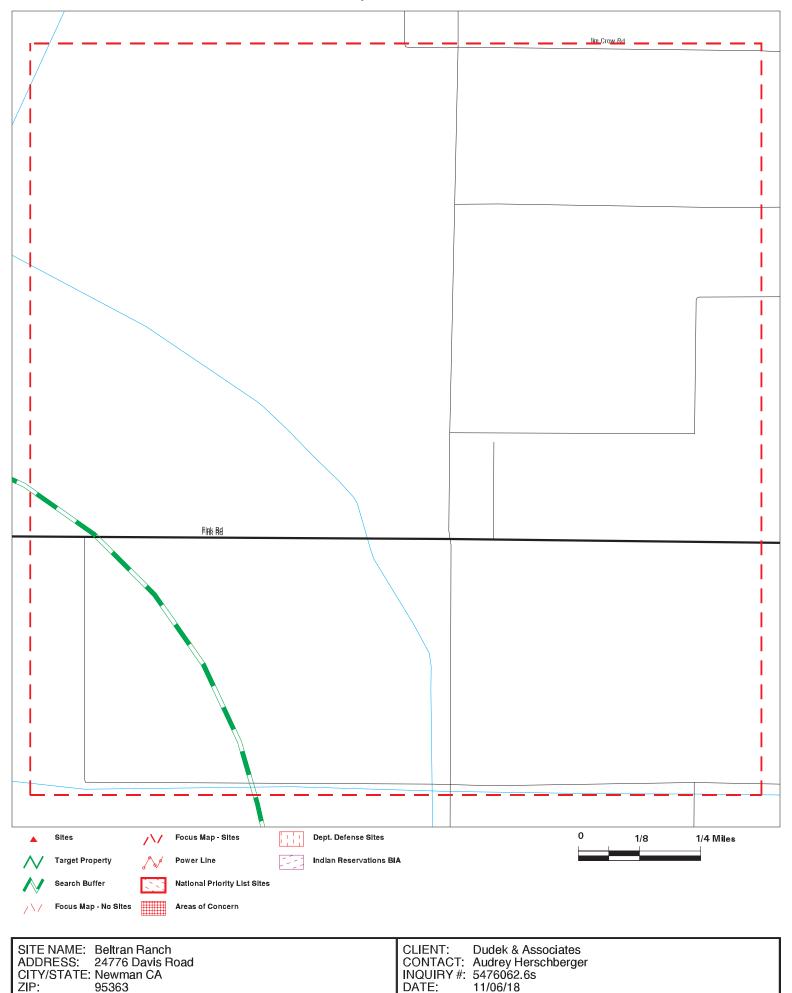
MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.)
FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

4/3 OMS OF STANISLAUS 4040 FINK RD RCRA-SQG, SWF/LF, CHMIRS, ICIS, US AIRS,... 1693 0.321 North

Focus Map - 4 - 5476062.6s



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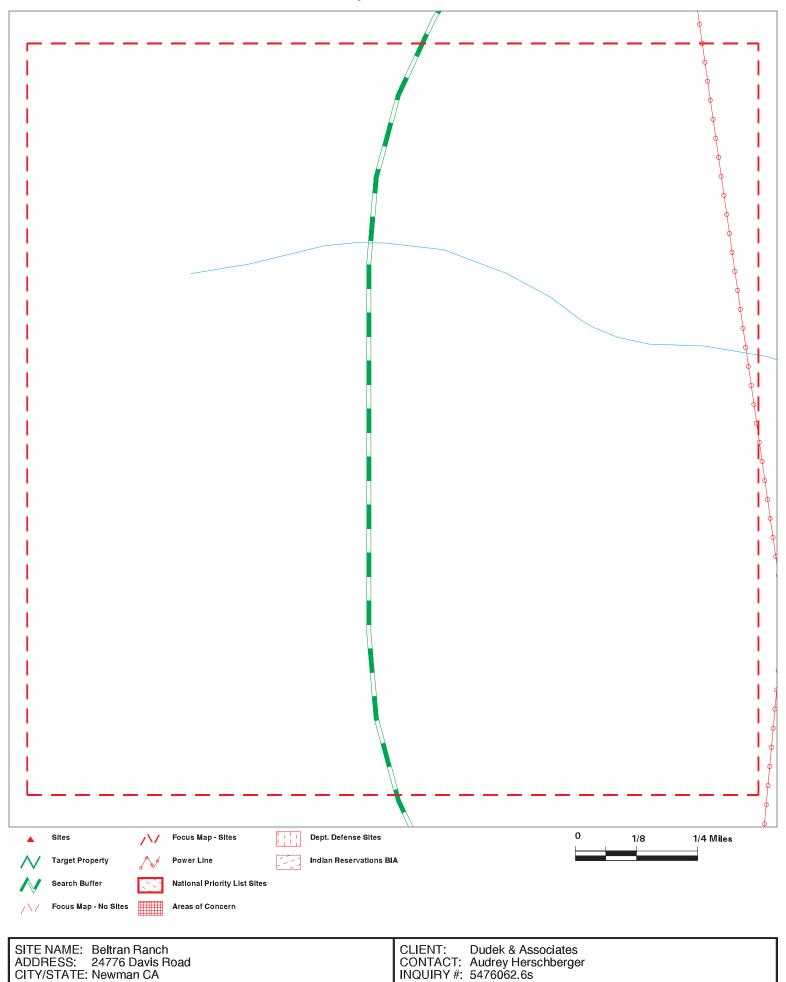
MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 5 - 5476062.6s



ZIP:

95363

DATE: 11/06/18

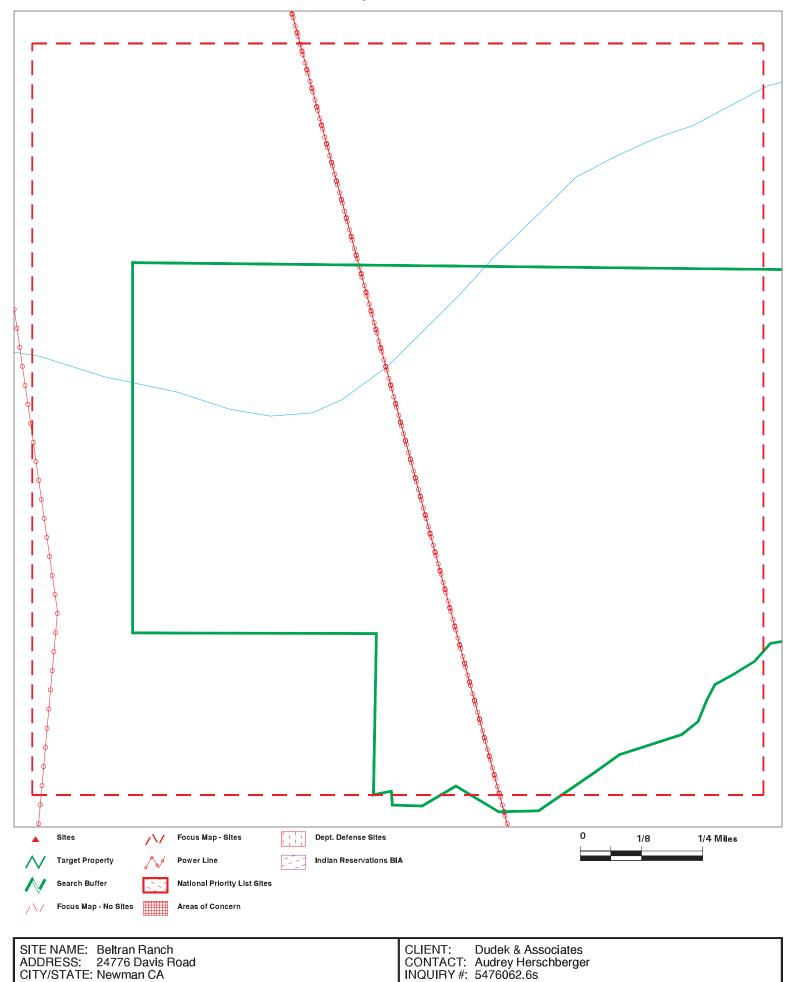
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MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND



ZIP:

95363

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11/06/18

DATE:

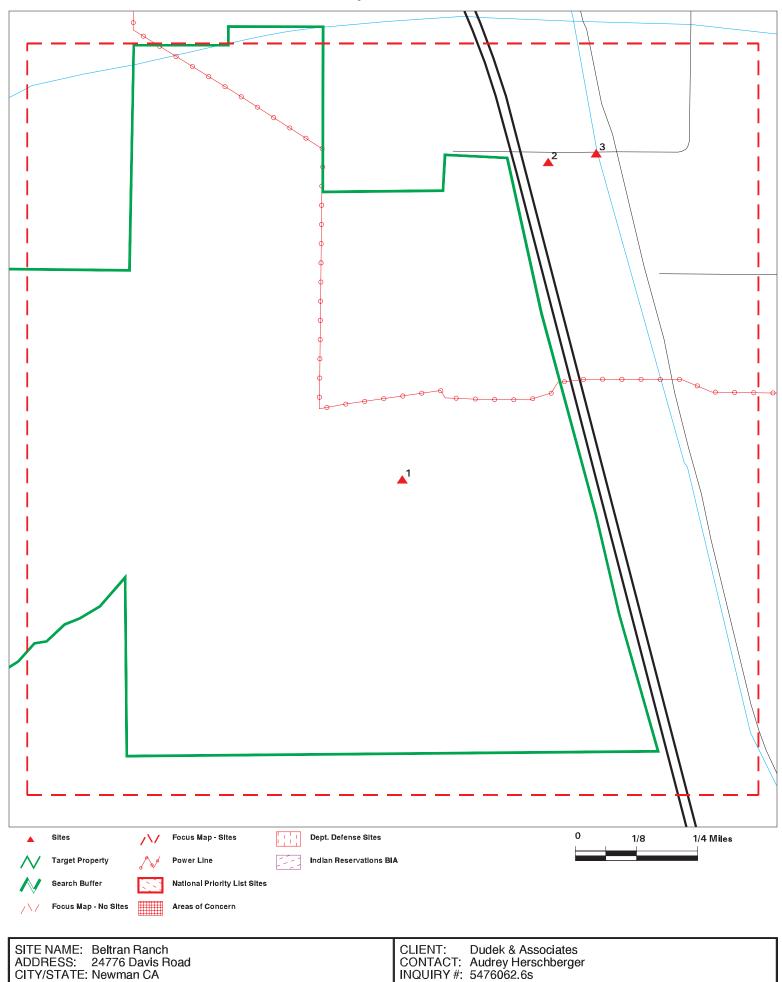
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 7 - 5476062.6s



ZIP:

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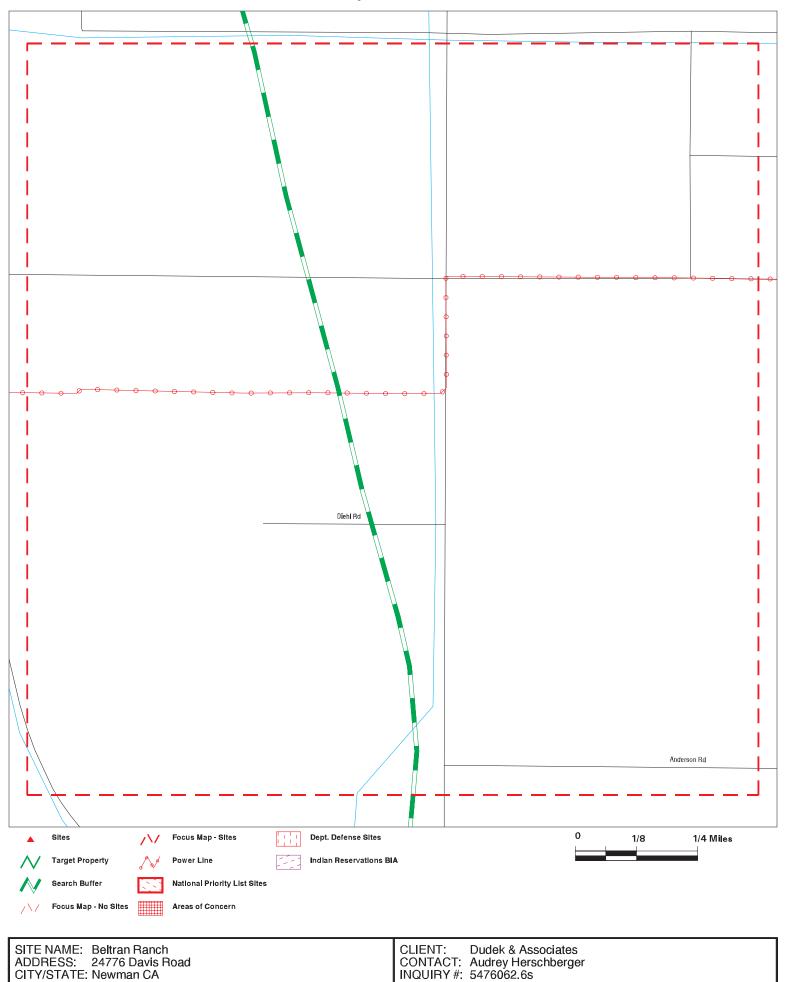
DATE:

MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
1/7	MONITORING STATION	DAVIS RD-BELLTRAN FA	FINDS	TP
2/7	BELTRAN FARMS	22601 DAVIS RD	SWEEPS UST, HIST UST	422 0.080 ENE
3/7	PG&E: CROW CREEK SWI	23409 DAVIS RD	CUPA Listings, CERS	948 0.180 ENE

Focus Map - 8 - 5476062.6s



ZIP:

95363

DATE: 11/06/18

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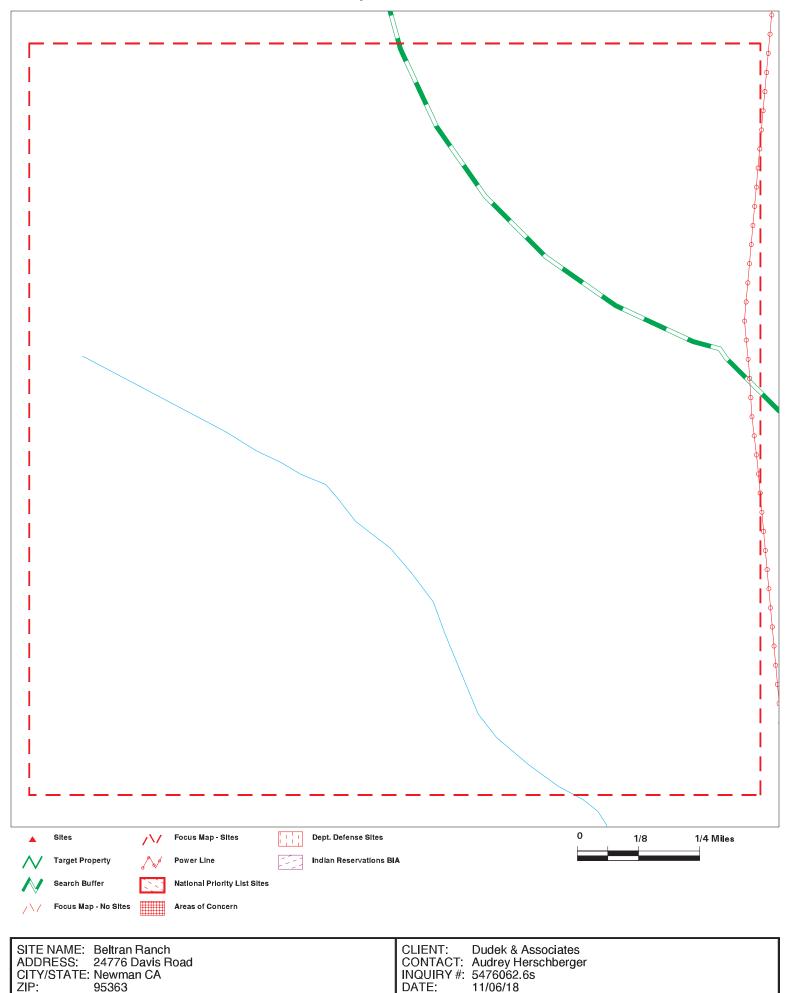
MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Focus Map - 9 - 5476062.6s



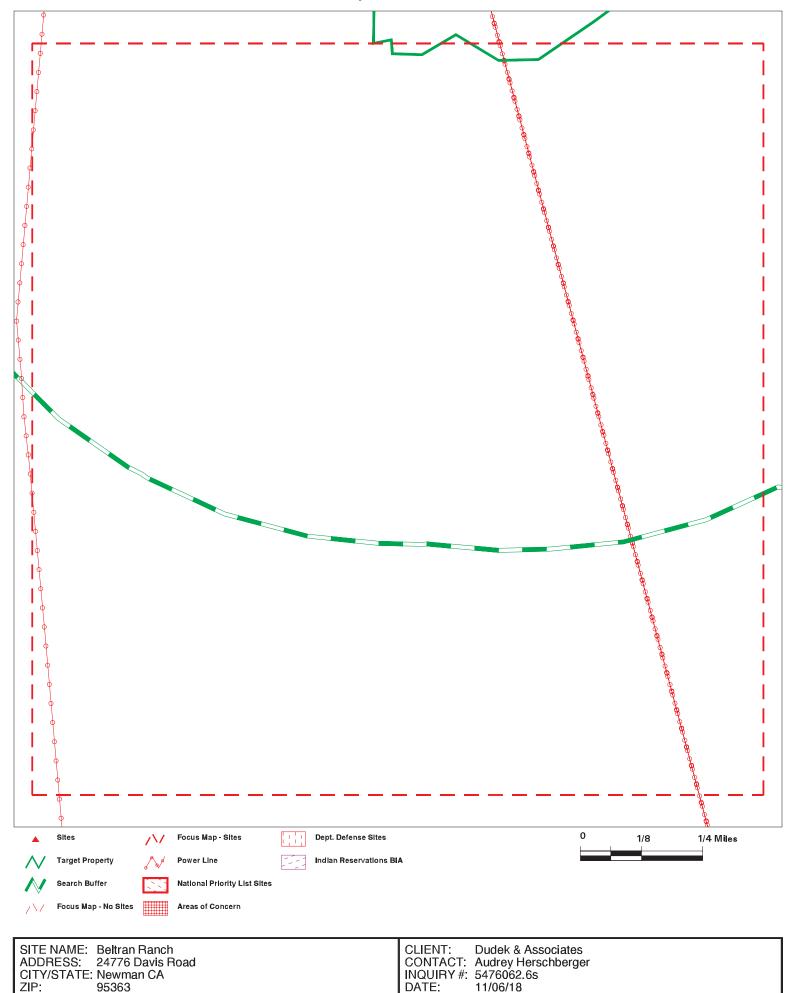
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MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND



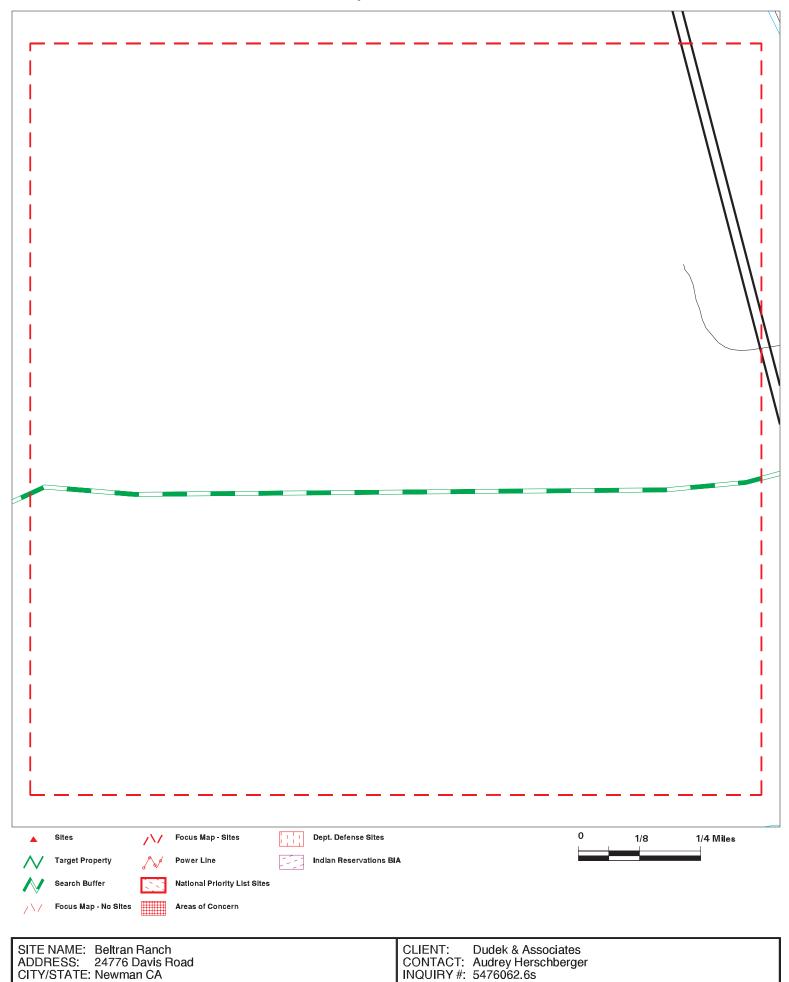
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MAPPED SITES SUMMARY - FOCUS MAP 10

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND



ZIP:

95363

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11/06/18

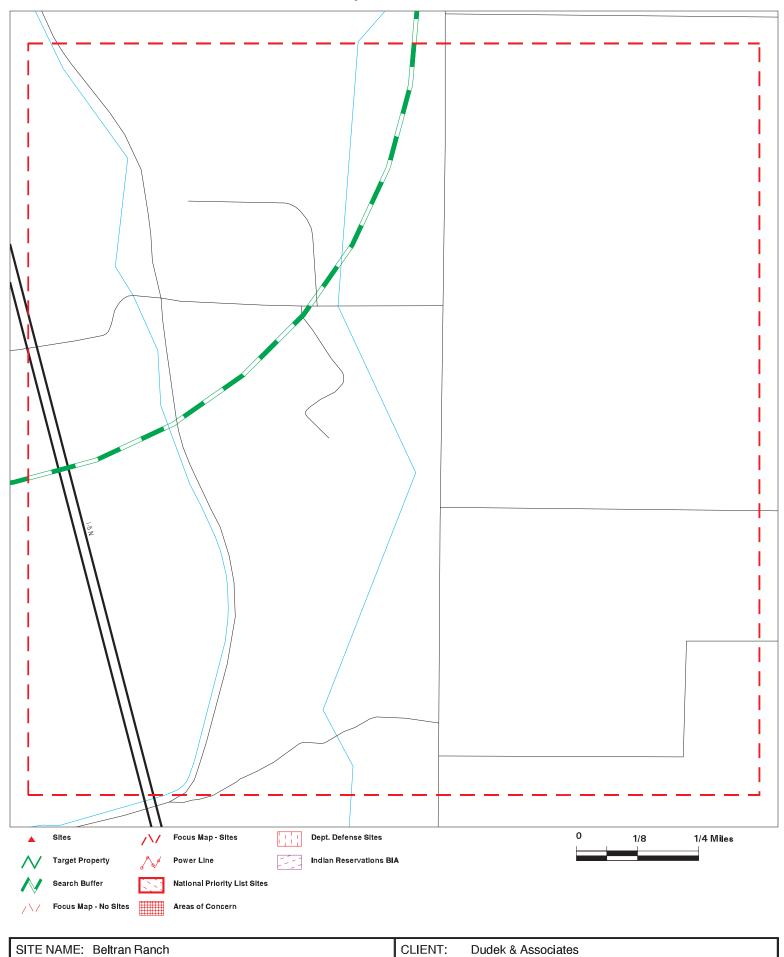
DATE:

MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND



ADDRESS: 24776 Davis Road CITY/STATE: Newman CA ZIP: 95363

CLIENT: Dudek & Associates CONTACT: Audrey Herschberger

INQUIRY#: 5476062.6s DATE: 11/06/18

MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property: 24776 DAVIS ROAD NEWMAN, CA 95360

MAP ID / DIST (ft. & mi.) FOCUS MAP SITE NAME ADDRESS DATABASE ACRONYMS DIRECTION

NO MAPPED SITES FOUND

Direction Distance

Distance EDR ID Number
Elevation Site EDR ID Number

1 MONITORING STATION FINDS 1008214895
Target DAVIS RD-BELLTRAN FARM N/A

Target DAVIS RD-BELLTRAN FARM Property CROWS LANDING, CA 95313

FINDS:

Actual: Registry ID: 110020917089

283 ft.

Environmental Interest/Information System

Focus Map:

US EPA Air Quality System (AQS) contains ambient air pollution data

collected by EPA, State, Local, and Tribal air pollution control

agencies from thousands of monitoring stations.

Click this hyperlink while viewing on your computer to access

additional FINDS: detail in the EDR Site Report.

2 BELTRAN FARMS SWEEPS UST U001605036 ENE 22601 DAVIS RD HIST UST N/A

< 1/8 CROWS LANDING, CA 95313

0.080 mi. 422 ft.

Actual: SWEEPS UST:

 242 ft.
 Status:
 Active

 Focus Map:
 Comp Number:
 31370

 7
 Number:
 9

Board Of Equalization: Not reported Referral Date: 07-01-85 Action Date: Not reported Created Date: 02-29-88

Owner Tank Id:

SWRCB Tank Id: 50-000-031370-000001

Tank Status: A
Capacity: 550
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED

Number Of Tanks: 1

HIST UST:

File Number: 00021B00

URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00021B00.pdf

 Region:
 STATE

 Facility ID:
 00000031370

 Facility Type:
 Other

 Other Type:
 FARM

Contact Name: JOHN BELTRAN
Telephone: 2098374331
Owner Name: BELTRAN FARMS
Owner Address: 22601 DAVIS RD

Owner City,St,Zip: CROWSLANDING, CA 95313

Total Tanks: 0001

Tank Num: 001 Container Num: 1

Year Installed: Not reported Tank Capacity: 00000550

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BELTRAN FARMS (Continued) U001605036

Tank Used for: **PRODUCT** Type of Fuel: REGULAR Container Construction Thickness: Not reported Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

3 **PG&E: CROW CREEK SWITCHING STATION CUPA Listings** S119107224 **ENE 23409 DAVIS RD CERS** N/A

1/8-1/4 **NEWMAN, CA 95360**

0.180 mi. 948 ft.

Actual: **CUPA STANISLAUS:**

238 ft. **STANISLAUS** Region: Facility ID: FA0002416 Focus Map: CERS ID: 10655779 Mailing Address: PO Box 7640

> Mailing City/State/Zip: San Francisco, CA 94120

CERS TANKS:

Site ID: 363307 CERS ID: 10655779

CERS Description: Chemical Storage Facilities

Evaluation:

Eval General Type: Compliance Evaluation Inspection

Eval Date: 05-20-2016 Violations Found: No

Eval Type: Routine done by local agency

Eval Notes: Not reported

Eval Division: Stanislaus County Environmental Resources

Eval Program: **HMRRP** Eval Source: **CERS**

Affiliation:

Affiliation Type Desc: **CUPA District**

Entity Name: Stanislaus Cnty Env Res.

Entity Title: Not reported

Affiliation Address: 3800 Cornucopia Way, Suite C

Affiliation City: Modesto Affiliation State: CA

Affiliation Country: Not reported 95358 Affiliation Zip:

Affiliation Phone: (209) 525-6700

Affiliation Type Desc: **Document Preparer** Entity Name: Liza Marfori, Parsons

Entity Title: Not reported Affiliation Address: Not reported Affiliation City: Not reported Affiliation State: Not reported Affiliation Country: Not reported Not reported Affiliation Zip: Affiliation Phone: Not reported

Affiliation Type Desc: **Environmental Contact**

Direction Distance

Elevation Site Database(s) EPA ID Number

PG&E: CROW CREEK SWITCHING STATION (Continued)

S119107224

EDR ID Number

Entity Name: Stephen Dioszegi Entity Title: Not reported

Affiliation Address: 16182 Jasper Sears Road

Affiliation City: Santa Nella

Affiliation State: CA

Affiliation Country: Not reported
Affiliation Zip: 95322

Affiliation Phone: (209) 814-4504

Affiliation Type Desc: Facility Mailing Address

Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 7640
Affiliation City: San Francisco

Affiliation State: CA

Affiliation Country: Not reported
Affiliation Zip: 94120
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer Entity Name: Daniel Sanchez

Entity Title: Hazardous Materials & Water Quality Manager

Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner

Entity Name: Pacific Gas & Electric Company

Entity Title: Not reported

Affiliation Address: c/o Environmental Services, 3401 Crow Canyon Road

Affiliation City: San Ramon

Affiliation State: CA

Affiliation Country: United States
Affiliation Zip: 94583

Affiliation Phone: (415) 973-7000

Affiliation Type Desc: Operator

Entity Name: Pacific Gas & Electric Company

Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (209) 726-7633

Affiliation Type Desc: Parent Corporation

Entity Name: PG&E
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PG&E: CROW CREEK SWITCHING STATION (Continued)

S119107224

WDS

Affiliation Phone: Not reported

OMS OF STANISLAUS RCRA-SQG 1000595770 North **4040 FINK RD** SWF/LF CAD983597253

1/4-1/2 **CROWS LANDING, CA 95313 CHMIRS** 0.321 mi. **ICIS** 1693 ft. **US AIRS EMI** Actual:

314 ft. RCRA-SQG: Focus Map:

Date form received by agency: 07/30/1991

OMS OF STANISLAUS Facility name:

4040 FINK RD Facility address:

CROWS LANDING, CA 95313

EPA ID: CAD983597253 Mailing address: P O BOX 278

CROWS LANDING, CA 95313

Contact: FRED ENGLEHARDT

Contact address: 4040 FINK RD

CROWS LANDING, CA 95313

Contact country: US

209-837-4423 Contact telephone: Contact email: Not reported

EPA Region:

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

NOT REQUIRED Owner/operator name: Owner/operator address: NOT REQUIRED

NOT REQUIRED, ME 99999

Owner/operator country: Not reported Owner/operator telephone: 415-555-1212 Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension: Private Legal status: Owner/Operator Type: Operator

Owner/Op start date: Not reported Owner/Op end date: Not reported

OMS OF STANISLAUS Owner/operator name: Owner/operator address: NOT REQUIRED

NOT REQUIRED, ME 99999

Owner/operator country: Not reported Owner/operator telephone: 415-555-1212 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private

Owner/Operator Type: Owner

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

Owner/Op start date: Not reported Not reported Owner/Op end date:

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: Nο Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Violation Status: No violations found

SWF/LF (SWIS):

Facility ID: 50-AA-0009

Lat/Long: 37.38569 / -121.1409 Owner Name: County Of Stanislaus Owner Telephone: 2095256360 Owner Address: Not reported

3800 Cornucopia Way, Suite C Owner Address2:

Owner City,St,Zip: Modesto, CA 95358

Operational Status: Active

Ogden Martin Systems Of Stanislaus, Inc. Operator:

Operator Phone: 2098374423 Operator Address: Not reported 4040 Fink Road Operator Address2:

Operator City,St,Zip: Crows Landing, CA 95313

Permit Date: 11/26/2001 Permit Status: Permitted Permitted Acreage: 16

Activity: Large Volume Transfer/Proc Facility

Regulation Status: Permitted Landuse Name: Not reported

GIS Source: Мар

Transfer/Processing Category: Unit Number: 01

Inspection Frequency: Monthly Accepted Waste: Mixed municipal Closure Date: Not reported Closure Type: Not reported Disposal Acreage: Not reported SWIS Num: 50-AA-0009 Waste Discharge Requirement Num: Not reported

Transformation Facility Program Type:

1700 Permitted Throughput with Units: Actual Throughput with Units: Tons/day Permitted Capacity with Units: 3200 Remaining Capacity: Not reported

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

Remaining Capacity with Units: Tons/day Lat/Long: 37.38569 / -121.1409

CHMIRS:

OES Incident Number: 1-4406 OES notification: 08/01/2001 OES Date: Not reported **OES Time:** Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Not reported Agency Incident Number: Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No

Waterway: Not reported Spill Site: Not reported Cleanup By: Unknown Containment: Not reported What Happened: Not reported Not reported Type: Not reported Measure: Other: Not reported Date/Time: Not reported Year: 2001

Agency: Covanta Stanislaus Inc. Incident Date: 8/1/200112:00:00 AM

Admin Agency: Stanislaus County Environmental Resources

Amount: Not reported Contained: Yes Site Type: Other E Date: Not reported

Substance: Radioactive Medical Waste

Unknown: Unknown
Substance #2: Not reported
Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0

Distance Elevation

n Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Number of Fatalities: 0

Not reported #1 Pipeline: #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported Not reported #3 Vessel >= 300 Tons: Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: Substance was Shipped to company for disposal.

Company is rejecting materials. Materials are contained in truck dumpster. Dumpster is in a secured back lot area. Substance is currently

admitting 5000 Microrims per hour.

OES Incident Number: 0-1668 OES notification: 04/12/2000 OES Date: Not reported **OES Time:** Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Not reported Time Notified: Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Not reported Vehicle Id Number: CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported

Waterway Involved: No

Waterway: Not reported Spill Site: Not reported Reporting Party Cleanup By: Containment: Not reported What Happened: Not reported Not reported Type: Measure: Not reported Other: Not reported Date/Time: Not reported 2000 Year:

TC5476062.6s Page 36

Distance Elevation Site

Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Agency: Ogeden Martin Systems of Stanislaus

Incident Date: 4/11/200012:00:00 AM

Admin Agency: Stanislaus County Environmental Resources

Amount: Not reported Contained: Yes

Site Type: Merchant/Business
F. Date: Not reported

E Date: Not reported
Substance: Sodium Hydroxide Solution

Gallons: 4,000 Unknown: 0

Substance #2: Not reported Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0
#1 Pipeline: Not reported

#2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Not reported Injuries: Fatals: Not reported Comments: Not reported

Description: Appears that the substance was mistakenly placed

in the rain collection ditch. Incident is under

investigation by the company.

OES Incident Number: 5-0079 OES notification: 01/05/2005 OES Date: Not reported **OES Time:** Not reported **Date Completed:** Not reported Not reported Property Use: Not reported Agency Id Number: Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Not reported Estimated Temperature: Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Not reported Vehicle Make/year: Vehicle License Number: Not reported Vehicle State: Not reported Not reported Vehicle Id Number: CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported

Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Facility Telephone: Not reported Not reported Waterway Involved: Waterway: Not reported Spill Site: Not reported Cleanup By: Unknown Containment: Not reported Not reported What Happened: Type: Not reported Measure: Not reported Other: Not reported Date/Time: Not reported 2005 Year:

Agency: Covanta Energy Incident Date: 1/5/200512:00:00 AM

Admin Agency: Stanislaus County Environmental Resources

Amount: Not reported
Contained: No
Site Type: Other
E Date: Not reported

Substance: Radio Active waste Hospital waste

Gallons: 0.000000 Unknown: 0

Substance #2: Not reported Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Not reported Injuries: Fatals: Not reported Comments: Not reported

Description: Per caller, probes detected material in a garbage

truck.

OES Incident Number: 5-5107 OES notification: 09/01/2005 OES Date: Not reported OES Time: Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

Others Number Of Decontaminated: Not reported Not reported Others Number Of Injuries: Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Not reported Vehicle State: Not reported Vehicle Id Number: CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: Not reported Waterway: Not reported Spill Site: Not reported Cleanup By: Unknown Containment: Not reported What Happened: Not reported Type: Not reported Measure: Not reported Other: Not reported Date/Time: Not reported 2005 Year: Agency: Covanta Energy

9/1/200512:00:00 AM Incident Date:

Admin Agency: Stanislaus County Environmental Resources

Amount: Not reported Contained: No Site Type: Other E Date: Not reported Substance: High Rad Reading

Gallons: 0.000000 Unknown:

Substance #2: Not reported Substance #3: Not reported

Evacuations: 0 Number of Injuries: 0 Number of Fatalities:

Not reported #1 Pipeline: Not reported #2 Pipeline: #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: Caller states A 45 ft trailer has a RAD reading 150 Micro RIMS. Per Caller his allowable reading

is 75 RIMS. Trailer will be parked in a secure

area.

OES Incident Number: 1-2745 OES notification: 05/11/2001 OES Date: Not reported **OES Time:** Not reported

Direction Distance Elevation

ion Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Date Completed: Not reported Property Use: Not reported Not reported Agency Id Number: Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Not reported Vehicle Make/year: Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No Waterway: Not reported Spill Site: Not reported Cleanup By: Unknown Containment: Not reported What Happened: Not reported Type: Not reported Measure: Not reported Other: Not reported Date/Time: Not reported 2001 Year:

Agency: Covanta Energy Incident Date: 5/11/200112:00:00 AM

Admin Agency: Stanislaus County Environmental Resources

Amount: Not reported
Contained: Yes
Site Type: Other
E Date: Not reported
Substance: Autoclave Waste

Unknown: unk

Substance #2: Not reported Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0

#1 Pipeline:

#2 Pipeline:

#3 Pipeline:

#1 Vessel >= 300 Tons:

#2 Vessel >= 300 Tons:

#3 Vessel >= 300 Tons:

#4 Not reported

#5 Not reported

#6 Not reported

#7 Not reported

#8 Vessel >= 300 Tons:

#8 Not reported

#9 Not reported

#9 Not reported

#9 Not reported

#9 Not reported

MAP FINDINGS Map ID Direction

Distance Elevation

Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Injuries: Not reported Not reported Fatals: Comments: Not reported

Description: Waste Pick up truck is reading higher rads than

the company normally accepts. Truck is reading

250 Micro Rads

OES Incident Number: 1-2700 OES notification: 05/10/2001 OES Date: Not reported **OES Time:** Not reported Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Not reported Report Date: Facility Telephone: Not reported Waterway Involved: No

Waterway: Not reported Spill Site: Not reported Cleanup By: Unknown Containment: Not reported What Happened: Not reported Type: Not reported Measure: Not reported Other: Not reported Date/Time: Not reported Year: 2001

Agency: Covanta Energy of Stanislaus Incident Date: 5/10/200112:00:00 AM

Stanislaus County Environmental Resources Admin Agency:

Amount: Not reported Contained: Yes Other Site Type: E Date: Not reported Substance: Medical Waste

Unknown: Unk

Substance #2: Not reported

Distance Elevation

ce EDR ID Number ion Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: Has a waste pick up truck with High Rad Level (

220 Mic Rads) which is above what they normally accept at their facility. Waste is still loaded on the truck and they want to know what they can

do with it

Not reported

Not reported

OES Incident Number: 1-4129 OES notification: 07/18/2001 OES Date: Not reported **OES Time:** Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Not reported Vehicle Make/year: Not reported Vehicle License Number: Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No Waterway: Not reported Spill Site: Not reported Cleanup By: Unknown Containment: Not reported What Happened: Not reported

Type:

Measure:

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Other: Not reported Not reported Date/Time: 2001 Year:

Covanta Energy Agency: 7/18/200112:00:00 AM Incident Date:

Stanislaus County Environmental Resources Admin Agency:

Amount: Not reported Contained: Yes Site Type: Other E Date: Not reported Substance: High Radiation 0.000000 Unknown: Substance #2: Not reported Substance #3: Not reported

Evacuations: Number of Injuries: 0 Number of Fatalities: 0

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported Not reported #3 Vessel >= 300 Tons: Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: Discovered high levels of radiation on a truck with a hand scanner. Levels were at 485 of high

radiation.

ICIS:

CASJVA000006099N207300201 Enforcement Action ID:

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300201

COVANTA STANISLAUS, INC Facility Name:

4040 FINK RD Facility Address:

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: **STANISLAUS**

Program System Acronym: **AIR**

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: **SCAAAO** Facility SIC Code: 4931 Federal Facility ID: Not reported Latitude in Decimal Degrees: 37.38538 Longitude in Decimal Degrees: -121.14088 Permit Type Desc: Not reported

CASJV00006099N2073 Program System Acronym:

Facility NAICS Code: 221111 Tribal Land Code: Not reported

CASJVA00006099N207300199 Enforcement Action ID:

FRS ID: 110000514676

COVANTA STANISLAUS, INC 06099N207300199 Action Name:

Facility Name: COVANTA STANISLAUS, INC

4040 FINK RD Facility Address:

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300184

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300184

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300182

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300182

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300160

FRS ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Action Name: COVANTA STANISLAUS, INC 06099N207300160

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300158

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300158

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300142

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300142

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Enforcement Action ID: CASJVA000006099N207300140

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300140

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300068

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300068

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300059

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300059

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300057

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300057

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300055

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300055

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300053

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300053

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538

Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300050

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300050

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300048

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300048

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300037

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300037

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Administrative Order Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Formal

EA Type Code: SCAAAO

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300035

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300035

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

Enforcement Action ID: CASJVA000006099N207300020

FRS ID: 110000514676

Action Name: COVANTA STANISLAUS, INC 06099N207300020

Facility Name: COVANTA STANISLAUS, INC

Facility Address: 4040 FINK RD

CROWS LANDING, CA 953130000

Enforcement Action Type: Notice of Violation Facility County: STANISLAUS

Program System Acronym: AIR

Enforcement Action Forum Desc: Administrative - Informal

EA Type Code: NOV
Facility SIC Code: 4931
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.38538
Longitude in Decimal Degrees: -121.14088
Permit Type Desc: Not reported

Program System Acronym: CASJV00006099N2073

Facility NAICS Code: 221111
Tribal Land Code: Not reported

US AIRS (AFS):

Envid: 1000595770

Region Code: 09

County Code: CA099

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676 D and B Number: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Facility Site Name: COVANTA STANISLAUS, INC

Primary SIC Code: 4931

NAICS Code: 221111

Default Air Classification Code: MAJ

Facility Type of Ownership Code: POF

Air CMS Category Code: TVM

HPV Status: Not reported

US AIRS (AFS):

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Performance Standards

Activity Date: 2007-04-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1990-06-20 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1991-09-19 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1993-03-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Direction

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1993-07-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1994-08-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1995-04-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1996-01-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1997-03-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1998-09-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 1999-09-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2000-08-03 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2001-09-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2003-05-28 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2003-10-18 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2003-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2004-02-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2004-02-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2004-06-30 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2006-03-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2007-04-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2007-05-14 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: New Source Review Permit Requirements

Activity Date: 2008-05-19 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Prevention of Significant Deterioration of Air Quality

Activity Date: 2007-04-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: Not reported

Activity Status Date: 1996-04-10 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Air Program: State Implem Activity Date: Not reported

Activity Status Date: 1996-11-18 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: Not reported

Activity Status Date: 1997-08-03 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: Not reported
Activity Status Date: 1998-07-21 00:00:00

Activity Group: Case File Activity Type: Case File

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Resolved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2005-08-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-09-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-04-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2015-05-12 00:00:00
Activity Status Date: 2015-05-18 13:13:08
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2015-08-06 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: 2015-08-10 11:13:08
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-10 00:00:00
Activity Status Date: 2016-07-18 10:18:27
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-10 00:00:00
Activity Status Date: 2016-07-18 10:18:34
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-10 00:00:00
Activity Status Date: 2016-07-18 10:18:48
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-10 00:00:00
Activity Status Date: 2016-07-18 10:19:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-10 00:00:00
Activity Status Date: 2016-08-08 08:13:11
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:18:35
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:18:52
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:19:23
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:20:03
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-08-01 08:13:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1988-08-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1989-09-06 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1989-12-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1990-02-13 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1990-06-20 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1990-09-07 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1991-01-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1991-09-19 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1992-04-28 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1992-06-18 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1992-08-03 00:00:00

Activity Status Date: 1992-08-03 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1993-03-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1993-07-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1994-08-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1995-04-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-01-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-03-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1998-02-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1998-09-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1999-09-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2000-08-03 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2001-09-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2002-05-10 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2003-05-28 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2003-10-18 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2003-10-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2004-02-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2004-02-25 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2004-06-30 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2005-06-17 00:00:00

Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2005-09-09 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-03-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-05-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-05-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-06-28 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-09-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-04-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

EDR ID Number Elevation **EPA ID Number** Site Database(s)

OMS OF STANISLAUS (Continued)

Activity Status:

1000595770

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-04-19 00:00:00

Activity Status Date: Not reported

Activity Group: **Compliance Monitoring** Inspection/Evaluation Activity Type:

Region Code: 09

AIR CASJV00006099N2073 Programmatic ID:

Not reported

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-04-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

AIR CASJV00006099N2073 Programmatic ID:

Facility Registry ID: 110000514676

Air Operating Status Code: **OPR** Default Air Classification Code:

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-05-14 00:00:00

Activity Status Date: Not reported

Activity Group: **Compliance Monitoring** Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-05-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Inspection/Evaluation Activity Type:

Activity Status: Not reported

Region Code:

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-05-17 00:00:00 Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-01-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-02-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-05-19 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-05-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-07-22 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-09-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-10-30 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-01-09 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-05-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-06-22 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-06-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-07-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-07-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-08-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-08-18 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-09-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-09-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-09-16 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-12-23 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-01-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-03-05 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-05-03 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-05-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-05-26 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-08-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-08-24 00:00:00

Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Activity Status: Not reported

Region Code: 09

Activity Type:

Programmatic ID: AIR CASJV00006099N2073

Inspection/Evaluation

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-09-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-09-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-09-26 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-01-21 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-01-27 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-02-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-03-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

Activity Status:

1000595770

EDR ID Number

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-03-14 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Not reported

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-03-28 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-06-08 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-08-10 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-12-07 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-12-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-01-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-05-02 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-05-16 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-07-11 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-01-22 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-03-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-05-09 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-05-14 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2013-11-25 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2014-01-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2014-02-02 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2014-05-13 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2014-06-16 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-03-29 00:00:00
Activity Status Date: 1996-03-29 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-04-10 00:00:00
Activity Status Date: 1996-04-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-01-14 00:00:00
Activity Status Date: 1997-01-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1998-01-09 00:00:00
Activity Status Date: 1998-01-09 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1998-07-15 00:00:00
Activity Status Date: 1998-07-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1995-07-13 00:00:00
Activity Status Date: 1995-07-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1995-12-27 00:00:00
Activity Status Date: 1995-12-27 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1996-11-18 00:00:00
Activity Status Date: 1996-11-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-08-03 00:00:00
Activity Status Date: 1997-08-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1998-05-07 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: 1998-05-07 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2009-03-12 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code:

Default Air Classification Code:

Air Program:

Activity Date:

OPR

MAJ

Title V Permits

Not reported

Activity Status Date: 2010-05-10 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2011-06-02 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2012-11-29 00:00:00

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2005-08-15 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2006-09-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2007-04-24 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Compliance Investigation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-01-22 00:00:00
Activity Status Date: 2015-03-26 13:13:12
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-03-17 00:00:00
Activity Status Date: 2015-03-20 13:13:14
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-05-12 00:00:00
Activity Status Date: 2015-05-18 13:13:08
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-08-06 00:00:00
Activity Status Date: 2015-08-10 11:13:08
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-08-06 00:00:00
Activity Status Date: 2015-08-11 11:13:02
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-01-15 00:00:00
Activity Status Date: 2016-01-21 08:13:10
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-01-21 00:00:00
Activity Status Date: 2016-01-22 17:10:44
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-01-21 00:00:00
Activity Status Date: 2016-01-29 11:13:21
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits

Activity Date: 2016-05-10 00:00:00

Activity Status Date: 2016-07-18 10:18:27

Activity Group: Compliance Monitoring

Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-10 00:00:00
Activity Status Date: 2016-07-18 10:18:34
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-10 00:00:00
Activity Status Date: 2016-07-18 10:18:48
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-10 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: 2016-07-18 10:19:17
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-10 00:00:00
Activity Status Date: 2016-08-08 08:13:11
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code:
Default Air Classification Code:
Activity Date:
Activity Status Date:
Activity Group:
Activity Type:
OPR
MAJ
Title V Permits
2016-05-19 00:00:00
2016-07-18 10:18:35
Compliance Monitoring
Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:18:44
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:18:52
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: Title V Permits

Activity Date: 2016-05-19 00:00:00

Activity Status Date: 2016-07-18 10:19:10

Activity Group: Compliance Monitoring

Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:19:23
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:19:45
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits

Activity Date: 2016-05-19 00:00:00

Activity Status Date: 2016-07-18 10:20:03

Activity Group: Compliance Monitoring

Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits

Activity Date: 2016-05-19 00:00:00

Activity Status Date: 2016-07-18 10:20:17

Activity Group: Compliance Monitoring

Activity Type: Inspection/Evaluation

Activity Status: Active

Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:20:48
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:21:21
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:21:45
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-18 10:22:07
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-07-19 11:26:27
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-05-19 00:00:00
Activity Status Date: 2016-08-01 08:13:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 1997-03-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 1999-09-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2001-09-24 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2003-01-31 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2003-05-28 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code:
Default Air Classification Code:
Air Program:
Activity Date:
Activity Status Date:
Activity Group:
Activity Type:

Activity Type:

OPR
MAJ
Title V Permits
2003-10-18 00:00:00
Not reported
Compliance Monitoring
Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2003-10-24 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2004-01-31 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Direction Distance Elevation

tion Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2004-02-24 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2004-02-25 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2004-06-30 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2005-01-31 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2005-06-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2005-09-09 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2006-03-01 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code:

Programmatic ID: AIR CASJV00006099N2073

09

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2006-05-15 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2006-05-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2006-06-28 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2006-09-08 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2007-04-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2007-04-19 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2007-04-25 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2007-05-15 00:00:00

Direction Distance Elevation

vation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2007-05-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code:
Default Air Classification Code:
Activity Date:
Activity Group:
Activity Type:

OPR
MAJ
Title V Permits
2008-01-25 00:00:00
Not reported
Compliance Monitoring
Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-02-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-05-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR

Direction
Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-07-22 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-09-08 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-09-09 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-10-30 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-01-09 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-05-12 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-06-22 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-06-24 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-07-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-07-23 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: **OPR** Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2009-08-17 00:00:00 Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported

Region Code: 09

AIR CASJV00006099N2073 Programmatic ID:

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Title V Permits Air Program: **Activity Date:** 2009-08-18 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2009-09-04 00:00:00 Activity Status Date: Not reported

Compliance Monitoring Activity Group: Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

AIR CASJV00006099N2073 Programmatic ID:

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2009-09-15 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code:

AIR CASJV00006099N2073 Programmatic ID:

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits **Activity Date:** 2009-09-16 00:00:00

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-12-23 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code:
Default Air Classification Code:
Activity Date:
Activity Group:
Activity Type:

OPR
MAJ
Title V Permits
2010-01-25 00:00:00
Not reported
Compliance Monitoring
Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-03-05 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-05-03 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR

Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-05-25 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-05-26 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-08-23 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-08-24 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-09-08 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-09-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-09-26 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-01-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-01-27 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-02-23 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: **OPR** Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2011-03-01 00:00:00 Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported

Region Code: 09

AIR CASJV00006099N2073 Programmatic ID:

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Title V Permits Air Program: **Activity Date:** 2011-03-14 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2011-03-28 00:00:00 Activity Status Date: Not reported

Compliance Monitoring Activity Group: Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

AIR CASJV00006099N2073 Programmatic ID:

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits Activity Date: 2011-06-08 00:00:00 Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code:

AIR CASJV00006099N2073 Programmatic ID:

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits **Activity Date:** 2011-08-10 00:00:00

Direction Distance Elevation

evation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-12-07 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code:
Default Air Classification Code:
Air Program:
Activity Date:
Activity Status Date:
Activity Group:
Activity Type:
OPR
MAJ
Title V Permits
2011-12-15 00:00:00
Not reported
Compliance Monitoring
Inspection/Evaluation

Region Code: 09

Activity Status:

Programmatic ID: AIR CASJV00006099N2073

Not reported

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-01-25 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-05-02 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR

Direction

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-05-16 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-07-11 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2013-01-22 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2013-03-04 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2013-05-09 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2013-05-14 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2013-11-25 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-01-23 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-02-02 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-05-13 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Distance Elevation Si

tion Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-06-16 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits

Activity Date: 2009-02-18 00:00:00

Activity Status Date: 2009-02-18 00:00:00

Activity Group: Enforcement Action

Activity Type: Administrative - Formal

Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits

Activity Date: 2010-04-19 00:00:00

Activity Status Date: 2010-04-19 00:00:00

Activity Group: Enforcement Action

Activity Type: Administrative - Formal

Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits

Activity Date: 2011-05-05 00:00:00

Activity Status Date: 2011-05-05 00:00:00

Activity Group: Enforcement Action

Activity Type: Administrative - Formal

Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-10-24 00:00:00

Direction Distance Elevation

levation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Activity Status Date: 2012-10-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits

Activity Date: 2007-12-26 00:00:00

Activity Status Date: 2007-12-26 00:00:00

Activity Group: Enforcement Action

Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code:
Default Air Classification Code:
Air Program:
Activity Date:
Activity Status Date:
Activity Group:
Activity Type:

Administrative - Informal

Activity Status: Achieved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-09-21 00:00:00
Activity Status Date: 2010-09-21 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

Region Code: 09

Programmatic ID: AIR CASJV00006099N2073

Facility Registry ID: 110000514676

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-11-02 00:00:00
Activity Status Date: 2011-11-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

Activity Status: Achieved

EMI:

Year: 2000 County Code: 50

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

Air Basin: SJV Facility ID: 2073 Air District Name: SJU SIC Code: 4931

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 3 Reactive Organic Gases Tons/Yr: 2 Carbon Monoxide Emissions Tons/Yr: 27 NOX - Oxides of Nitrogen Tons/Yr: 309 SOX - Oxides of Sulphur Tons/Yr: 29 Particulate Matter Tons/Yr: 21 Part. Matter 10 Micrometers and Smllr Tons/Yr:20

Year: 2001 County Code: 50 SJV Air Basin: Facility ID: 2073 Air District Name: SJU SIC Code: 4931

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: В Total Organic Hydrocarbon Gases Tons/Yr: 0 Reactive Organic Gases Tons/Yr: Λ Carbon Monoxide Emissions Tons/Yr: 26 NOX - Oxides of Nitrogen Tons/Yr: 339 SOX - Oxides of Sulphur Tons/Yr: 31 Particulate Matter Tons/Yr: 19 Part. Matter 10 Micrometers and Smllr Tons/Yr:18

2002 Year: County Code: 50 SJV Air Basin: 2073 Facility ID: Air District Name: SJU SIC Code: 4931

SAN JOAQUIN VALLEY UNIFIED APCD Air District Name:

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 0 Reactive Organic Gases Tons/Yr: 0 Carbon Monoxide Emissions Tons/Yr: 25 NOX - Oxides of Nitrogen Tons/Yr: 337 SOX - Oxides of Sulphur Tons/Yr: 29 Particulate Matter Tons/Yr: 18 Part. Matter 10 Micrometers and Smllr Tons/Yr:17

2003 Year: County Code: 50 Air Basin: SJV Facility ID: 2073 SJU Air District Name: SIC Code: 4931

SAN JOAQUIN VALLEY UNIFIED APCD Air District Name:

Community Health Air Pollution Info System: Not reported

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: 1 Carbon Monoxide Emissions Tons/Yr: 21 NOX - Oxides of Nitrogen Tons/Yr: 340 SOX - Oxides of Sulphur Tons/Yr: 21 Particulate Matter Tons/Yr: 15 Part. Matter 10 Micrometers and Smllr Tons/Yr:15

Year: 2004 County Code: 50 Air Basin: SJV Facility ID: 2073 Air District Name: SJU SIC Code:

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 1.292494675 Reactive Organic Gases Tons/Yr: 0.90344011 Carbon Monoxide Emissions Tons/Yr: 20.63129 NOX - Oxides of Nitrogen Tons/Yr: 339.657465 SOX - Oxides of Sulphur Tons/Yr: 20.622694 Particulate Matter Tons/Yr: 14.8240225 Part. Matter 10 Micrometers and Smllr Tons/Yr:14.56458142

Year. 2005 County Code: 50 Air Basin: SJV Facility ID: 2073 Air District Name: SJU SIC Code:

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 2.691524618656830484 Reactive Organic Gases Tons/Yr: 1.88059049999043345 Carbon Monoxide Emissions Tons/Yr: 14.59683499996960163 NOX - Oxides of Nitrogen Tons/Yr: 330.3239149998602271 SOX - Oxides of Sulphur Tons/Yr: 24.65072099999070168 Particulate Matter Tons/Yr: 10.97135854528030590 Part. Matter 10 Micrometers and Smllr Tons/Yr:10.77934749999001622

2006 Year: County Code: 50 SJV Air Basin: Facility ID: 2073 Air District Name: SJU SIC Code: 4931

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 1.194775407713879133 Reactive Organic Gases Tons/Yr: .834802555011958182 Carbon Monoxide Emissions Tons/Yr: 16.06100000003799796 NOX - Oxides of Nitrogen Tons/Yr: 311.7515250001747161 SOX - Oxides of Sulphur Tons/Yr: 25.29654500001162290

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

OMS OF STANISLAUS (Continued)

1000595770

Particulate Matter Tons/Yr: 25.40205911208678651 Part. Matter 10 Micrometers and Smllr Tons/Yr:24.95751750001247972

2007 County Code: 50 Air Basin: SJV Facility ID: 2073 Air District Name: SJU SIC Code:

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 2.792553704439710763 Reactive Organic Gases Tons/Yr: 1.950930999992825091 Carbon Monoxide Emissions Tons/Yr: 14.29980999997720122 NOX - Oxides of Nitrogen Tons/Yr: 320.4360999998951703 SOX - Oxides of Sulphur Tons/Yr: 19.50176199999302625 Particulate Matter Tons/Yr: 29.76013967535627915 Part. Matter 10 Micrometers and Smllr Tons/Yr:29.23933499999251216

2008 Year: County Code: 50 Air Basin: SJV Facility ID: 2073 Air District Name: SJU SIC Code: 4931

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 1.686086522801196625 Reactive Organic Gases Tons/Yr: 1.178032500011958182 Carbon Monoxide Emissions Tons/Yr: 23.98794000003799796 NOX - Oxides of Nitrogen Tons/Yr: 295.4044400001747161 SOX - Oxides of Sulphur Tons/Yr: 27.60182000001162290 Particulate Matter Tons/Yr: 27.32350949376617582 Part. Matter 10 Micrometers and Smllr Tons/Yr:26.84534250001247972

Year: 2009 County Code: 50 Air Basin: SJV Facility ID: 2073 Air District Name: SJU SIC Code: 4931

SAN JOAQUIN VALLEY UNIFIED APCD Air District Name:

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 1.89185804019807 Reactive Organic Gases Tons/Yr: 1.32173149998923 Carbon Monoxide Emissions Tons/Yr: 26.0982999999658 NOX - Oxides of Nitrogen Tons/Yr: 321.81891999984202 SOX - Oxides of Sulphur Tons/Yr: 29.998467999989501 Particulate Matter Tons/Yr: 29.9877056962405 Part. Matter 10 Micrometers and Smllr Tons/Yr:29.462917499988698

Year: 2010 County Code: 50 Air Basin: SJV

Direction Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Facility ID: 2073
Air District Name: SJU
SIC Code: 4953

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Y

Consolidated Emission Reporting Rule: Not reported

 Total Organic Hydrocarbon Gases Tons/Yr:
 0.68759204427482501

 Reactive Organic Gases Tons/Yr:
 0.48042277500000002

 Carbon Monoxide Emissions Tons/Yr:
 28.001233769999999

 NOX - Oxides of Nitrogen Tons/Yr:
 316.60613160000003

 SOX - Oxides of Sulphur Tons/Yr:
 23.800350179999999

 Particulate Matter Tons/Yr:
 28.102226982459399

 Part. Matter 10 Micrometers and Smllr Tons/Yr:27.610435020000001

 Year:
 2011

 County Code:
 50

 Air Basin:
 SJV

 Facility ID:
 2073

 Air District Name:
 SJU

 SIC Code:
 4953

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 0.22965865356 Reactive Organic Gases Tons/Yr: 0.16052483652 Carbon Monoxide Emissions Tons/Yr: 25.891648534 NOX - Oxides of Nitrogen Tons/Yr: 304.1575507 SOX - Oxides of Sulphur Tons/Yr: 28.97051986 Particulate Matter Tons/Yr: 36.17354888 Part. Matter 10 Micrometers and Smllr Tons/Yr:35.540508183

 Year:
 2012

 County Code:
 50

 Air Basin:
 SJV

 Facility ID:
 2073

 Air District Name:
 SJU

 SIC Code:
 4953

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Not reported Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: 2.4053850891 Reactive Organic Gases Tons/Yr: 1.6804814963 Carbon Monoxide Emissions Tons/Yr: 25.261515068 NOX - Oxides of Nitrogen Tons/Yr: 307.85838576 SOX - Oxides of Sulphur Tons/Yr: 32.350462266 Particulate Matter Tons/Yr: 28.265140577 Part. Matter 10 Micrometers and Smllr Tons/Yr:27.770497271

 Year:
 2013

 County Code:
 50

 Air Basin:
 SJV

 Facility ID:
 2073

 Air District Name:
 SJU

 SIC Code:
 4953

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Distance

Elevation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Total Organic Hydrocarbon Gases Tons/Yr:

Reactive Organic Gases Tons/Yr:

Carbon Monoxide Emissions Tons/Yr:

NOX - Oxides of Nitrogen Tons/Yr:

SOX - Oxides of Sulphur Tons/Yr:

Particulate Matter Tons/Yr:

Part. Matter 10 Micrometers and Smllr Tons/Yr:11.183253281

 Year:
 2014

 County Code:
 50

 Air Basin:
 SJV

 Facility ID:
 2073

 Air District Name:
 SJU

 SIC Code:
 4953

Air District Name: SAN JOAQUIN VALLEY APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported 5.1411268227 Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: 0.86975780157 Carbon Monoxide Emissions Tons/Yr: 22.436938922 NOX - Oxides of Nitrogen Tons/Yr: 314.39073521 SOX - Oxides of Sulphur Tons/Yr: 24.628219085 Particulate Matter Tons/Yr: 13.55513266 Part. Matter 10 Micrometers and Smllr Tons/Yr:13.31791003

 Year:
 2015

 County Code:
 50

 Air Basin:
 SJV

 Facility ID:
 2073

 Air District Name:
 SJU

 SIC Code:
 4953

Air District Name: SAN JOAQUIN VALLEY APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 2.4247705513 Reactive Organic Gases Tons/Yr: 0.410690765 Carbon Monoxide Emissions Tons/Yr: 20.283522736 NOX - Oxides of Nitrogen Tons/Yr: 305.53635 SOX - Oxides of Sulphur Tons/Yr: 19.050006982 Particulate Matter Tons/Yr: 12.58134766 Part. Matter 10 Micrometers and Smllr Tons/Yr:12.361166284

 Year:
 2016

 County Code:
 50

 Air Basin:
 SJV

 Facility ID:
 2073

 Air District Name:
 SJU

 SIC Code:
 4931

Air District Name: SAN JOAQUIN VALLEY APCD

Not reported Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 9.4196695843 Reactive Organic Gases Tons/Yr: 1.606873839 Carbon Monoxide Emissions Tons/Yr: 16.466482706 NOX - Oxides of Nitrogen Tons/Yr: 295.55790604 SOX - Oxides of Sulphur Tons/Yr: 32.75107936 Particulate Matter Tons/Yr: 35.132231759

Map ID MAP FINDINGS
Direction

Distance Elevation

ation Site Database(s) EPA ID Number

OMS OF STANISLAUS (Continued)

1000595770

EDR ID Number

Part. Matter 10 Micrometers and Smllr Tons/Yr:34.516270014

WDS:

Facility ID: 5S 501000286

Facility Type: Solid Waste Site-Class III - Landfills for non hazardous solid wastes.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is

under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7

are assigned by the Regional Board

Subregion:

Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: STANISLAUS CO
Agency Address: 1010 Tenth St. Ste. 3500
Agency City,St,Zip: Modesto 95354

Agency City, St, Zip: Modesto 95354
Agency Contact: George Stillman
Agency Telephone: 2095257568
Agency Type: County
SIC Code: 4953
SIC Code 2: Not reported

Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain

nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid

waste).

Primary Waste: STORMS
Waste Type2: Not reported
Waste2: Stormwater Runoff

Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain

nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid

waste).

Secondary Waste: Not reported Secondary Waste Type: Not reported

Design Flow: 0
Baseline Flow: 0

Reclamation: No reclamation requirements associated with this facility.

POTW: The facility is not a POTW.

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order

should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to

represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as

cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

dairy waste ponds.

Count: 25 records ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEWMAN	S107540736		SOUTH BOUND SIDE OF I-5, SOUTH BOUND VISTA POINT	95360	CDL
NEWMAN	S107540741		SOUTH I-5, SE OF NEWMAN	95360	CDL
NEWMAN	S107540795		SULLIVAN RD, 1/2 MI W OF I-5	95360	CDL
NEWMAN	S107538896		I-5, SOUTH BOUND VISTA POINT @ NEWMAN	95360	CDL
NEWMAN	S107541085		VISTA POINT ON I-5, SOUTH BOUND, 1 MILE SOUTH OF NEWMAN EXIT		CDL
NEWMAN	S117976864		SHOULDER S I-5, 1 MILE SOUTH STUHR RD.		CHMIRS
NEWMAN	1016429571	METROPCS CA, LLC SAC387	I-5 & SHIELDS RD	95360	FINDS
NEWMAN	S119105062	METRO-PCS SC90387M	I-5 & SHIELDS RD	95360	CUPA Listings
NEWMAN	S112893714	PACIFIC GAS & ELECTRIC	NORTHSIDE ORRIS TIMBA RD,3/10 MI W I-5	95360	HAZNET
NEWMAN	S118119146	FRONTIER SOLAR LLC	31001 DAVIS RD	95360	NPDES
PATTERSON	S121634207	DIABLO GRANDE LOT 160	MORTON DAVIS DR	95363	CIWQS
PATTERSON	S121652278	LOT 55	20401 MORTON DAVIS CIR	95363	CIWQS
PATTERSON	S107538292		DIABLO GRANDE RD (7 MI W OF I-5)	95363	CDL
PATTERSON	S107539609		OAK FLAT ROAD, 10 MILES WEST OF I-5	95363	CDL
PATTERSON	S107537630		AT VISTA POINT, NORTH BOUND I-5, 3 MILES SOUTH OF PATTERSON	95363	CDL
PATTERSON	S107527143		11.5 MLES W OF I-5 DEL PUERTO CYN RD		CDL
PATTERSON	S116778634		SB I-5 SPERRY AVE. OFF RAMP	95363	CHMIRS
PATTERSON	S106390952		NB I-5 APPROX 3.45 MI. N OF SPERRY 1/4 N. OF MILE POST MARKER 19		CHMIRS
PATTERSON	S105674950		NB I-5, NORTH OF SPERRY		CHMIRS
PATTERSON	S105672851		SOUTH OF INGRAM CREEK RD , AND I-5		CHMIRS
PATTERSON	1023210137	KLM PIPELINE REPAIR MP108.64	I-5	95363	FINDS
PATTERSON	S121007680	CALTRANS D-10/EA 10-1E1204	I-5 (NB&SB)	95363	HAZNET
PATTERSON	S120989083	WERNER ENTERPRISES	I-5 NB MM 434	95363	HAZNET
PATTERSON	S117698929	DIABLO GRANDE LOTS 88 & 89	MORTON DAVIS DR	95363	NPDES, CIWQS
STANISLAUS COUNTY	S107541084		VISTA POINT (NORTH BOUND I-5)		CDL

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA Telephone: N/A

EPA Region 6

Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 **EPA Region 8**

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Telephone: 415-947-4246

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA Telephone: N/A

Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA Telephone: N/A

Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019

Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017

Number of Days to Update: 92

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 07/06/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Quarterly

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 09/19/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency Telephone: (415) 495-8895

Last EDR Contact: 09/19/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 09/19/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 09/19/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 09/19/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 07/16/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018 Date Data Arrived at EDR: 08/28/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 17

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 08/28/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018 Date Data Arrived at EDR: 08/28/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 17

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 08/28/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/18/2018 Date Data Arrived at EDR: 06/27/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 79

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent NPL

CA RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/30/2018 Date Data Arrived at EDR: 07/31/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 38

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 10/30/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

CA ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/30/2018 Date Data Arrived at EDR: 07/31/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 38

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 10/30/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/08/2018 Date Data Arrived at EDR: 08/10/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320 Last EDR Contact: 08/10/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

CA LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001 Date Data Arrived at EDR: 02/28/2001 Date Made Active in Reports: 03/29/2001

Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)

Telephone: 707-570-3769 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

CA LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004 Date Data Arrived at EDR: 02/26/2004 Date Made Active in Reports: 03/24/2004

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)

Telephone: 760-776-8943 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

CA LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/08/2018

Number of Days to Update: 26

Source: State Water Resources Control Board

Telephone: see region list Last EDR Contact: 09/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Quarterly

CA LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001 Date Data Arrived at EDR: 04/23/2001 Date Made Active in Reports: 05/21/2001

Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-637-5595 Last EDR Contact: 09/26/2011

Next Scheduled EDR Contact: 01/09/2012 Data Release Frequency: No Update Planned

CA LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005 Date Data Arrived at EDR: 06/07/2005 Date Made Active in Reports: 06/29/2005

Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)

Telephone: 760-241-7365 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

CA LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003 Date Data Arrived at EDR: 09/10/2003 Date Made Active in Reports: 10/07/2003

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)

Telephone: 530-542-5572 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

CA LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 07/22/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: No Update Planned

CA LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

CA LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: No Update Planned

CA LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6710 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

CA LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005 Date Data Arrived at EDR: 02/15/2005 Date Made Active in Reports: 03/28/2005

Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-4496 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

CA CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018

Data Release Frequency: Varies

CA SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003 Date Data Arrived at EDR: 04/07/2003

Date Made Active in Reports: 04/25/2003

Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)

Telephone: 707-576-2220 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

CA SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-286-0457 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

CA SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006 Date Data Arrived at EDR: 05/18/2006 Date Made Active in Reports: 06/15/2006

Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-549-3147 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: Semi-Annually

CA SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004 Date Data Arrived at EDR: 11/18/2004 Date Made Active in Reports: 01/04/2005

Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6600 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: Varies

CA SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005 Date Data Arrived at EDR: 04/05/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-3291 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually

CA SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005 Date Data Arrived at EDR: 05/25/2005 Date Made Active in Reports: 06/16/2005

Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch

Telephone: 619-241-6583 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Semi-Annually

CA SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region

Telephone: 530-542-5574 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

CA SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004 Date Data Arrived at EDR: 11/29/2004 Date Made Active in Reports: 01/04/2005

Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region

Telephone: 760-346-7491 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

CA SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/03/2008 Date Made Active in Reports: 04/14/2008

Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)

Telephone: 951-782-3298 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually

CA SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007 Date Data Arrived at EDR: 09/11/2007 Date Made Active in Reports: 09/28/2007

Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-467-2980 Last EDR Contact: 08/08/2011

Next Scheduled EDR Contact: 11/21/2011 Data Release Frequency: Annually

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017 Date Data Arrived at EDR: 05/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 136

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 10/10/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Varies

State and tribal registered storage tank lists

CA UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/03/2018

Number of Days to Update: 21

Source: SWRCB Telephone: 916-341-5851 Last EDR Contact: 09/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Semi-Annually

CA UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/03/2018

Number of Days to Update: 21

Source: State Water Resources Control Board

Telephone: 916-327-7844 Last EDR Contact: 09/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

CA MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

CA AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016 Date Data Arrived at EDR: 07/12/2016 Date Made Active in Reports: 09/19/2016

Number of Days to Update: 69

Source: California Environmental Protection Agency

Telephone: 916-327-5092 Last EDR Contact: 09/17/2018

Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016 Date Data Arrived at EDR: 03/02/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 36

Source: N/A Telephone: N/A

Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

CA VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/30/2018 Date Data Arrived at EDR: 07/31/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 38

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 10/30/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

State and tribal Brownfields sites

CA BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 10/15/2018

Number of Days to Update: 20

Source: State Water Resources Control Board

Telephone: 916-323-7905 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/18/2018 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 09/18/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000 Date Data Arrived at EDR: 04/10/2000 Date Made Active in Reports: 05/10/2000

Number of Days to Update: 30

Source: State Water Resources Control Board

Telephone: 916-227-4448 Last EDR Contact: 10/25/2018

Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: No Update Planned

CA SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/15/2018

Number of Days to Update: 33

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 09/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Quarterly

CA HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018 Date Data Arrived at EDR: 09/28/2018 Date Made Active in Reports: 11/01/2018

Number of Days to Update: 34

Source: Integrated Waste Management Board

Telephone: 916-341-6422 Last EDR Contact: 08/07/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 10/25/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 11/02/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2018 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 86

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 08/28/2018

Next Scheduled EDR Contact: 12/10/2018

Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

CA HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005 Date Data Arrived at EDR: 08/03/2006 Date Made Active in Reports: 08/24/2006

Number of Days to Update: 21

Source: Department of Toxic Substance Control

Telephone: 916-323-3400 Last EDR Contact: 02/23/2009

Next Scheduled EDR Contact: 05/25/2009 Data Release Frequency: No Update Planned

CA SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/30/2018 Date Data Arrived at EDR: 07/31/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 38

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 10/30/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Quarterly

CA CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 06/12/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 55

Source: Department of Toxic Substances Control

Telephone: 916-255-6504 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

CA TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995 Date Data Arrived at EDR: 08/30/1995 Date Made Active in Reports: 09/26/1995

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 916-227-4364 Last EDR Contact: 01/26/2009

Next Scheduled EDR Contact: 04/27/2009 Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2018 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 86

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 08/28/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Quarterly

CA CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/23/2018 Date Data Arrived at EDR: 07/25/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 42

Source: CalEPA Telephone: 916-323-2514 Last EDR Contact: 10/23/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

CA SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994 Date Data Arrived at EDR: 07/07/2005 Date Made Active in Reports: 08/11/2005

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: N/A

Last EDR Contact: 06/03/2005 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

CA UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/28/2018 Date Data Arrived at EDR: 05/25/2018 Date Made Active in Reports: 07/10/2018

Number of Days to Update: 46

Source: Department of Public Health Telephone: 707-463-4466

Last EDR Contact: 10/09/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Annually

CA HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990 Date Data Arrived at EDR: 01/25/1991 Date Made Active in Reports: 02/12/1991

Number of Days to Update: 18

Source: State Water Resources Control Board

Telephone: 916-341-5851 Last EDR Contact: 07/26/2001 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

CA SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/11/2018

Number of Days to Update: 29

Source: San Francisco County Department of Public Health

Telephone: 415-252-3896 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994 Date Data Arrived at EDR: 09/05/1995 Date Made Active in Reports: 09/29/1995

Number of Days to Update: 24

Source: California Environmental Protection Agency

Telephone: 916-341-5851 Last EDR Contact: 12/28/1998 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

CA CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/23/2018 Date Data Arrived at EDR: 07/25/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 42

Source: California Environmental Protection Agency

Telephone: 916-323-2514 Last EDR Contact: 10/23/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Quarterly

Local Land Records

CA LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/29/2018 Date Data Arrived at EDR: 08/30/2018 Date Made Active in Reports: 10/01/2018

Number of Days to Update: 32

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/17/2018

Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 57

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Semi-Annually

CA DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/04/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 10/02/2018

Number of Days to Update: 27

Source: DTSC and SWRCB Telephone: 916-323-3400 Last EDR Contact: 09/05/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Semi-Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 73

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

Records of Emergency Release Reports

CA CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 06/14/2018

Number of Days to Update: 51

Source: Office of Emergency Services

Telephone: 916-845-8400 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Semi-Annually

CA LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/08/2018

Number of Days to Update: 26

Source: State Water Qualilty Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

CA MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

CA SPILLS 90: SPILLS 90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 09/19/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 10/12/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/12/2018

Next Scheduled EDR Contact: 01/21/2019

Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 10/05/2018

Number of Days to Update: 100

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" 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. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 11/05/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 08/10/2018

Next Scheduled EDR Contact: 11/19/2018

Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018

Number of Days to Update: 198

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 09/21/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 2

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA Telephone: 202-564-4203

Last EDR Contact: 10/24/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 57

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/22/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 44

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 10/23/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017 Date Data Arrived at EDR: 06/09/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 126

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 10/11/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 10/09/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA,

TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the

Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency,

EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016 Date Data Arrived at EDR: 09/08/2016 Date Made Active in Reports: 10/21/2016

Number of Days to Update: 43

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 10/11/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 09/07/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 09/04/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019

Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/02/2018 Date Data Arrived at EDR: 07/05/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 92

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 10/03/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008

Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 10/30/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2018 Date Data Arrived at EDR: 07/17/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 80

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 10/01/2018

Next Scheduled EDR Contact: 12/31/2018

Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017

Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 10/09/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 3

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 23

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 08/20/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 57

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 57

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem

Date of Government Version: 10/27/2009 Date Data Arrived at EDR: 11/10/2009 Date Made Active in Reports: 12/08/2009

Number of Days to Update: 28

Source: N/A Telephone: N/A

Last EDR Contact: 11/12/1996 Next Scheduled EDR Contact: N/A Data Release Frequency: Annually

US AIRS MINOR: Aerometric Information Retrieval System Facility Subsystem

Date of Government Version: 10/27/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Penerts: 12/08/2009

Date Made Active in Reports: 12/08/2009

Number of Days to Update: 28

Source: N/A Telephone: N/A

Last EDR Contact: 11/12/1996 Next Scheduled EDR Contact: N/A Data Release Frequency: Annually

US MINES: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011

Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 08/31/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

US MINES 2: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 08/31/2018

Next Scheduled EDR Contact: 12/10/2018

Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 08/31/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 3

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 09/10/2018

Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/07/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 30

Source: EPA Telephone: (415) 947-8000

Last EDR Contact: 09/18/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 08/31/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 06/19/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 87

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 9

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 09/05/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018 Date Data Arrived at EDR: 08/22/2018

Date Made Active in Reports: 10/05/2018

Number of Days to Update: 44

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 08/22/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Quarterly

Other Ascertainable Records

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989 Date Data Arrived at EDR: 07/27/1994 Date Made Active in Reports: 08/02/1994

Number of Days to Update: 6

Source: Department of Health Services

Telephone: 916-255-2118 Last EDR Contact: 05/31/1994 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

CA CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 10/16/2018

Number of Days to Update: 21

Source: CAL EPA/Office of Emergency Information

Telephone: 916-323-3400 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

CA CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018 Date Data Arrived at EDR: 08/30/2018 Date Made Active in Reports: 11/01/2018

Number of Days to Update: 63

Source: Livermore-Pleasanton Fire Department

Telephone: 925-454-2361 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

CA CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 09/19/2018

Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health

Telephone: 415-252-3896 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Varies

CA DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/30/2018 Date Data Arrived at EDR: 09/27/2018 Date Made Active in Reports: 11/01/2018

Number of Days to Update: 35

Source: Department of Toxic Substance Control

Telephone: 916-327-4498 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Annually

CA DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 06/25/2018 Date Data Arrived at EDR: 06/28/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 39

Source: Antelope Valley Air Quality Management District

Telephone: 661-723-8070 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Varies

CA DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018 Date Data Arrived at EDR: 10/05/2018 Date Made Active in Reports: 11/01/2018

Number of Days to Update: 27

Source: South Coast Air Quality Management District

Telephone: 909-396-3211 Last EDR Contact: 10/05/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

CA EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 47

Source: California Air Resources Board

Telephone: 916-322-2990 Last EDR Contact: 09/21/2018

Next Scheduled EDR Contact: 12/31/2018

Data Release Frequency: Varies

CA ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/02/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 36

Source: State Water Resoruces Control Board

Telephone: 916-445-9379 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

CA Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 07/24/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 48

Source: Department of Toxic Substances Control

Telephone: 916-255-3628 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

CA Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2018 Date Data Arrived at EDR: 08/16/2018 Date Made Active in Reports: 09/10/2018 Number of Days to Update: 25 Source: California Integrated Waste Management Board

Telephone: 916-341-6066 Last EDR Contact: 08/07/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

CA HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 07/12/2017 Date Made Active in Reports: 10/17/2017

Number of Days to Update: 97

Source: California Environmental Protection Agency

Telephone: 916-255-1136 Last EDR Contact: 10/10/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Annually

CA ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/20/2018 Date Data Arrived at EDR: 08/21/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 20

Source: Department of Toxic Subsances Control

Telephone: 877-786-9427 Last EDR Contact: 08/21/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Quarterly

CA HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001 Date Data Arrived at EDR: 01/22/2009 Date Made Active in Reports: 04/08/2009

Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 01/22/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

CA HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/20/2018 Date Data Arrived at EDR: 08/21/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 20

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 08/21/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Quarterly

CA HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/09/2018 Date Data Arrived at EDR: 07/11/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 44

Source: Department of Toxic Substances Control

Telephone: 916-440-7145 Last EDR Contact: 10/10/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Quarterly

CA MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: Department of Conservation Telephone: 916-322-1080

Last EDR Contact: 09/12/2018 Next Scheduled EDR Contact: 12/24/2018

Data Release Frequency: Quarterly

CA MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/28/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 10/03/2018

Number of Days to Update: 28

Source: Department of Public Health Telephone: 916-558-1784 Last EDR Contact: 09/05/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Varies

CA NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/09/2018 Date Data Arrived at EDR: 08/10/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 31

Source: State Water Resources Control Board

Telephone: 916-445-9379 Last EDR Contact: 08/10/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Quarterly

CA PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/04/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 10/03/2018

Number of Days to Update: 28

Source: Department of Pesticide Regulation

Telephone: 916-445-4038 Last EDR Contact: 09/05/2018

Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

CA PROC: Certified Processors Database A listing of certified processors.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/15/2018

Number of Days to Update: 33

Source: Department of Conservation Telephone: 916-323-3836

Last EDR Contact: 09/12/2018

Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

CA NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018 Date Data Arrived at EDR: 09/20/2018 Date Made Active in Reports: 10/19/2018

Number of Days to Update: 29

Source: State Water Resources Control Board

Telephone: 916-445-3846 Last EDR Contact: 09/17/2018

Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

CA UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 34

Source: Deaprtment of Conservation Telephone: 916-445-2408 Last EDR Contact: 09/13/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

CA WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 07/11/2018 Date Made Active in Reports: 09/13/2018

Number of Days to Update: 64

Source: RWQCB, Central Valley Region

Telephone: 559-445-5577 Last EDR Contact: 10/12/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Varies

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007 Date Data Arrived at EDR: 06/20/2007 Date Made Active in Reports: 06/29/2007

Number of Days to Update: 9

Source: State Water Resources Control Board

Telephone: 916-341-5227 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Quarterly

CA WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009 Date Data Arrived at EDR: 07/21/2009 Date Made Active in Reports: 08/03/2009

Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019

Data Release Frequency: Varies

CA CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/23/2018 Date Data Arrived at EDR: 07/25/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 42

Source: California Environmental Protection Agency

Telephone: 916-323-2514 Last EDR Contact: 10/23/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

CA NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

CA UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resource Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018

Data Release Frequency: Varies

CA SAMPLING POINT: Sampling Point? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

CA OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018

Data Release Frequency: Varies

CA CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/04/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 10/02/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-794-4977 Last EDR Contact: 09/05/2018

Next Scheduled EDR Contact: 12/17/2018

Data Release Frequency: Varies

CA WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 916-341-5810 Last EDR Contact: 09/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Quarterly

CA WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

CA PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

CA PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

CA MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/09/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 12/24/2018

Data Release Frequency: Varies

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Undeter N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/13/2014 Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

CA RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/30/2013 Number of Days to Update: 182

Source: State Water Resources Control Board Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/05/2018 Date Data Arrived at EDR: 10/10/2018 Date Made Active in Reports: 11/01/2018

Source: Alameda County Environmental Health Services

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 10/05/2018

Next Scheduled EDR Contact: 01/21/2019 Number of Days to Update: 22 Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/05/2018 Date Data Arrived at EDR: 10/10/2018 Date Made Active in Reports: 11/02/2018

Number of Days to Update: 23

Telephone: 510-567-6700

Last EDR Contact: 10/05/2018

Next Scheduled EDR Contact: 04/24/2047 Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 07/01/2018 Date Data Arrived at EDR: 07/24/2018 Date Made Active in Reports: 08/20/2018

Number of Days to Update: 27

Source: Amador County Environmental Health

Telephone: 209-223-6439 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/17/2018

Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017 Date Data Arrived at EDR: 04/25/2017 Date Made Active in Reports: 08/09/2017

Number of Days to Update: 106

Source: Public Health Department Telephone: 530-538-7149 Last EDR Contact: 10/05/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 08/02/2018 Date Data Arrived at EDR: 08/06/2018 Date Made Active in Reports: 08/20/2018

Number of Days to Update: 14

Source: Calveras County Environmental Health

Telephone: 209-754-6399 Last EDR Contact: 09/24/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 05/23/2018 Date Data Arrived at EDR: 05/24/2018 Date Made Active in Reports: 07/13/2018

Number of Days to Update: 50

Source: Health & Human Services Telephone: 530-458-0396 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2018 Date Data Arrived at EDR: 08/21/2018 Date Made Active in Reports: 09/11/2018

Number of Days to Update: 21

Source: Contra Costa Health Services Department

Telephone: 925-646-2286 Last EDR Contact: 10/29/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List

Cupa Facility list

Date of Government Version: 04/27/2018 Date Data Arrived at EDR: 05/02/2018 Date Made Active in Reports: 06/15/2018

Number of Days to Update: 44

Source: Del Norte County Environmental Health Division

Telephone: 707-465-0426 Last EDR Contact: 10/25/2018

Next Scheduled EDR Contact: 02/11/2019

Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 09/04/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 09/18/2018

Number of Days to Update: 13

Source: El Dorado County Environmental Management Department

Telephone: 530-621-6623 Last EDR Contact: 07/30/2018

Next Scheduled EDR Contact: 11/12/2018

Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2018 Date Data Arrived at EDR: 07/17/2018 Date Made Active in Reports: 08/30/2018

Number of Days to Update: 44

Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 01/22/2018 Date Data Arrived at EDR: 01/24/2018 Date Made Active in Reports: 03/14/2018

Number of Days to Update: 49

Source: Glenn County Air Pollution Control District

Telephone: 830-934-6500 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 07/11/2018 Date Data Arrived at EDR: 07/13/2018 Date Made Active in Reports: 08/22/2018

Number of Days to Update: 40

Source: Humboldt County Environmental Health

Telephone: N/A

Last EDR Contact: 08/20/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 07/24/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 43

Source: San Diego Border Field Office

Telephone: 760-339-2777 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List Cupa facility list.

> Date of Government Version: 04/02/2018 Date Data Arrived at EDR: 04/03/2018 Date Made Active in Reports: 06/14/2018

Number of Days to Update: 72

Source: Inyo County Environmental Health Services

Telephone: 760-878-0238 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 12/03/2018

Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

> Date of Government Version: 07/20/2018 Date Data Arrived at EDR: 07/25/2018 Date Made Active in Reports: 09/12/2018

Number of Days to Update: 49

Source: Kern County Environment Health Services Department

Telephone: 661-862-8700 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/23/2018 Date Data Arrived at EDR: 08/24/2018 Date Made Active in Reports: 09/18/2018

Number of Days to Update: 25

Source: Kings County Department of Public Health

Telephone: 559-584-1411 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 12/03/2018

Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 08/08/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 08/22/2018

Number of Days to Update: 13

Source: Lake County Environmental Health

Telephone: 707-263-1164 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 07/27/2018 Date Data Arrived at EDR: 08/06/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 30

Source: Lassen County Environmental Health

Telephone: 530-251-8528 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009 Date Data Arrived at EDR: 03/31/2009 Date Made Active in Reports: 10/23/2009

Number of Days to Update: 206

Source: EPA Region 9 Telephone: 415-972-3178 Last EDR Contact: 09/17/2018

Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/02/2018 Date Data Arrived at EDR: 07/13/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 59

Source: Department of Public Works Telephone: 626-458-3517

Last EDR Contact: 10/05/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/16/2018 Date Data Arrived at EDR: 07/18/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 37

Source: La County Department of Public Works

Telephone: 818-458-5185 Last EDR Contact: 10/16/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018 Date Data Arrived at EDR: 05/01/2018 Date Made Active in Reports: 05/14/2018

Number of Days to Update: 13

Source: Engineering & Construction Division

Telephone: 213-473-7869 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 04/17/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 63

Source: Community Health Services Telephone: 323-890-7806 Last EDR Contact: 10/16/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017 Date Data Arrived at EDR: 04/19/2017 Date Made Active in Reports: 05/10/2017

Number of Days to Update: 21

Source: City of El Segundo Fire Department

Telephone: 310-524-2236 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017 Date Data Arrived at EDR: 03/10/2017 Date Made Active in Reports: 05/03/2017

Number of Days to Update: 54

Source: City of Long Beach Fire Department

Telephone: 562-570-2563 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018 Date Data Arrived at EDR: 10/05/2018 Date Made Active in Reports: 11/02/2018

Number of Days to Update: 28

Source: City of Torrance Fire Department

Telephone: 310-618-2973 Last EDR Contact: 10/05/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/30/2018 Date Data Arrived at EDR: 09/04/2018 Date Made Active in Reports: 09/19/2018

Number of Days to Update: 15

Source: Madera County Environmental Health

Telephone: 559-675-7823 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 12/03/2018

Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 11/02/2018

Number of Days to Update: 29

Source: Public Works Department Waste Management

Telephone: 415-473-6647 Last EDR Contact: 10/01/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List CUPA facility list.

> Date of Government Version: 08/29/2018 Date Data Arrived at EDR: 08/31/2018 Date Made Active in Reports: 09/19/2018

Number of Days to Update: 19

Source: Merced County Environmental Health

Telephone: 209-381-1094 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/03/2018

Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 07/18/2018 Date Data Arrived at EDR: 09/04/2018 Date Made Active in Reports: 09/19/2018

Number of Days to Update: 15

Source: Mono County Health Department

Telephone: 760-932-5580 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/30/2018 Date Data Arrived at EDR: 08/02/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 34

Source: Monterey County Health Department

Telephone: 831-796-1297 Last EDR Contact: 10/01/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017 Date Data Arrived at EDR: 01/11/2017 Date Made Active in Reports: 03/02/2017

Number of Days to Update: 50

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/10/2018

Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 08/27/2018 Date Data Arrived at EDR: 08/28/2018 Date Made Active in Reports: 10/03/2018

Number of Days to Update: 36

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 07/31/2018 Date Data Arrived at EDR: 08/02/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 34

Source: Community Development Agency

Telephone: 530-265-1467 Last EDR Contact: 10/25/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 07/13/2018 Date Data Arrived at EDR: 08/08/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 33

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 11/05/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/13/2018 Date Data Arrived at EDR: 08/08/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 33

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 11/05/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/13/2018 Date Data Arrived at EDR: 08/06/2018 Date Made Active in Reports: 09/12/2018

Number of Days to Update: 37

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 08/06/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/04/2018 Date Data Arrived at EDR: 09/06/2018 Date Made Active in Reports: 10/03/2018

Number of Days to Update: 27

Source: Placer County Health and Human Services

Telephone: 530-745-2363 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018 Date Data Arrived at EDR: 07/25/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 42

Source: Plumas County Environmental Health

Telephone: 530-283-6355 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2018 Date Data Arrived at EDR: 10/12/2018 Date Made Active in Reports: 10/16/2018

Number of Days to Update: 4

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 09/17/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2018 Date Data Arrived at EDR: 10/12/2018 Date Made Active in Reports: 11/05/2018

Number of Days to Update: 24

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 09/17/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2018 Date Data Arrived at EDR: 10/02/2018 Date Made Active in Reports: 11/01/2018

Number of Days to Update: 30

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 10/02/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/23/2018 Date Data Arrived at EDR: 10/02/2018 Date Made Active in Reports: 11/02/2018

Number of Days to Update: 31

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 10/02/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 08/07/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 27

Source: San Benito County Environmental Health

Telephone: N/A

Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 07/27/2018 Date Data Arrived at EDR: 07/31/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041 Last EDR Contact: 11/05/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/04/2018 Date Data Arrived at EDR: 06/06/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 41

Source: Hazardous Materials Management Division

Telephone: 619-338-2268 Last EDR Contact: 09/06/2018

Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 56

Source: Department of Health Services

Telephone: 619-338-2209 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 07/24/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 31

Source: Department of Environmental Health

Telephone: 858-505-6874 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010 Date Data Arrived at EDR: 06/15/2010 Date Made Active in Reports: 07/09/2010

Number of Days to Update: 24

Source: San Diego County Department of Environmental Health

Telephone: 619-338-2371 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/17/2018

Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008 Date Data Arrived at EDR: 09/19/2008 Date Made Active in Reports: 09/29/2008

Number of Days to Update: 10

Source: Department Of Public Health San Francisco County

Telephone: 415-252-3920 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/17/2018 Date Data Arrived at EDR: 09/18/2018 Date Made Active in Reports: 10/03/2018

Number of Days to Update: 15

Source: Department of Public Health Telephone: 415-252-3920 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018 Date Data Arrived at EDR: 06/26/2018 Date Made Active in Reports: 07/11/2018

Number of Days to Update: 15

Telephone: N/A Last EDR Contact: 09/17/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Semi-Annually

Source: Environmental Health Department

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/20/2018 Date Data Arrived at EDR: 08/21/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 17

Source: San Luis Obispo County Public Health Department

Telephone: 805-781-5596 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/18/2018 Date Data Arrived at EDR: 09/20/2018 Date Made Active in Reports: 11/01/2018

Number of Days to Update: 42

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 09/10/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/18/2018 Date Data Arrived at EDR: 09/20/2018 Date Made Active in Reports: 10/17/2018

Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 09/10/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011 Date Data Arrived at EDR: 09/09/2011 Date Made Active in Reports: 10/07/2011

Number of Days to Update: 28

Source: Santa Barbara County Public Health Department

Telephone: 805-686-8167 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 12/03/2018

Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List

Cupa facility list

Date of Government Version: 08/17/2018 Date Data Arrived at EDR: 08/22/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 16

Source: Department of Environmental Health

Telephone: 408-918-1973 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005 Date Data Arrived at EDR: 03/30/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 22

Source: Santa Clara Valley Water District

Telephone: 408-265-2600 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014 Date Data Arrived at EDR: 03/05/2014 Date Made Active in Reports: 03/18/2014

Number of Days to Update: 13

Source: Department of Environmental Health

Telephone: 408-918-3417 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/06/2018 Date Made Active in Reports: 09/11/2018

Number of Days to Update: 36

Source: City of San Jose Fire Department

Telephone: 408-535-7694 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 05/23/2017

Number of Days to Update: 90

Source: Santa Cruz County Environmental Health

Telephone: 831-464-2761 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/15/2017 Date Data Arrived at EDR: 06/19/2017 Date Made Active in Reports: 08/09/2017

Number of Days to Update: 51

Source: Shasta County Department of Resource Management

Telephone: 530-225-5789 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 08/29/2018 Date Data Arrived at EDR: 09/04/2018 Date Made Active in Reports: 10/17/2018

Number of Days to Update: 43

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 08/29/2018 Date Data Arrived at EDR: 09/04/2018 Date Made Active in Reports: 10/18/2018

Number of Days to Update: 44

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List

Cupa Facility list

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 10/16/2018

Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department

Telephone: 707-565-1174 Last EDR Contact: 09/24/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/02/2018 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 10/25/2018

Number of Days to Update: 21

Source: Department of Health Services

Telephone: 707-565-6565 Last EDR Contact: 09/24/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 08/14/2018 Date Data Arrived at EDR: 08/16/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 8

Source: Stanislaus County Department of Ennvironmental Protection

Telephone: 209-525-6751 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 09/18/2018 Date Data Arrived at EDR: 09/20/2018 Date Made Active in Reports: 10/25/2018

Number of Days to Update: 35

Source: Sutter County Department of Agriculture

Telephone: 530-822-7500 Last EDR Contact: 09/17/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/02/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 36

Source: Tehama County Department of Environmental Health

Telephone: 530-527-8020 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 07/24/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 45

Source: Department of Toxic Substances Control

Telephone: 760-352-0381 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019

Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List

Cupa program facilities

Date of Government Version: 09/13/2018 Date Data Arrived at EDR: 09/14/2018 Date Made Active in Reports: 09/19/2018

Number of Days to Update: 5

Source: Tulare County Environmental Health Services Division

Telephone: 559-624-7400 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019

Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 04/23/2018 Date Data Arrived at EDR: 04/25/2018 Date Made Active in Reports: 06/25/2018

Number of Days to Update: 61

Source: Divison of Environmental Health

Telephone: 209-533-5633 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/02/2018 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 09/05/2018

Number of Days to Update: 41

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012

Number of Days to Update: 49

Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 10/01/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 37

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 08/07/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/02/2018 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 29

Source: Ventura County Resource Management Agency

Telephone: 805-654-2813 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 09/04/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 10/04/2018

Number of Days to Update: 22

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 09/12/2018

Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 10/15/2018 Date Data Arrived at EDR: 10/19/2018 Date Made Active in Reports: 11/05/2018

Number of Days to Update: 17

Source: Yolo County Department of Health

Telephone: 530-666-8646 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 05/10/2018 Date Data Arrived at EDR: 05/15/2018 Date Made Active in Reports: 06/15/2018

Number of Days to Update: 31

Source: Yuba County Environmental Health Department

Telephone: 530-749-7523 Last EDR Contact: 10/25/2018

Next Scheduled EDR Contact: 02/11/2019

Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory Source: Department of Fish & Game Telephone: 916-445-0411

STREET AND ADDRESS INFORMATION

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Appendix H

Water Supply Assessment

Water Supply Assessment for the Paulsell Solar Energy Center

Prepared for:

Crow Creek Solar, LLC

Prepared by:

DUDEK

1630 San Pablo Avenue, Suite 300 Oakland, California 94612 Contact: Trey Driscoll, PG No. 8511, CHG No. 936 Kipp Vilker, PE No. 90011

APRIL 2021

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ATTACHMENT

A Groundwater Resources Impact Analsyis

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Acronyms and Abbreviations

Acronym or Abbreviation	Definition
μg/L	micrograms per liter
μmhos/cm	micromhos per centimeter
AF	acre-feet
AFY	acre-feet per year
APN	Assessor's Parcel Number
AWMP	agricultural water management plan
bgs	below ground surface
CEQA	California Environmental Quality Act
County	Stanislaus County
Crow Creek Solar	Crow Creek Solar, LLC
CUP	Conditional Use Permit
CVP	Central Valley Project
CWC	California Water Code
DPWD	Del Puerto Water District
DWR	California Department of Water Resources
EDR	Environmental Data Resources
ESA	Environmental Site Assessment
EWMPs	Efficient Water Management Practices
GPM	gallons per minute
GSP	groundwater sustainability plan
I-5	Interstate 5
ILRP	Irrigated Lands Regulatory Program
MCL	maximum contaminant level
MCL-CA	California drinking water maximum concentration
MCL-US	federal drinking water maximum concentration
mg/L	milligrams per liter
MND	Mitigated Negative Declaration
MW	megawatt
OFWD	Oak Flat Water District
O&M	operation and maintenance
Paulsell Project	Paulsell Solar Energy Center
PWS	public water system
SB	Senate Bill
SB X7-7	Water Conservation Act of 2009
SCADA	Supervisory Control and Data Acquisition
SDWA	Safe Drinking Water Act
SGMA	Sustainable Groundwater Management Act
SMCL	secondary maximum contaminant level
Subbasin	Delta-Mendota Subbasin
SWP	State Water Project
TDS	total dissolved solids
Westside Coalition	Westside San Joaquin River Watershed Coalition
WSA	Water Supply Assessment



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1 Introduction

1.1 Purpose of Document

Senate Bill ("SB") 610 was passed on January 1, 2002, amending the California Water Code ("CWC") to require detailed analysis of water supply availability for certain types of development projects. The primary purpose of SB 610 is to improve the linkage between water and land use planning by ensuring greater communication between water providers and local planning agencies, and ensuring that land use decisions for certain large development projects are fully informed as to whether sufficient water supplies are available to meet project demands. SB 610 requires the preparation of a water supply assessment ("WSA") for a project that is subject to California Environmental Quality Act ("CEQA") and meets certain requirements. SB 610 is codified in CWC Division 6, Part 2.10 (Sections 10910–10915).

The Paulsell Solar Energy Center ("Paulsell Project") has been determined to be subject to CEQA by Stanislaus County ("County"), acting as lead agency. The Paulsell Project satisfies the statutory definition of a "project" for the purpose of determining SB 610 applicability because it is considered an industrial facility in excess of 40 acres in size, per CWC Section 10912(a)(5). Furthermore, because the Paulsell Project is not within the service area of a public water system ("PWS"), as defined in CWC Section 10912(c)¹, Stanislaus County as CEQA lead agency is responsible for the preparation of this WSA, which will be included in the CEQA documentation for consideration. In compliance with SB 610, this report examines the availability of the identified water supply under normal-year, single-dry-year, and multiple-dry-year conditions over a 20-year projection, accounting for the projected water demand of the Paulsell Project in addition to other existing and planned future uses of the identified water supply.

1.2 Project Description and Location

Crow Creek Solar, LLC ("Crow Creek Solar") proposes to amend the existing conditional use permit ("CUP") for the Scatec Westside Solar Ranch ("Approved Project"), approved by Stanislaus County ("County") in November 2010 and supported by an adopted mitigated negative declaration ("MND") through a County Staff Approval Permit. The proposed Paulsell Project is designed to generate up to 20 megawatts of electricity on 232 acres and would require support facilities consisting of access roads, fencing, medium-voltage stations, a project collector substation, a battery energy storage system ("BESS"), an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, operations and maintenance ("O&M") building, supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment.

The Paulsell Project would be located on a site covered by an existing MND titled Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration ("2010 MND"). The CUP for the Approved Project (No. 2010-09) allows for the construction, operation, and decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre site, which was part of the original Scatec Westside Solar

CWC Section 10912(c) defines a public water system (PWS) as a system for the provision of piped water to the public for human consumption that has 3,000 or more service connections whereas a PWS as defined by the Safe Drinking Water Act means a system for the provision to the public of water for human consumption through pipes or other constructed conveyances, if such system has at least fifteen service connections or regularly serves at least twenty-five individuals. This report uses the definition as defined in CWC Section 10912(c).

Ranch CUP ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project Site would be located within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND.

The Paulsell Project includes a solar energy facility similar to the Approved Project. The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres, as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed. This increase will be contained entirely within the area previously analyzed and approved for the Original Project Site in the 2010 MND. The Paulsell Project also proposes the potential development of additional support facilities, as described above. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the CUP and 2010 MND.

The Paulsell Project Site is located west of Interstate 5, approximately 8 miles south of the City of Patterson, approximately 1 mile south of the Fink Road Landfill, and approximately 7 miles northwest of the City of Newman, in Stanislaus County, California. Portions of the Paulsell Project Site are currently developed as almond orchards and walnut orchards. Other portions of the Paulsell Project Site include cow pasture, horse pasture, and undeveloped land. The Paulsell Project Site is bordered by the Scatec Westside Solar Ranch - Phase I project to the southwest, which is currently in operation. The Paulsell Project Site is also bordered by the Fink Road Landfill and Covanta Waste-To-Energy Facility, Beltran Farms orchards, and cropland to the north; Interstate 5 to the east; and undeveloped land to the northwest, west, and south.

1.3 Water Supply Assessment Applicability

Because the Paulsell Project is a "project" per CWC Section 10912(a)(5), it is subject to SB 610 and therefore requires the preparation of a WSA. The CWC, as amended by SB 610, requires that a WSA must address the following questions:

- Is there a public water system that will service the Paulsell Project?
- Is there a current Urban Water Management Plan that accounts for the Paulsell Project demand?
- Is groundwater a component of the supplies for the Paulsell Project?
- Are there sufficient supplies to serve the Paulsell Project over the next 20 years?

The primary question to be answered in a WSA is:

Will the total projected water supply available during normal, single-dry, and multiple-dry water years during a 20-year projection meet the projected water demand of the proposed project, in addition to existing and planned future uses of the identified water supplies, including agricultural and manufacturing uses?

The following sections address the SB 610 WSA questions as they relate to the Paulsell Project.

1.3.1 Is there a public water system that will service the Paulsell Project?

The Safe Drinking Water Act ("SDWA") Section 1401 defines a PWS as an entity that provides water for human consumption through pipes or other constructed conveyances and has at least 15 service connections or regularly serves at least 25 people per day. CWC Section 10912 defines a PWS as a system that has 3,000 or more service connections and provides piped water to the public for human consumption. The Paulsell Project site is not connected to a PWS as defined by CWC Section 10912.

The Paulsell Project Site is currently within the Oak Flat Water District ("OFWD"), which has a contract with the California State Department of Water Resources ("DWR") to purchase water from the California Aqueduct. Water used for agriculture at the Paulsell Project Site is obtained from the California Aqueduct, which is located east of I-5. The Paulsell Project Site is also located within the service area of the Del Puerto Water District ("DPWD"), a separate irrigation district which delivers raw water from the Delta-Mendota Canal to farms within its service areas. Figure 1 shows the water agency service areas in and around the Paulsell Project. The Central California Irrigation District is approximately 1 mile east of the Paulsell Project Site.

OFWD provides water to the existing farm on the Paulsell Project Site for its irrigation supply. A turnout from the California Aqueduct at Ward Avenue is operated by OFWD for irrigation supply and could also be accessed as a water source for the Paulsell Project (DPDW 2020a) in the event that piped water is not available. The Paulsell Project Site is also within the DPWD service area. DPWD obtains Central Valley Project ("CVP") water from the Delta-Mendota Canal but does not deliver this water to the Paulsell Project Site. A construction water truck fill turnout location is available as a possible water source for the Paulsell Project (DPWD 2020a). Both turnouts are shown in Figure 1. During drought years when DPWD does not have sufficient CVP allocation, it makes up the shortfall through purchases from other water agencies, banked water from previous years, or conveying/storing groundwater pumped into the Delta-Mendota canal under a Warren Act contract for use of excess capacity in CVP facilities (DPWD 2017).

Neither DPWD nor OFWD are considered PWSs because they deliver raw untreated water for irrigation purposes rather than piped water for human consumption. In a database of California's water systems, DPWD and OFWD are not registered as PWS's (Tracking California 2020). The closest water agency that would meet the CWC and SDWA definition of a public water system is the City of Patterson, and its boundary is located over 7 miles north of the Paulsell Project Site (Figure 1). CWC Section 10910(b) requires consideration of adjacent PWSs when determining potential water service for a project. Review of the City of Patterson General Plan identifies a "Southern Expansion Area," the southern extent of which is north of West Marshall Avenue, still over 5 miles to the north of the Paulsell Project's northern boundary (City of Patterson 2010). This indicates that even if buildout of General Plan land uses in the City of Patterson were to occur, and the City's water service area expanded with buildout, the service area would still be too far away to feasibly be considered available to provide permanent water service for the Paulsell Project. This also means that the City of Patterson's Urban Water Management Plan does not cover the Paulsell Project Site.

1.3.2 Is there a current urban water management plan that accounts for the Paulsell Project demand?

There is no urban water management plan coverage for the Paulsell Project site.



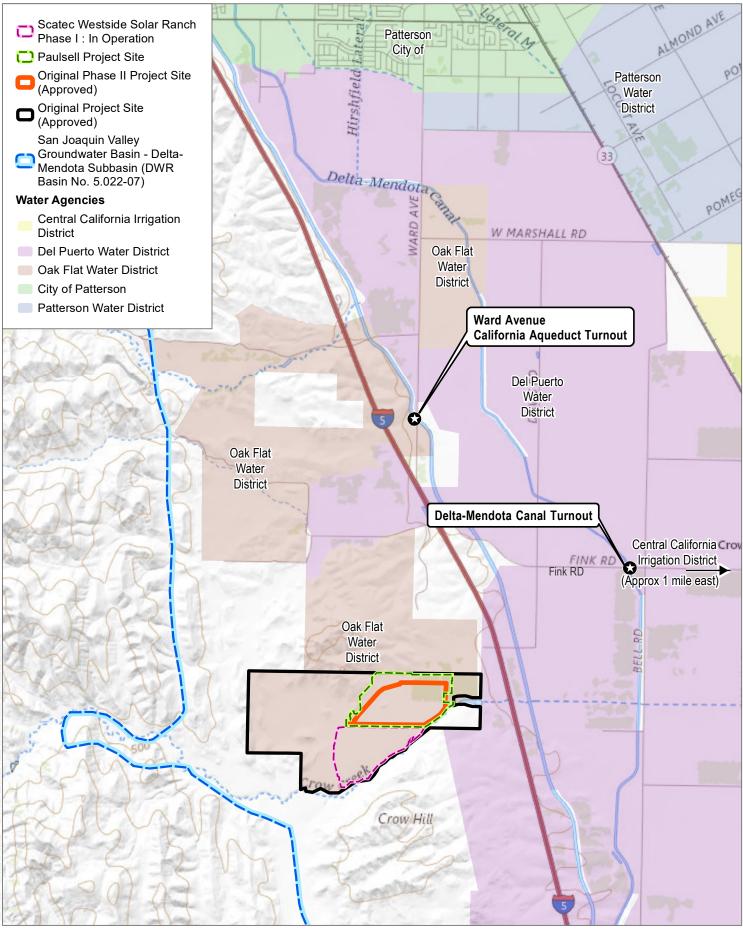
1.3.3 Is groundwater a component of the supplies for the Paulsell Project?

Groundwater is expected to be a source of water supply for the Paulsell Project. A Groundwater Resources Impact Analysis has been prepared in accordance with requirements of the County Groundwater Ordinance (Attachment A). Groundwater resources are described in Section 3.2.

1.3.4 Are there sufficient supplies to serve the Paulsell Project? over the next 20 years?

Based on the assessment discussed in Section 2, Project Water Demand, Section 5, Conclusions and Attachment A, Groundwater Resources Impact Analysis of this report, sufficient water resources are available to serve the Paulsell Project's construction and operational water demands under normal-year, single-dry-year, and multiple- dry-year conditions over a 20-year period required by the legislation and the 35-year project life. In addition, Paulsell Project implementation would not significantly impact groundwater resources, groundwater-dependent ecosystems (GDEs), adjacent groundwater wells, or land subsidence in the vicinity of the Paulsell Project.





SOURCE: DWR 2020

FIGURE 1

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2 Project Water Demand

The Paulsell Project would require approximately 60 acre-feet ("AF") of water to support construction over an 8-month period. Thereafter, the Paulsell Project would require up to approximately 2 acre-feet per year ("AFY") to support operation and maintenance ("O&M") activities. The estimated water demands for each phase of the Paulsell Project is provided in Table 1 and further described in the following sections.

Table 1. Project Water Demand

Phase/Activity	Estimated Water Demand Rate	Total Estimated Water Demand (acre-feet)				
Construction (rounded up to the nearest 10 acre-feet)						
Grading and dust control	0.24 acre-feet/acre	60				
Operation and Main	Operation and Maintenance (rounded to the nearest acre-foot)					
Panel washing, miscellaneous facility maintenance, and sanitary facilities (operation and maintenance building)	Panel washing to occur up to four times per year	2				

2.1 Construction Water Demand

The water demand for the Paulsell Project is based on its disturbance footprint, because the primary water demand associated with construction is dust control. Dudek gathered metered water use data associated with the construction of five solar projects in Southern California and Nevada. The average construction water demand for these projects was 0.24 AF/acre, ranging from a minimum of 0.13 AF/acre to a maximum of 0.33 AF/acre. The disturbance footprint for these projects range from 100 acres to 2,400 acres. These projects were all located in highly dry and dusty environments, so using the average from these five projects (0.24 AF/acre) for the Paulsell Project's water demand estimate represents a conservative planning-level estimate that would accommodate for additional details as the Paulsell Project design is refined (e.g., earthwork volume estimates).

Based on the water demand factor of 0.24 AF/acre and the Paulsell Project footprint of 232 acres, the construction water demand is estimated to be approximately 55.7 AF over an approximately 8-month period. This number has been rounded to the nearest 10 AF (60 AF).

2.2 Operation and Maintenance Water Demand

The estimated water demand for O&M activities is shown in Table 1. Other solar projects within the region (e.g., Wright Solar Project, Sullivan Solar Project, and San Luis Solar Project) have estimated a panel washing event to require anywhere between 800 gallons and 2,500 gallons per megawatt ("MW"). Of these projects, the highest water demand for panel washing, 2,500 gallons/MW, is used as the water demand factor (County of Merced 2014). During Paulsell Project operations, solar panel washing is expected to occur one to four times per year. While it is expected that solar photovoltaic panels would only be washed once per year, the panels may need to be washed more frequently (up to four times per year) based on site conditions. Conditions that may necessitate increased wash requirements include unusual weather occurrences, fires, local air pollutants, and other similar conditions.

Therefore, panel washing is anticipated to require 0.6 AFY.2 A small, ongoing water demand of 0.6 AFY for miscellaneous needs (i.e., periodic site maintenance, fire suppression) is also added to the O&M water demand. It is anticipated the water demand for an O&M facility would be equivalent to the water demand of a rural domestic home (or about 0.5 AFY). In total, the O&M water demand is anticipated to be 1.7 AF). Given the uncertainty associated with these water demands, a buffer is added, which means a permanent water demand of 2 AFY is assumed for the purposes of analysis in this WSA.

^{2,500} gallons/MW x 20 MW direct current x 4 = 200,000 gallons x (1 gallon / 325,851 AF) = 0.6 AF (rounded)



April 2021 8

3 Water Resources Inventory

3.1 Local Surface Water

The Paulsell Project Site is located along the edge of the eastern foothills of the Diablo Mountain Range. According to topographic maps, Crow Creek runs along the southeastern portion of the Paulsell Project Site. Most of the Paulsell Project Site lies within a small valley between foothills to the north and south. Dudek conducted a Phase I Environmental Site Assessment ("ESA") for the entire Beltran Farms property (in which the Paulsell Project Site is located) in 2018 (Dudek 2018), during which site reconnaissance was performed. The findings revealed that there were two on-site ponds, a small pond used as drinking water for horses, and a large pond retained by an earthen dam, used as drinking water for cattle. Surface water on the Paulsell Project Site drains eastward, or toward the natural and humanmade irrigation waterways on the Paulsell Project Site. With the lack of permanent surface water, springs, or reservoirs, local surface water is not expected to be a significant or reliable source of water for the Paulsell Project.

Generally, there are no wetlands or significant waterways within the boundaries of the Paulsell Project Site. The seasonal Crow Creek traverses the Beltran Farms property (through Assessor's Parcel Number ["APN"] 027-017-063 and APN 027-017-077); however, this portion of the Beltran Farms property is not a part of the Paulsell Project but will remain in agricultural use as it is today. No runoff beyond the historical flow will leave the Paulsell Project Site, and no drainage structures are necessary to collect, control, or divert any stormwater; additionally, no storage basins are proposed.

3.2 Groundwater

Two pump houses and well locations were identified on the Beltran Farms property (on which the Paulsell Project Site is located) in the 2018 ESA (Dudek 2018) and are shown on Figure 2. Groundwater—either from an on-site well(s) or imported from off site—is proposed as the Paulsell Project's secondary source of water for construction and 0&M purposes. As discussed below in Section 3.3, imported surface water would be available from either DPWD or OFWD for construction on a first-come, first-served basis, subject to availability. Groundwater is available on the Beltran Farms property and is assumed to be utilized currently to supply the domestic water demand for the residence located on the Beltran Farms property. As of November 2018, the Paulsell Project Site was serviced by a private well or non-public water source (Dudek 2018). This WSA focuses on the availability, quality, and sustainability of groundwater because it is a reliable secondary source of water for the Paulsell Project's water demands.

In summary, groundwater can be obtained through one or more of the following means:

- Using one or more of the existing groundwater wells adjacent to the site located on the Beltran Farms property, if they are serviceable, adequately constructed, and provide sufficient yield.
- Redeveloping existing wells or drilling new wells on site to provide adequate yield, per Stanislaus County Well Permitting and Construction Standards.
- Obtaining water from the two off-site wells identified in the Groundwater Resources Impact Analysis (Attachment A).

Based on the Paulsell Project's water demand, groundwater sources (individually or combined) would need to yield approximately 56 gallons per minute ("GPM") for the approximately 8-month construction period, and 1.2 GPM for operations. As discussed below, the groundwater basin can yield this amount of groundwater without adverse impacts to other users in the basin.

3.2.1 Groundwater Basin Description

The entire Paulsell Project Site is located within northwestern portion of the Delta-Mendota Subbasin of the San Joaquin Valley Groundwater Basin (DWR Basin No. 5-022.07, or "Subbasin"), as defined by the DWR (DWR 2003, 2019a). The Great Valley is a broad structural trough bounded by the tilted block of the Sierra Nevada on the east and the complexly folded and faulted Coast Ranges on the west. The western boundary of the Subbasin is defined by the areal extent of unconsolidated to semi-consolidated sedimentary deposits that are bounded by Tertiary and older marine sediments of the Coast Ranges. The northern boundary begins just south of Tracy in San Joaquin County. The eastern boundary generally follows the San Joaquin River and Fresno Slough. The southern boundary is near the small town of San Joaquin. Water-bearing formations consist of the Tulare Formation, terrace deposits, alluvium, and flood-basin deposits, and the cumulative thickness of these deposits increases from less than a few hundred feet near the Coast Range foothills on the west to many thousands of feet along the eastern margin of the basin (DWR 2003). With the Paulsell Project Site located on the western edge of the Subbasin, the water-bearing alluvial/valley deposits are on the low end of the range of thickness (see below for well log information). It should be noted that the Corcoran Clay, an important regional aquitard within the Tulare Formation, does not underlie a majority of the Paulsell Project Site, based on notations in well completion reports and review of published reports (SLDMWA 2019; USGS 2009 [see Attachment A Figure 2 for extent of Corcoran Clay in the vicinity of the Paulsell Project site]). Annual precipitation within the Subbasin ranges from about 9 inches in the south to about 11 inches in the north (DWR 2003). DWR reports that average groundwater yields in the Subbasin range from 800 GPM to 2,000 GPM, when isolating the yields obtained by municipal and irrigation wells.

3.2.2 Department of Water Resources 2019 Basin Prioritization

The Subbasin is designated as a "high priority" subbasin and as being in a state of critical overdraft by DWR (DWR 2019a). This designation means that it is subject to the requirement to prepare a Groundwater Sustainability Plan ("GSP") under the Sustainable Groundwater Management Act ("SGMA") (see Section 4.1 below). Basin priority is based on a combination of existing population and anticipated population growth; groundwater well density; agricultural demands; and the historical and current documented impacts to water levels and storage, groundwater quality, subsidence, or groundwater-dependent ecosystems. According to DWR's basin prioritization ranking, the Subbasin receives high scores from the following factors:

- Population growth projection for the year 2030 is anticipated to be high (about a 53% increase relative to 2010 population)
- Extensive coverage of irrigated agriculture, estimated to be about 329 acres per square mile (or about 51% of the Subbasin)
- A high degree of reliance on groundwater, estimated to consist of 1.09 AFY per Subbasin acre (or about 53% of the Subbasin's total water supply)
- Documented impacts including a consistent groundwater level decline and land subsidence (DWR 2019a)

Conversely, the Subbasin received low prioritization scores for existing population density (98 persons per square mile), as well as the existing density of wells including public supply wells (0.09 public supply wells per square mile). The Subbasin satisfies DWR's blanket condition that all groundwater basins that are identified in DWR Bulletin 118 as being in a state of critical overdraft receive a high priority (though note that with a total prioritization score of 40, it would have ranked as a high priority basin regardless of this blanket condition) (DWR 2003).

3.2.3 On-Site Well Inventory and Groundwater Levels

A review of DWR's well completion database was completed to gather data on well counts and depths by township and range section in all township and range sections that intersect the Paulsell Project, the results of which are shown in Figure 2 and Table 2. The database reveals several wells on the Beltran Farms property and in the surrounding area, consisting of two wells categorized as domestic and five wells categorized as production (agricultural, irrigation, stock purposes), with depths generally greater than 100 feet below the ground surface ("bgs"), up to a maximum of 440 feet bgs (DWR 2020a). It should be noted that the records shown in Table 2 are a minimum, since some wells may not have an associated well completion report, depending on a variety of factors such as when and for what purpose they were drilled, who the driller was, and database/transcription errors, among others. A Public Records Act request to Stanislaus County to identify wells in and around the Paulsell Project Site did not yield any results. Lithological logs of the wells generally indicate thick sequences of clay interbedded with sand and gravel. Where static groundwater levels were noted, they ranged from 20 feet bgs to 196 feet bgs.

During the ESA conducted in November 2018, four groundwater supply well pump houses were observed during the site reconnaissance, three of which are located within the Beltran Farms property and two of which are located within the Paulsell Project Site. The farm's well numbering system suggested there are more. These were covered by canopies and supplied with power by Pacific Gas and Electric (Dudek 2018). The locations of these pump houses are depicted on Figure 2. As part of the ESA, an Environmental Data Resources ("EDR") search was conducted. Based on sources searched by EDR, no public water supply wells were mapped within 1 mile of the Paulsell Project Site. The EDR Well Report listed two water wells within the Beltran Farms property. Depth to water, when reported, was at 44 feet bgs. An additional 10 water wells were listed within 1 mile of the Beltran Farms property. Depths to water, when reported, ranged from 6 feet bgs to 38 feet bgs. John E. Beltran, site owner, confirmed during the ESA that the Beltran Farms property is serviced by a private well or non-public water source (Dudek 2018).

Well yields on the Beltran Farms property are not known, as none of the well completion reports reviewed reported well test yields. Although DWR reports high well yields of 800 GPM to 2,000 GPM in the broader Subbasin, these are most likely representative of municipal and irrigation wells located east of I-5, rather than on the fringes of the groundwater basin where the Paulsell Project is located. The ESA noted that an existing residence on the Beltran Farms property uses a groundwater well; therefore, at a minimum, the well yield is sufficient for domestic purposes.

Table 2. DWR Well Completion Report Statistics in the Vicinity of the Paulsell Project Site

Township and Range Section	Domestic Well Count	Average Well Depth, in Feet (Range)	Production (Irrigation, Agricultural, Stock) Well Count	Average Well Depth, in Feet (Range)	Public Well Count	Average Well Depth, in Feet (Range)
T06S07E25				1		
T06S07E26				ı	-	
T06S07E27				-		

Table 2. DWR Well Completion Report Statistics in the Vicinity of the Paulsell Project Site

Township and Range Section	Domestic Well Count	Average Well Depth, in Feet (Range)	Production (Irrigation, Agricultural, Stock) Well Count	Average Well Depth, in Feet (Range)	Public Well Count	Average Well Depth, in Feet (Range)
T06S07E35			-	-	-	
T06S07E36				-		
T06S08E30	2	320 (200-440)	4	162 (80-280)	1	
T06S08E31				1	-	
T07S07E01				1	1	
T07S07E02				-	-	
T07S08E06			1	205		

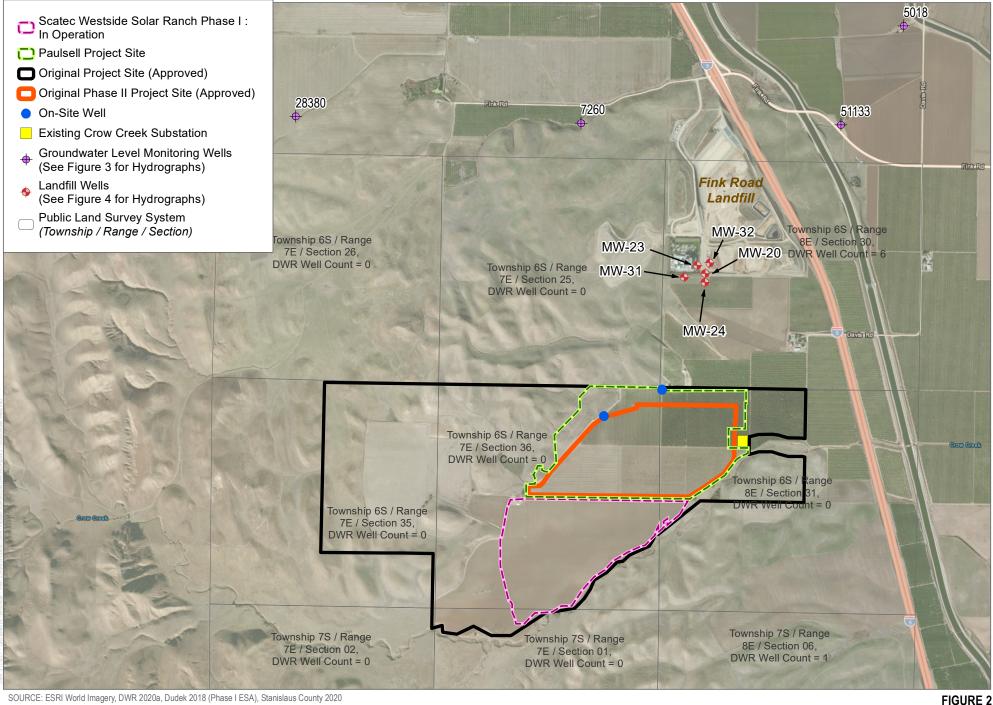
Source: DWR 2020a.

In addition to records of the well completion reports discussed above, four groundwater level monitoring wells (Nos. 5018, 7260, 28380, and 51133) north of the Paulsell Project are shown on Figure 2 and discussed here due to the availability of historical groundwater data (DWR 2020b; Dudek 2020). The shallow groundwater (relative to other parts of the Subbasin) is likely a result of the site being on the margin of the San Joaquin Valley, where the overall surface of the groundwater table dips to the east–northeast, and where the depth to bedrock shallows significantly with proximity to the coast range hills.

Except for seasonal variation resulting from recharge and pumping, and multiyear drought periods, the majority of water levels in wells have remained relatively stable since the late 1940s (Figure 3). The well with the longest running records (No. 5018) shows no change in groundwater elevation between 1958 and 2008. The only well with a recent record of groundwater levels is well No. 51133, located along Fink Road east of the California Aqueduct crossing. This well shows recovering groundwater levels, after a steep decline in 2015, likely a result of the major drought. The decline in 2015 was about 60 feet and has recovered about 25 feet since that time.

Monitoring wells on the adjacent Fink Road Landfill have been monitored quarterly for groundwater levels since January 11, 2019 (Stanislaus County 2020). Five of the closest wells adjacent to the Paulsell Project are mapped on Figure 2 and were reviewed for information on depth to groundwater trends over time. While the data is recent, it shows no change or a slight increase in groundwater level through 2019.

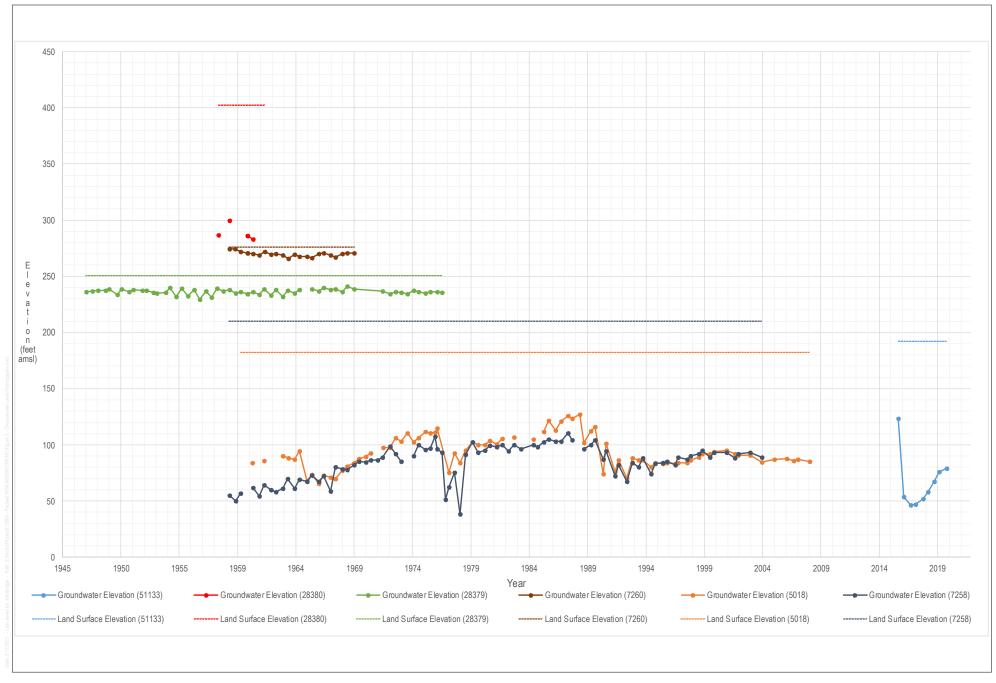
Overall, the long-term record of groundwater levels in and around the Paulsell Project Site are not consistent with a condition of long-term overdraft, which is a known problem in other parts of the Subbasin with a higher density of agricultural wells. The stability of groundwater levels over time—despite site and valley locations to the east being used for irrigated agriculture during the same time frame—means that a conversion of the site to a land use with a lower water demand would not impact the groundwater levels or well yields for the overlying beneficial users of the basin. The estimated level of groundwater pumping during the construction and O&M phases will be lower on a peracre basis than the average user throughout the Subbasin. While reducing site irrigation could potentially reduce groundwater extraction, lowering of the groundwater table is a possibility due to a reduction in return flows from irrigation of imported water.



SOURCE: ESRI World Imagery, DWR 2020a, Dudek 2018 (Phase I ESA), Stanislaus County 2020

Groundwater Well Inventory

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SOURCE: DWR 2020

FIGURE 3
Groundwater Level Hydrographs

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3.2.4 Groundwater Quality

Groundwater quality in the Subbasin varies by location (SLDMWA 2019). Concerns related to groundwater quality are largely related to non-point sources and/or naturally occurring constituents. Primary constituents of concern throughout the Subbasin are total dissolved solids ("TDS"), nitrate as nitrogen (nitrate as N), and boron, which all have anthropogenic as well as natural sources. In recent years, TDS concentrations in the Upper Aquifer (i.e., the aquifer that underlies the Paulsell Project Site) are generally stable near or below the secondary maximum contaminant level ("MCL") of 1,000 milligrams per liter ("mg/L"). In the Lower Aquifer, TDS concentrations are largely stable though have been found to exceed the secondary MCL in some locations. Nitrate concentrations are largely below the primary MCL of 10 mg/L, with elevated concentrations above the primary MCL found south of Los Banos and northwest toward Patterson in the Upper Aquifer, and at elevated concentrations below the primary MCL in the Lower Aquifer in locations where the Corcoran Clay is thin or nonexistent. While boron does not have a drinking water standard, many crops are sensitive to high boron concentrations. Boron concentrations are greater than the agricultural goal within the Grassland Drainage Area (at about 2 mg/L), where near the City of Patterson, boron concentrations are generally stable and below agricultural objectives at 0.4 mg/L (SLDMWA 2019).

The summary of groundwater quality above is a general summary applicable to the Subbasin as a whole. More specific groundwater quality data is available for the DPWD service area and is reported in its Agricultural Water Management Plan ("AWMP") (DPWD 2017). Table 3 summarizes the results of groundwater quality monitoring conducted by DPWD for the purpose of demonstrating it meets Modified Title 22 requirements needed to pump groundwater into the Delta-Mendota Canal. Concentrations of TDS, however, may exceed the secondary potable water quality standard of 1,000 mg/L. The private landowner wells utilizing DPWD's Warren Act contract are not located in or near the Paulsell Project Site, but further to the east. In addition, the adjacent Fink Road Sanitary Landfill measures groundwater quality in two background sample points on a quarterly basis to ensure it is not leaking contaminants. The background sample locations for the landfill are immediately north of the Paulsell Project Site's northern boundary. Table 4 summarizes the results of the landfill's most recent (2019) water quality monitoring report (Stanislaus County 2020). The groundwater gradient underlying the landfill is to the northeast, away from the Paulsell Project Site, and the report indicates that the landfill's leachate collection system is working adequately, and no contaminants are being released to the aquifer (Stanislaus County 2020).

Overall, these results indicate water quality that is adequate for irrigation purposes, but marginally adequate for potable purposes. Water quality results indicate that trace metals (e.g., mercury, arsenic, selenium, and boron) are below drinking water quality standards, but that pumped groundwater may need treatment for nitrate and salinity issues.

Table 3. Groundwater Quality with Del Puerto Water District's Service Area

Analysis	Unit	Average	Range	Comparison Concentration
TDS	mg/L	1,200	500 - 2,500	1,000 (SMCL)
Boron	μg/L	500	200 - 1,000	1,000 (Notification Level)
Selenium	µg/L	5	0 - 15	50 (MCL-US)
Mercury	μg/L	ND	0 - 2	2 (MCL-US)
Arsenic	µg/L	2.0	0 - 10	10 (MCL-CA)

Source: DPWD 2017.

Notes: TDS = total dissolved solids; mg/L = milligrams per liter; µg/L = micrograms per liter; SMCL = secondary MCL; MCL-US = federal drinking water maximum concentration; MCL-CA = California drinking water maximum concentration.

Table 4. Groundwater Quality within the Fink Road Sanitary Landfill "Background" Monitoring Wells (2019)

Analysis	Unit	2019 Average	2019 Minimum	2019 Maximum	Comparison Concentration
TDS	mg/L	501.25	350	800	1,000 (Notification Level)
Nitrate as N	mg/L	5.95	2.2	8.4	1 (MCL-US)
Potassium (dissolved)	mg/L	26.78	2.1	82	-
Sodium (dissolved)	mg/L	100.00	73	170	50 (Action Level)
Electrical Conductivity	µmhos/cm	980.13	614	1880	1,600 (SMCL)
Magnesium (dissolved)	mg/L	13.74	0.15	29	
Sulfate as SO ₄	mg/L	61.25	16	160	500 (SMCL)
Chloride	mg/L	46.50	27	99	500 (SMCL)
рН	pH units	7.05	6.37	7.67	
Calcium (Dissolved)	mg/L	24.86	3.2	36	
Carbonate Alkalinity	mg/L	45.30	6.2	69	
Bicarbonate Alkalinity	mg/L	242.83	17	310	
Temperature	°C	18.74	17	20.8	

Source: Stanislaus County 2020.

Notes: TDS = total dissolved solids; mg/L = milligrams per liter; MCL-US = federal drinking water maximum concentration; µmhos/cm = micromhos per centimeter; SMCL = secondary MCL; °C = degrees Celsius.

3.3 Imported Water

DPWD and OFWD both rely on delivery of surface water from the CVP (federal) and SWP, respectively, as the major source of agricultural water supply in the valley. The existing almond orchards on the Paulsell Project Site are irrigated with water delivered by the OFWD, which has a contract with the DWR to purchase water from the California Aqueduct.

Water for construction-related purposes from either district is currently available on a first-come, first-served basis.

3.3.1 Del Puerto Water District

DPWD was formed in 1947 to contract for and administer delivery of water supplies to landowners within its service area as part of the Bureau of Reclamation's development of the CVP. In 1995, it consolidated with several other similarly contracted water districts, significantly expanding its service area, which as of 2015, encompassed 45,229 acres of irrigated farmland for about 129 farms (DPWD 2017). DPWD's contractual entitlement from the CVP—140,210 AFY must be supplemented by single- and multiyear transfer agreements to provide adequate supply. This supply is significantly constrained and unreliable, due to ongoing Bay-Delta pumping restrictions for protection of endangered species, and periodically curtailed due to drought conditions. For example, in 2015, it received 0% of its contractual entitlement of surface water due to severe drought. To continue serving the water demands of its

customers, DPWD largely made up by pumping groundwater, establishing transfer agreements with other districts, and using banked water (from years in which DPWD doesn't use its allocated amount). In years with little or no allocation of CVP water, water is purchased from other water districts and "wheeled" through the Delta Mendota Canal for DPWD use, and there is a significantly increased use of groundwater by individual farmers who utilize the District's Warren Act groundwater conveyance/storage contract. In 2015, DPWD delivered 12,855 AF of groundwater,³ 27,292 AF of banked water, and 12,148 AF of transferred water to serve a total of 52,295 AF within its service area. This distribution of water sources is representative of a severe drought situation; in average and wet water years, its delivered supply comes primarily from its CVP entitlement (DPWD 2017). Additionally, in March of 2020 the District fully implemented the North Valley Regional Recycled Water Program, which currently provides up to 27,000 AFY for agricultural beneficial use within the District as well as environmental beneficial use on the Central Valley Project Improvement Act designated wildlife refuges in the Region.

Information about imported water volumes is available from DPWD's AWMP submitted to DWR in accordance with the Water Conservation Act of 2009 ("SB X7-7"). SB X7-7 requires agricultural water suppliers serving more than 25,000 irrigated acres (excluding recycled water deliveries) to adopt and submit an AWMP to DWR. These plans must include reports on the implementation status of specific Efficient Water Management Practices ("EWMPs") that were required under SB X7-7. Based on this AWMP, for the 10-year period between 2006 and 2015, DPWD delivered a yearly average of 63,867 AF from its surface water rights/contracts to its customers, with a maximum amount of 95,473 AF in 2007 and a minimum amount of 27,927 in 2014. During average and wet years, the majority of this water comes from its CVP allocation, whereas in dry or critically dry years, it comes from banked water and water transfers. The remainder of its customer demand is served from groundwater.

3.3.2 Oak Flat Water District

Because OFWD has less than 25,000 irrigated acres, it is not required to prepare an AWMP, and therefore, no information on the volume of water delivered by OFWD in recent years (2019 and 2020) is publicly available. OFWD has a "Table A" SWP contract amount of 5,700 AFY, but like all other SWP contractors, rarely receives the full allocation. As outlined in Table 5, in 2020, the SWP allocation to OFWD is 1,140 AF, or 20% of the contractual maximum (DWR 2020c). The allocated amount in water year 2019 was 75% (DWR 2020c). In previous years, OFWD has delivered an average of about 2,000 AF of water to the farmers within its service territory, which includes the on-site almond orchard.

Table 5. State Water Project and Central Valley Project Contractual Amounts Versus Actual Allocation By Year (2015-2020)

Imported Surface Water Supply Sources	2015	2016	2017	2018	2019	2020
CVP "South of Delta" Agricultural Contractor's Allocation	0%	5%	100%	50%	75%	20%
Del Puerto Water District Available Allocation (140,210 AFY Maximum Allocation)	0	7,010	140,210	70,105	105,158	28,042

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This consists of customer water pumped via Warren Act contract and stored in individual customer accounts.

Table 5. State Water Project and Central Valley Project Contractual Amounts Versus Actual Allocation By Year (2015-2020)

Imported Surface Water Supply Sources	2015	2016	2017	2018	2019	2020
SWP "Table A" Allocation			59%ª		75%	
Oak Flat Water District Water Delivered/ Available Allocation (5,700 AFY Maximum Allocation)	1,044	1,855	2,893	2,289	4,275 ^b	1,140

Sources: DWR 2020c, 2019b; DPWD 2017.

Notes: CVP = Central Valley Project; AFY = acre-feet per year; NA = Not Available; SWP = State Water Project.

- This is the long-term average for all SWP contractors, based on the 2019 Deliver Capability Report (DWR 2019b).
- Note these are SWP allocations only and are not necessarily the amount of water delivered to customers.

3.4 Recycled Water

There is no recycled water available to the Paulsell Project Site. DPWD recently has developed the North Valley Regional Recycled Water Program, a large-scale conjunctive use project located within Stanislaus County. A partnership between DPWD, the City of Modesto, and the City of Turlock, the North Valley Regional Recycled Water Program currently conveys up to 27,000 AFY of tertiary-treated recycled water from the Cities of Modesto and Turlock. This recycled water is blended with water in the Delta-Mendota Canal to provide deliveries of up to 59,000 AFY at full implementation to agricultural uses within DPWD's service area, as well as to the Delta Central Valley Project Improvement Act-designated wildlife refuges (SLDMWA 2019). Recycled water discharged to the Delta Mendota Canal is subject to the California Regional Water Quality Control Board's waste discharge permit requirements. This project is one of several intended to provide an alternative to DPWD CVP allocation, which is unreliable and chronically underserved (see Table 5).

4 Water Resources Plans and Programs

Because the Paulsell Project is not (nor is expected to be) part of the service area of a PWS or urban water supplier (i.e., subject to urban water management plans/programs), the scope of applicable water resource plans and programs is therefore limited to agricultural water programs and groundwater management. The listed program below that is specific to agriculture (Irrigated Lands Regulatory Program ["ILRP"]) will cease to be directly applicable once the site is developed as a solar project but remains relevant because it helps maintain and improve groundwater quality throughout the Subbasin and because both DPWD and OFWD are enrolled in the ILRP.

4.1 Sustainable Groundwater Management Act

The SGMA is a package of three bills (Assembly Bill 1739, SB 1168, and SB 1319) that provides local agencies with a framework for managing groundwater basins in a sustainable manner. The SGMA establishes minimum standards for sustainable groundwater management, roles, and responsibilities for local agencies that manage groundwater resources, priorities, and timelines to achieve sustainable groundwater management within 20 years of adoption of a GSP. Central to the SGMA are the identification of critically overdrafted basins, prioritization of groundwater basins, establishment of Groundwater Sustainability Agencies, and preparation and implementation of GSPs for medium-priority, high-priority, and critically overdrafted basins. The SGMA required Groundwater Sustainability Agencies to be formed by June 30, 2017. GSPs must consider all beneficial uses and users of groundwater in the basin, as well as include measurable objectives and interim milestones that ensure basin sustainability. A basin may be managed by a single GSP or multiple coordinated GSPs. At the state level, DWR has the primary role in the implementation, administration, and oversight of the SGMA, with the State Water Resources Control Board stepping in should a local agency be found to not be managing groundwater in a sustainable manner. DWR approved regulations and guidelines for implementation of the SGMA.

In 2019, the Northern & Central Delta-Mendota Region GSP was published and adopted by the GSAs that coordinated to develop and implement the GSP covering the western and northern parts of the Delta-Mendota Subbasin (DWR Basin No. 5-022.07). The plan area for the GSP covers the Paulsell Project Site as well as the DPWD and OFWD service areas. Both DPWD and OFWD comprise what is referred to as the "DM-II" GSA, which is a multiagency GSA formed on April 19, 2017, by cooperative agreement between the two districts. The GSP outlines a plan to achieve a condition of sustainable groundwater management by establishing numeric thresholds that indicate the Subbasin is being managed sustainably, as well as numerous projects and management actions that are supportive of the GSP's sustainability goals. The sustainability goals include correcting the Subbasin's status as being in a condition of critical overdraft, as well as preventing significant and unreasonable declines in groundwater levels and groundwater quality by 2040. The GSP lacks data on the Paulsell Project Site specifically, as there are few groundwater level or groundwater quality monitoring wells that have had a long and full enough record to use as representative monitoring sites. Although the Paulsell Project would use 60 AF for construction and up to 2 AFY for O&M, conversion of the site to a less-intensive water use (from agriculture to solar electric) is supportive of the GSP's long-term goal of achieving a balanced water budget because it eliminates the need for irrigation on site.

4.2 Groundwater Well Permitting and Construction Standards

Stanislaus County adopted a Groundwater Ordinance in November 2014 (Chapter 9.37 of the County Code; hereinafter, the "Ordinance") that codifies requirements, prohibitions, and exemptions intended to help promote sustainable groundwater extraction in unincorporated areas of the County. The Ordinance prohibits the unsustainable extraction of groundwater and makes issuing permits for new wells that are not exempt from this prohibition discretionary. Applications for nonexempt wells must include substantial evidence that they will not withdraw groundwater unsustainably. For unincorporated areas covered in an adopted GSP pursuant to SGMA, the County can require holders of permits for wells it reasonably concludes are withdrawing groundwater unsustainably to provide substantial evidence that continued operation of such wells does not constitute unsustainable extraction and has the authority to regulate future groundwater extraction.

DWR has developed well standards for the state per CWC Section 13700 to 13806. These standards have been adopted by the State Water Resources Control Board into a statewide model well ordinance (Resolution No. 89-98) for use by the Regional Water Quality Control Boards for enforcing well construction standards where no local well design ordinance exists that meets or exceeds the DWR standards. DWR's Well Standards are presented in Bulletin 74-81 and Bulletin 74-90, and incorporated into the County Groundwater Ordinance by reference (SLDMWA 2019). The standards include the following:

Well applicants must first fill out the Application for Well Construction or Destruction form and submit it to the Stanislaus County Department of Environmental Resources, in addition to paying the appropriate fees, before receiving a well construction or destruction permit. After receipt of the application, it is reviewed by the Department of Environmental Resources to determine whether it is subject to prohibitions in the Groundwater Ordinance against unsustainable groundwater extraction and export of water using the following criteria:

- The well is pumping from a known and definite channel;
- The well is intended to replace an existing well permitted prior to November 25, 2014, and the replacement well has no greater capacity than the well it is replacing;
- The well is located in an unincorporated area of the County;
- Wells on property served by a public water agency that is in compliance with an adopted Groundwater Management Plan or Groundwater Sustainability Plan;
- Wells intended to extract 2 AFY of groundwater or less; and
- Groundwater extraction or water export in compliance with a permit previously granted by the Department of Environmental Resources.

Rehabilitation of an existing well or construction of a new well on site would need to comply with County well permitting requirements. If the application is not exempt based on these criteria, the applicant must submit a Supplemental Application for Non-Exempt Wells with information to demonstrate that groundwater pumped from the well is being sustainably extracted without causing any of the undesirable results defined in the Northern & Central Delta-Mendota Region GSP.

The County then conducts a technical review to verify whether the information submitted in the supplemental application demonstrates that groundwater extraction from the well will not cause, or substantially contribute to, any "Undesirable Results." If the applicant fails to demonstrate that proposed extractions will not substantially contribute to any "Undesirable Results," there is an opportunity for the applicant to submit additional data, accept mitigation measures, or amend their application.

4.3 Water Conservation Act of 2009

The Water Conservation Act of 2009 (SB X7-7) requires agricultural water suppliers serving more than 25,000 irrigated acres (excluding recycled water deliveries) to adopt and submit an AWMP to DWR. These plans must include reports on the implementation status of specific EWMPs that were required under SB X7-7 and are to be submitted every 5 years. DPWD has an AWMP for the 2015 reporting period, and OFWD is not required to prepare one.

All agricultural water suppliers that are required to prepare and submit an AWMP must report on the status of EWMPs implementation. Furthermore, all of the large agricultural water suppliers (more than 25,000 irrigated acres) have to implement certain EWMPs listed in SB X7-7. All of these suppliers must implement these two EWMPs:

- Water measurement at the delivery point with a certain level of accuracy
- Volumetric pricing

The other EWMPs are required where they are technically feasible and locally cost-effective. Mid-sized suppliers are not required to implement the EWMPs unless funding is made available to them specifically for this purpose.

Agricultural water suppliers can submit individual plans or collaborate and submit regional plans, as long as the plans meet the requirements of SB X7-7. Agricultural water suppliers that provide water to between 10,000 and up to 25,000 irrigated acres (excluding recycled water) are not required to prepare or submit AWMPs under SB X7-7, unless state funds are made available to support this.

4.4 Irrigated Lands Regulatory Program

In 1999, the California Legislature passed SB 390, which eliminated a blanket waiver for agricultural waste discharges. SB 390 required the Regional Water Quality Control Water Boards to develop a program to regulate agricultural lands under the Porter-Cologne Water Quality Control Act. In 2003, the Central Valley Regional Water Quality Control Board issued an order that sets Waste Discharge Requirements from irrigated lands to protect both surface and groundwater throughout the Central Valley, primarily to address nitrates, pesticides, and sediment discharge. The resulting ILRP regulates wastes from commercial irrigated lands that discharge into surface and groundwater. The program is administered by the Central Valley Regional Water Quality Control Board, working directly with a regional or crop-based coalition and growers. The goal of the ILRP is to protect surface water and groundwater and to reduce impacts of irrigated agricultural discharges to waters of the state. As a result of the ILRP, monitoring reports, assessment reports, management plans, surface water quality data, and groundwater quality data are made available to the public.

Implementation of the ILRP in the Subbasin is managed primarily by the Westside San Joaquin River Watershed Coalition ("Westside Coalition") under the San Joaquin Valley Drainage Authority, a California Joint Powers Authority. Both DPWD and OFWD are members of the Westside Coalition. This region specifically emphasizes nitrogen, sediment, and erosion control. Management of waste discharge in the Westside Coalition area includes:

- Farm-scale evaluation surveys and management plans submitted by growers. In high-vulnerability
 groundwater areas, growers must submit a plan with more stringent levels of certification.
- Comprehensive groundwater quality management plans submitted by the Westside Coalition to the Central Valley Regional Water Quality Water Board for approval.
- Evaluation of the effectiveness of management practices by the regional Water Quality Management Practices Evaluation Program Group.
- Surface water monitoring plans, annual monitoring reports, management plans, and sediment discharge and erosion assessment reports.

4.5 Warren Act

The Warren Act is a federal statute passed in 1911 that allows local water agencies to contract with federal agencies to store and convey non-project water in federal reservoirs that have excess capacity. DPWD has a Warren Act contract for conveyance and storage of groundwater from 4-S Ranch and SHS Ranch for up to 13,000 AFY, plus additional amount for conveyance losses, into the Delta-Mendota Canal for conveyance and storage of the non-CVP water (Bureau of Reclamation 2014a). 4-S Ranch and SHS Ranch own approximately 7,000 acres of rangeland and irrigated pasture in Merced County. Groundwater is pumped from these lands and conveyed in the Eastside Bypass and/or Bear Creek to the San Joaquin River for diversion at Patterson Irrigation District's screened intakes located at river mile 98.5 on the San Joaquin River. The water is conveyed through Patterson Irrigation District's main canal distribution system and discharged to the Delta-Mendota Canal at milepost 42.53L. Up to 15% of the conveyed water is made available to water users within Patterson Water District pursuant to an agreement with DPWD. Any water not immediately delivered to Patterson Irrigation District or DPWD is stored in San Luis Reservoir for later delivery via exchange with the Bureau of Reclamation. Groundwater is tested for compliance with water quality standards set by the Warren Act. Groundwater samples are tested against modified Title 22 standards for TDS, boron, selenium, mercury, and arsenic.

In addition, DPWD has a separate Warren Act contract for conveyance of non-project recycled, treated water of up to 13,400 AFY from the City of Turlock (Bureau of Reclamation 2014b). Recycled water from the City is discharge to the San Joaquin River at Turlock's existing discharge point for diversion at Patterson Irrigation District's screened intakes. Water is conveyed through Patterson Irrigation District infrastructure as previously described and discharged to the Delta-Mendota Canal. Discharges to the Delta-Mendota Canal are required to adhere to the water quality standards set by the Warren Act.

5 Conclusion

Both the construction water demand (approximately 60 AF) and the long-term water demand (approximately 2 AFY) for the Paulsell Project is significantly lower than the existing water demand for the almond orchard currently planted on site. It is estimated that almond trees require an average of 3.5 AF of water applied per acre per year (Congressional Research Service 2015). Under drought conditions, the water demand for almond orchards is estimated to vary from a low of 41 inches (3.4 AF of water applied per acre per year) in the southern Sacramento Valley to a high of 54 inches (4.5 AF of water applied per acre per year) in the southern San Joaquin Valley (UCD n.d.). Areas where almond trees are planted encompass approximately 186.3 acres. It is estimated that agricultural uses within this approximately 186.3-acre area require approximately 652.1 AF of water per year. Irrigation water is primarily supplied to the Paulsell Project Site by OFWD, which obtains from the California Aqueduct, OFWD has a "Table A" SWP contract amount of 5,700 AFY, but like all other SWP contractors, rarely receives the full allocation. It is likely that a portion of this on-site irrigation demand is from groundwater in drought years, when agricultural water purveyors and individual landowners must compensate for the loss of available surface water (from CVP and/or SWP) through groundwater pumping. It is unknown if the on-site wells are used for irrigation supply. It is likely that a significant portion of this on- site irrigation demand is from groundwater likely from wells outside the area in drought years, when agricultural water purveyors and individual landowners must compensate for the loss of available surface water (from CVP and/or SWP) through groundwater pumping. Despite this issue, the analysis of groundwater level monitoring data shows that groundwater levels in the local area have remained largely stable through the historical record.

Furthermore, a Groundwater Resources Impact Analysis was prepared for the Paulsell Project (Attachment A). This analysis evaluated potential impacts to groundwater resources in the event that the full construction and O&M Paulsell Project water demands were sourced from on-site and/or off-site water wells. The groundwater impact evaluation provided review of potential impacts to groundwater resources including: 1) groundwater level decline, 2) aquifer storage reduction, 3) water quality degradation, 4) land subsidence, 5) surface water depletion, and 6) impacts to GDEs. Based on the findings of this impact analysis, Paulsell Project impacts to groundwater resources will be less than significant when compared to County significance thresholds for each criterion. This indicates that the underlying groundwater Subbasin can support the Paulsell Project's water demand, while resulting in an overall reduction in groundwater use compared to existing conditions, by replacing irrigated farmland.

Therefore, in both the local and regional context, the available groundwater within the Subbasin—whether obtained directly from on-site groundwater wells or indirectly from one or more with off-site well owners—is adequate to supply both the construction and/or O&M demands of the Paulsell Project on its own. If obtained from on-site wells, the Paulsell Project would be responsible for compliance with the Stanislaus County Groundwater Ordinance (e.g., well construction permit). For construction and dust control purposes, the Paulsell Project also has the option of trucking water from turnouts from the Delta-Mendota Canal (DPWD) or the California Aqueduct (OFWD), under terms and conditions still being negotiated with DPWD. For potable purposes, the Paulsell Project also has the option of purchasing potable water from a commercial vendor and trucking it to an on-site storage tank.

So long as the Paulsell Project's long-term water demands are sourced from groundwater, the water supply would be sufficient under normal-year, single-dry-year, and multiple-dry-year conditions over a 20-year projection, accounting for the projected water demand of the Paulsell Project in addition to other existing and planned future uses of the identified water supply.

Groundwater has a slower response time to drought conditions, and overall basin pumping is managed under a GSP that is implementing numerous projects and management actions to bring the Subbasin into sustainable yield by 2040. The

Paulsell Project would advance the goals of the GSP by resulting in a substantial decrease in per-acre water use on the site. The Paulsell Project would eventually replace an existing almond orchard that is estimated to use up to 652.1 AF of water per year, compared to up to 2 AFY for the Paulsell Project's O&M demand. Given the Paulsell Project would result in a substantial long-term decrease in the overall water demand of roughly 99% for the Paulsell Project Site, the Paulsell Project would be consistent with the sustainability goals of the applicable GSP. This is especially true during single-dry-year and multiple-dry-year conditions, because DPWD, OFWD, and individual landowners turn to groundwater pumping when allocations of CVP and SWP water are severely curtailed or cut altogether.

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Attachment A

Groundwater Resources Impact Analysis

Groundwater Resources Impact Analysis Paulsell Solar Energy Center Stanislaus County, California

Prepared for:

Crow Creek Solar, LLC

Prepared by:



1630 San Pablo Avenue, Suite 300 Oakland, California 94612 Contact: Trey Driscoll, PG No. 8511, CHG No. 936 Devin Pritchard-Peterson

APRIL 2021

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GROUNDWATER RESOURCES IMPACT ANALYSIS PAULSELL SOLAR ENERGY CENTER

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition				
2010 MND	MND titled Use Permit Application No. 2010-09 and Lot Line Adjustment				
	Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated				
	Negative Declaration				
A&M	A&M Industries, Inc.				
AF	acre-feet				
AFY	acre-feet per year				
amsl	above mean sea level				
APN	Assessor's Parcel Number				
Approved Project	Scatec Westside Solar Ranch				
BESS	battery energy storage system				
bgs	below ground surface				
CEQA	California Environmental Quality Act				
COC	contaminant of concern				
County	County of Stanislaus				
Covanta	Covanta Stanislaus Waste Energy Facility				
Crow Creek Solar	Crow Creek Solar, LLC				
CUP	conditional use permit				
CVHM	Central Valley Hydrologic Model				
DER	Stanislaus County Department of Environmental Resources				
DPWD	Del Puerto Water District				
DWR	California Department of Water Resources				
EC	electrical conductivity				
EPA	U.S. Environmental Protection Agency				
ft ⁻¹	per foot				
ft/d	feet per day				
ft²/d	square feet per day				
GDE	groundwater dependent ecosystem				
GPM	gallons per minute				
GSP	Groundwater Sustainability Plan				
I-5	Interstate 5				
m-1	per meter				
MCL	maximum contaminant level				
m/d	meters per day				
mg/L	milligrams per liter				
MND	mitigated negative declaration				
MW	megawatt				
MV	medium-voltage				
NCCAG	Natural Communities Commonly Associated with Groundwater				
0&M	operations and maintenance				
OFWD	Oak Flat Water District				
Ordinance	County of Stanislaus Groundwater Ordinance				
Original Footprint	382-acre footprint				
Original Project Site	1,132-acre site				
Paulsell Project	Paulsell Solar Energy Center				
PG&E	Pacific Gas and Electric				
SCADA	supervisory control and data acquisition system				

Acronym/Abbreviation	Definition
Scatec Westside Solar Ranch Phase I	173-acres developed of 191-acre site
Solar PV	solar photovoltaic
Subbasin	Delta-Mendota Groundwater Subbasin
SGMA	Sustainable Groundwater Management Act
SWN	State Well Number
SWRCB	California State Water Resources Control Board
SVOC	semi-volatile organic compound
TDS	total dissolved solids
USGS	U.S. Geological Survey
VOC	volatile organic compound



1 Introduction

Crow Creek Solar, LLC ("Crow Creek Solar") proposes to amend the existing conditional use permit ("CUP") for the Scatec Westside Solar Ranch ("Approved Project"), approved by Stanislaus County ("County") in November 2010 and supported by an adopted mitigated negative declaration ("MND") through a County Staff Approval Permit.

The proposed Paulsell Project is designed to generate up to 20 megawatts of electricity on approximately 232 acres and would require support facilities consisting of access roads, fencing, medium-voltage stations, a project collector substation, a battery energy storage system ("BESS"), an overhead transmission line that would connect directly into the existing Pacific Gas and Electric ("PG&E") Crow Creek Switching Station, operations and management ("O&M") building, supervisory control and data acquisition ("SCADA") system, and other ancillary facilities or equipment.

The Paulsell Project would be located on a site covered by an existing MND titled *Use Permit Application No. 2010-09 and Lot Line Adjustment Application No. 2010-10 – Scatec Westside Solar Ranch, Mitigated Negative Declaration* ("2010 MND"). The CUP for the Approved Project (No. 2010-09) allows for the construction, operation, and decommissioning of a solar photovoltaic ("Solar PV") project with a development footprint of approximately 382 acres ("Original Footprint"), located on an approximately 1,132-acre site, which was part of the original Scatec Westside Solar Ranch CUP ("Original Project Site"). The first phase of the Scatec Westside Solar Ranch is currently in operation and consists of approximately 20 megawatts ("MW") on 173 acres ("Scatec Westside Solar Ranch Phase I"). Crow Creek Solar also proposes to change the name of the project previously known as Scatec Westside Solar Ranch – Phase II to Paulsell Solar Energy Center ("Paulsell Project"). The Paulsell Project will be constructed on approximately 232 acres within the Original Project Site covered by the 2010 Scatec Westside Solar Ranch CUP and evaluated in the 2010 MND.

The Paulsell Project includes a solar energy facility similar to the Approved Project. The Original Footprint for the Approved Project was established at 382 acres: Scatec Westside Solar Ranch Phase I is currently operational occupying 173 acres, consequently, 209 acres remain ("Remaining Original Footprint"). The Paulsell Project will include up to a 25% increase in the Remaining Original Footprint, up to approximately 261.25 acres, as allowed under Chapter 21.96.070 of the Stanislaus County Code. However, due to site constraints, approximately 232 acres would be developed. This increase will be contained entirely within the area previously analyzed and approved for the Original Project Site in the 2010 MND. The Paulsell Project also proposes the potential development of additional support facilities, as described above. The development area would accommodate these additional support facilities and are consistent with the uses and potential effects analyzed in the CUP and 2010 MND.

The Paulsell Project Site includes approximately 191 acres of land within the 1,132-acre Original Project Site, located west of Interstate 5 ("I-5"), approximately 8 miles south of the City of Patterson, approximately 1 mile south of the Fink Road Landfill, and approximately 7 miles northwest of the City of Newman, in Stanislaus County, California (Figure 1). Portions of the Paulsell Project Site are currently developed as almond orchards and walnut orchards. Other portions of the Paulsell Project Site include cow pasture, horse pasture, and undeveloped land. The Paulsell Project Site is bordered by the Scatec Westside Solar Ranch Phase I project to the southwest, which is currently in operation. The Paulsell Project Site is also bordered by the Fink Road Landfill and Covanta Waste-To-Energy Facility, Beltran Farms orchards, and cropland to the north; I-5 to the east; and undeveloped land to the northwest, west, and south.

As described in the Paulsell Project's Water Supply Assessment (Dudek 2020a), water from Del Puerto Water District ("DPWD") and/or Oak Flat Water District ("OFWD") would be the primary source of water for both Paulsell Project construction and O&M. However, in the event neither water district is able to provide water for the Paulsell Project,



groundwater would be the source of water supply during construction and operation. Per the requirements of the Stanislaus County Department of Environmental Resources ("DER") Groundwater Ordinance ("Ordinance") adopted in November 2014 (Chapter 9.37 of the Stanislaus County Code), this Groundwater Resources Impact Analysis Report has been prepared to provide information on groundwater resources that will be incorporated into the environmental analysis of the proposed Paulsell Project under the California Environmental Quality Act ("CEQA"). Specifically, this report describes the Paulsell Project development activities and associated groundwater demand, groundwater conditions, and the methods and results of a groundwater resources impact assessment for the proposed Paulsell Project. This analysis evaluates potential impacts to groundwater resources in the event that the full Paulsell Project construction and O&M water demands are sourced from on-site and/or off-site groundwater wells.

2 Project Description

2.1 Project Overview

Crow Creek Solar, LLC proposes to construct and operate an approximately 232 acre solar energy facility located off Davis Road in unincorporated Stanislaus County, southwest of the Fink Road Sanitary Landfill operated by Stanislaus County, west of I-5 and the California Aqueduct, in the Newman/Crows Landing area. The Paulsell Project would be located on the Original Project Site, which encompasses four Assessor's Parcel Numbers (["APNs"] 025-017-019, 026-012-003, 027-017-090, and 027-017-091) with a combined acreage of approximately 1,132 acres (Figure 1). The Project is designed to generate up to 20 MW of electricity and will require support facilities consisting access roads, fencing, medium-voltage ("MV") stations, a BESS, an overhead transmission line that would connect directly into the existing PG&E Crow Creek Switching Station, operations and maintenance ("0&M") building, SCADA system, and other ancillary facilities or equipment. Construction of the Paulsell Project is anticipated to begin in 2022 and occur over an 8-month period.

2.2 Water Demand

The Paulsell Project would require approximately 60 acre-feet ("AF") of water to support construction over an 8-month period. Thereafter, the Paulsell Project would require up to 2 acre-feet per year ("AFY") to support 0&M activities. In total, the estimated water demand for the Paulsell Project over 20 years is 100 AF and over the project life (35 years) is 130 AF. The estimated water demands for each phase of the Paulsell Project is provided in Table 1 and further described below.

Project Phase	Estimated Water Demand Rate	Total Water Demand (AF)	Maximum Monthly Demand (MGM)	Peak Daily Demand (GPM)		
Construction	0.24 AF/acre	60	2.4a	56a		
Operation and Maintenance	2 AFY for 20 years	100	0.05	1.2		

Table 1. Paulsell Project Water Demand

Notes: AF = acre-feet; AFY = acre-feet per year; MGM = million gallons per month; GPM = gallons per minute.

The construction water demand for the Paulsell Project is based on the proposed disturbance footprint because the primary water demand associated with construction is dust control. Based on a water demand factor of 0.24 AF/acre and the Paulsell Project footprint of 232 acres, the construction water demand is estimated to be approximately 60 AF.

The O&M water demand for the Paulsell Project is determined by the volume of water required for panel washing in addition to ongoing water demand for miscellaneous needs (i.e., periodic site maintenance and fire suppression) and the O&M facility. Based on other solar projects within the region of similar size, the estimated water demand for panel washing is 0.6 AFY. Additionally, the estimated water demand for miscellaneous needs is 0.6 AFY, and for the O&M facility is 0.5 AFY. In total, the O&M water demand is anticipated to be 1.7 AFY. However, given the uncertainty associated with these water demands, a permanent O&M water demand of 2 AFY was assumed for the purposes of analysis in the Paulsell Project's Water Supply Assessment (Dudek 2020a).

a Assumes 8-month construction period and pumping 24 hours per day, 7 days per week.

Groundwater for construction and O&M would be sourced from an existing or new on-site well, or existing off-site well(s). This Groundwater Resources Impact Analysis Report includes an assessment of potential impacts to groundwater resources if groundwater were sourced from an on-site well or nearby off-site well(s).

During a Phase I Environmental Site Assessment of Beltran Ranch conducted in 2018 (Dudek 2018), four groundwater supply wells were observed during the site reconnaissance, two of which were within the Original Project Site (Figure 1). No additional information about the on-site wells is available. Thus, for analysis purposes, the existing on-site well located furthest to the east is used to assess potential impacts to groundwater resources associated with on-site groundwater extraction.

Two existing off-site groundwater wells in close proximity the Paulsell Project site have been identified that could be pumped to satisfy Paulsell Project water demands. The two wells include Sandhu Farms Well (Well 54) located at APN 027-003-067 (360-acre parcel) off Fink Road east of the California Aqueduct, and Beltran Farms Well located at APN 027-017-036 (108-acre parcel) off Davis Road between I-5 and the California Aqueduct (Figure 1). A well log is available for the Beltran Farms Well and is included in Appendix A. According to the well log, the Beltran Farms Well is 12-inches in diameter, 500 feet deep, and screened from 80 to 360 feet below ground surface ("bgs"), and 400 to 480 feet bgs. The Beltran Farms Well is reported to produce up to 2,000 gallons per minute ("GPM") and the Sandhu Farms Well is reported to produce up to 200 GPM (Beltran, pers. comm. 2021).

2.3 Applicable Regulations

Development of groundwater resources to support the Paulsell Project must comply with the County Groundwater Ordinance in addition to the requirements of the Groundwater Sustainability Plan ("GSP") for the groundwater basin in accordance with the Sustainable Groundwater Management Act ("SGMA") of 2014. The Paulsell Project site is located within the northwestern portion of the Delta-Mendota Groundwater Subbasin ("Subbasin"), as defined by the California Department of Water Resources ("DWR"). The Subbasin is designated as a high priority basin and as being in a state of critical overdraft by DWR. This designation means that it is subject to the requirement to prepare a GSP under SGMA. The Final Draft GSP for the Northern and Central Delta-Mendota Regions was adopted in 2019 and GSP implementation began in February 2020.

The County Groundwater Ordinance outlines prohibitions and requirements for permitting wells with the objective to support sustainable groundwater extraction. Under the Ordinance, unless otherwise exempt, an applicant must demonstrate that groundwater extraction from a well will not cause, or substantially contribute to, any of the undesirable results listed in Section 97.030 (9) of the Ordinance and defined in SGMA. Per the Ordinance, undesirable results may include the following:

- i. Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply if continued over the planning and implementation horizon. Overdraft during a period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and recharge are managed as necessary to ensure that reductions in groundwater levels or storage during a period of drought are offset by increases in groundwater levels or storage during other periods.
- ii. Significant and unreasonable reduction of groundwater storage.
- iii. Significant and unreasonable degradation of water quality, including the migration of contaminant plumes that impair water quality.
- iv. Significant and unreasonable land subsidence that substantially interferes with surface land uses.



v. Surface water depletions that have significant and unreasonable adverse impacts on the beneficial uses of the surface water.

If an applicant fails to demonstrate that proposed extractions will not substantially contribute to any undesirable results, the applicant is provided the opportunity to submit additional data, accept mitigation measures, or amend their application.





3 Project Setting

3.1 Existing Site Conditions and Topography

The Paulsell Project site is located in the eastern foothills of the Diablo Mountain Range at the western edge of the San Joaquin Valley. The topography of the Original Project Site consists of lowland and scattered rolling hills with an overall slope to the east. The elevation of the Original Project Site ranges from approximately 260 feet above mean sea level ("amsl") along the eastern boundary to approximately 460 feet amsl along the western boundary. Portions of the Original Project Site are currently developed as walnut and almond orchards. The Original Project Site is bordered by undeveloped rangeland to the east, south, and west, and agricultural land and the Fink Road Landfill to the north.

3.2 Climate

The climate of the Original Project Site is Mediterranean, with warm, dry summers and cool, wet, winters. Precipitation varies seasonally and from year to year, with the majority of precipitation received between October and April. According to precipitation data recorded at the Newman, California station (Station No. 046168) from 1902 to 2020, the average annual precipitation in the Project area is approximately 10.7 inches per year (WRCC 2020). Average temperatures also vary within the region by season. Mean maximum temperatures in the summer months reach the high-90s (degrees Fahrenheit ["°F"]), while mean minimum temperatures in the winter months drop into the mid- to high-30s°F. Temperatures occasionally fall below freezing in the fall, winter, and spring (WRCC 2020).

3.3 Surface Hydrology

Drainage from the Original Project Site is generally toward the northeast/east through overland flow and constructed agricultural ditches. Drainage carried by these ditches is conveyed under I-5, east of the site, through two culverts that connect to a series of channels and ditches, which are tributary to the San Joaquin River, and ultimately, San Francisco Bay, a traditional navigable water of the United States. Crow Creek runs along a portion of the southern boundary of the Original Project Site (Figure 1). Crow Creek is classified by the U.S. Geological Survey ("USGS") as an intermittent stream.

3.4 Hydrogeology

3.4.1 Groundwater Basin

The Original Project Site is located in the Delta-Mendota Groundwater Subbasin (DWR Basin No. 5-022.07) of the San Joaquin Valley Groundwater Basin (Figure 2). The Delta-Mendota Groundwater Subbasin lies within the Great Central Valley of California, a broad structural trough bounded by the tilted block of the Sierra Nevada on the east and the complexly folded and faulted Coast Ranges on the west. The western boundary of the Subbasin is defined by the areal extent of unconsolidated to semi-consolidated sedimentary deposits that are bounded by Tertiary and older marine sediments of the Coast Ranges. The northern boundary begins just south of Tracy in San Joaquin County. The eastern boundary generally follows the San Joaquin River and Fresno Slough. The southern boundary is near the small town of San Joaquin (DWR 2006).

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Water-bearing formations in the Delta-Mendota Groundwater Subbasin consist of the Tulare Formation, alluvium, and terrace and flood-basin deposits. The cumulative thickness of these deposits increases from less than a few hundred feet near the Coast Range foothills on the west to many thousands of feet along the eastern margin of the Subbasin. The Subbasin aquifer system can be generally divided into two primary water producing zones—an upper unconfined to semi-confined aquifer (Upper Aquifer), and a lower confined aquifer (Lower Aquifer). The two aquifer zones are separated by an intervening aquitard known as the Corcoran Clay Member (Corcoran Clay) of the Tulare Formation. The Corcoran Clay is a regional aquitard that extends through much of the Subbasin, although there are areas of the basin where the unit is thin or nonexistent (SLDMWA 2019; USGS 2009). The total storage capacity of the Subbasin is estimated to be 30.4 million AF to a depth of 300 feet, and 81.8 million AF to the base of fresh groundwater (DWR 2006). Average groundwater well yields in the Subbasin range from 800 to 2,000 GPM (DWR 2006). The primary source of groundwater recharge is from percolation of applied irrigation water, although some mountain front recharge does occur along the western boundary of the Subbasin due to runoff from the Coast Ranges (DWR 2006; SLDMWA 2019). Applied water recharge to the Subbasin is estimated to be 74,000 AFY and natural recharge is approximately 8,000 AFY (DWR 2006).

The Original Project Site is located at the western edge of the Subbasin in the Coast Range foothills where the total thickness of the alluvial deposits is approximately a few hundred feet and sediments are generally finer-grained than those toward the eastern side of the Subbasin (USGS 2009). Based on review of well completion reports for wells drilled in the Paulsell Project vicinity, the water-bearing deposits that underly the Original Project Site consist primarily of sand and gravel interbedded with clay and silt. Well depths range from 100 to 500 feet for an average well depth of approximately 300 feet. Well yields were not reported in the well logs reviewed. The Corcoran Clay, as mapped by the USGS, underlies the eastern edge of the Original Project Site but is not present where the proposed on-site production well is located (Figure 2). The Corcoran Clay does, however, underly the surrounding area and is present at the location of both proposed off-site production wells (Figure 2). In the vicinity of the Original Project Site and proposed off-site production wells, the Corcoran Clay unit is approximately 20–40 feet thick and located at a depth of approximately 200 feet bgs (Figure 2).

3.4.2 Aguifer Properties

The hydraulic properties of the Subbasin vary by location and aquifer unit (SLDMWA 2019; USGS 2009). Sediments on the western side of the Subbasin derived from the Coast Range shales and marine deposits tend to be finergrained than sediments on the eastern side sourced from granitic parent rock of the Sierra Nevada (SLDMWA 2019; USGS 2009). The hydraulic conductivity of the coarse grained Coast Range sands in the central San Joaquin Valley is estimated to be 31 feet per day ("ft/d"), and of the Sierra Nevada sands is 104 ft/d (Belitz and Phillips 1995). In comparison, in the northeastern San Joaquin Valley aquifer hydraulic conductivity is estimated to range from 6.5 to 820 ft/d (USGS 2009). The estimated hydraulic conductivity of fine-grained sediments in the central San Joaquin Valley is 4×10^{-3} ft/d (Belitz and Phillips 1995). The estimated vertical hydraulic conductivity of the Corcoran Clay is 6.6×10^{-6} ft/d (USGS 2009). The average transmissivity of the Subbasin is estimated to be approximately 14,600 square feet per day ("ft²/d"; SLDMWA 2019). The estimated specific yield of the Subbasin is 0.118 (DWR 2006). The specific storage of the confined aquifer (Lower Aquifer) is estimated to range from 7.5×10^{-6} to 1.0×10^{-6} per foot ("ft¹"; USGS 2009), for an arithmetic average specific storage of approximately 4.3×10^{-6} ft¹.

Estimates of aquifer hydraulic properties from field pumping or slug tests for the Original Project Site are not available. The Original Project Site falls within the active model domain of the Central Valley Hydrologic Model ("CVHM") developed by the USGS (USGS 2009). Aquifer hydraulic properties for the Original Project Site were extracted from the CVHM and compared to information contained in published reports.

The CVHM consists of 43,218 grid cells with a grid cell spacing of 1 square mile. The CVHM has 10 model layers, each assigned a thickness, hydraulic conductivity, and specific storage in the International System of Units. At the Original Project Site, model layer 1 is thin (less than 2.1 meters or 6.9 feet) to absent, and model layers 2 and 3 represent the uppermost approximately 97.3-153.2 meters (319.2-502.6 feet) of aquifer sediments. For the four model grid cells that the Original Project Site primarily falls within, the arithmetic average aquifer hydraulic conductivity of model layers 2 and 3 is approximately 83.9 meters per day ("m/d"; 275.3 ft/d) and the average specific storage is 1.9×10^{-6} per meter ("m-1"). This translates to an arithmetic average aquifer transmissivity of approximately 17,243 ft²/d and storativity of 1.2×10^{-4} when the hydraulic conductivity/specific storage for each model grid cell layer is multiplied by the corresponding layer thickness and converted to the imperial system of units, which are similar to the average transmissivity and storativity values of the Subbasin (SLDMWA 2019).

3.4.3 Groundwater Levels and Flow

Groundwater flow in the Delta-Mendota Subbasin is generally towards the northeast and the San Joaquin River. Groundwater levels in the Subbasin reached historical low levels during the height of the 2012–2016 drought. Following the drought, groundwater levels rebounded to near historical high levels as a result of wetter conditions and a decreased dependence on groundwater to meet irrigation demands due to increased surface water allocations (SLDMWA 2019).

Groundwater levels in the vicinity of the Original Project Site and proposed Paulsell Project production wells are reported to range from approximately 2 to 320 feet bgs, with most water level measurements in the 50–150 feet bgs range (Figure 3). The closest well to the Paulsell Project with recent groundwater level data (State Well Number ["SWN"] 06S08E29E001M) is located approximately 0.8 miles northeast of the Original Project Site (Figure 2). Water levels in SWN 06S08E29E001M reached a historical low of approximately 315 feet bgs in March 2016. Since March 2016, groundwater levels in SWN 06S08E29E001M have steadily increased to approximately 187 feet bgs in October 2020 (Figure 3). The lowest groundwater level recorded in the vicinity of the Original Project Site and proposed Paulsell Project production wells was approximately 321 feet bgs in December 2013 at SWN 06S08E19H001M, located approximately 1.7 miles northeast of the Original Project Site (Figures 2 and 3). The majority of water level measurements at SWN 06S08E19H001M have been between 56 and 113 feet bgs (Figure 3). In July 2020, groundwater levels in monitoring wells at the Fink Road Landfill ranged from 10.6 to 99.4 feet bgs (SCS Engineers 2020). The Fink Road Landfill monitoring wells range in depth from 18 to 128 feet bgs, with most of the wells completed at depths between 50 and 100 feet bgs (SCS Engineers 2020).

3.4.4 Groundwater Quality

Groundwater quality in the Delta-Mendota Subbasin varies by location and depth. Concerns related to groundwater quality are largely related to non-point sources and/or naturally occurring constituents. Primary constituents of concern within the Subbasin are nitrate as nitrogen (nitrate as N), total dissolved solids ("TDS"), and pesticides. Additional constituents of concern include selenium and boron (SLDMWA 2019). Nitrate concentrations observed in wells throughout the Subbasin are predominantly below the primary maximum contaminant level ("MCL") of 10 milligrams per liter ("mg/L"); however, several areas with elevated concentrations above the primary MCL exist. In the Upper Aquifer, areas with elevated nitrate concentrations above 10 mg/L include Los Banos, and along Highway 33 between Newman and Patterson. In the Lower Aquifer, nitrate concentrations above the primary MCL are generally in locations where the Corcoran Clay is thin or nonexistent, especially west of Newman, near Patterson, and northwest of Westley (SLDMWA 2019). TDS concentrations in the majority of wells in the Subbasin are below the secondary MCL of 1,000 mg/L, except in the southern part of the Subbasin west of Mendota where a large

number of shallow wells (<50 feet) in the Upper Aquifer have concentrations greater than 3,000 mg/L. In the Lower Aquifer, TDS concentrations are largely stable, though have been found to exceed 1,000 mg/L in some locations, most notably in the southern part of the Subbasin west of Mendota (SLDMWA 2019). Pesticides, including ethylene dibromide, dibromochloropropane, and simazine, have been detected in wells in the Subbasin at concentrations that exceed threshold values established by the California State Water Resources Control Board ("SWRCB") and U.S. Environmental Protection Agency ("EPA"). The majority of pesticide detections and exceedances have occurred in wells located in the northern part of the Subbasin, from south of Gustine to north of Patterson (SLDMWA 2019). Selenium and boron are naturally occurring in the Subbasin, and high concentrations of both constituents are of particular concern in the southern portion of the Subbasin (SLDMWA 2019). Maximum concentrations of selenium in the southern portion of the Subbasin have historically exceeded the MCL of 0.05 mg/L, and boron concentrations have been detected above 2 mg/L, a level which is considerably higher than the California Action Level of 1.0 mg/L and agricultural goal of 0.7 mg/L (SLDMWA 2019).

Recent groundwater quality data are available for several wells in the vicinity of the Original Project Site and proposed Paulsell Project production wells, including 25 monitoring wells at the Fink Road Landfill and three public supply wells located off Fink Road, east of I-5 and the California Aqueduct (Figure 4). Groundwater quality at the Fink Road Landfill is monitored quarterly in up to 25 monitoring wells for a suite of constituents including electrical conductivity ("EC"), nitrate, and TDS. A summary of minimum and maximum values for select constituents from recent water quality monitoring at the Fink Road Landfill, as reported in the *Third Quarter and Second Semi-Annual 2020 Monitoring Report Fink Road Landfill Stanislaus County, California*, are presented in Table 2.

Table 2. Summary of Fink Road Landfill Groundwater Quality for 2020 Monitoring Period

Parameter	Units	2020 Minimum	2020 Maximum	MCL
pН	pH Units	6.22	8.42	6.5-8.5a
Electrical Conductivity	µmhos/cm	513	4,390	900/1,600/2,200b
Turbidity	NTU	0.0	1,000	5
Temperature	°C	17.3	27.5	_
Calcium	mg/L	3.9	340	_
Magnesium	mg/L	13	220	_
Sodium	mg/L	43	350	_
Potassium	mg/L	1.3	43	_
Bicarbonate Alkalinity	mg/L	44	470	_
Carbonate Alkalinity	mg/L	5.1	110	_
Chloride	mg/L	24	330	250/500/600b
Nitrate (as N)	mg/L	5.1	27	10
Sulfate	mg/L	6.7	1,700	250/500/600b
Total Dissolved Solids	mg/L	320	3,500	500/1,000/1,500b

Source: SCS Engineers 2020.

Notes: — = not applicable; MCL = maximum contaminant level; °C = degrees Celsius; mg/L = milligrams per liter; umhos/cm = micromhos per centimeter; NTU = nephelometric turbidity units.

Water quality analyses indicate that several of the constituents analyzed were above U.S. EPA and State of California MCLs for drinking water including EC, turbidity, chloride, nitrate, sulfate, and TDS, which were measured at concentrations that exceed the recommended, upper, and, in some cases, short term MCLs. In addition, several volatile organic compounds and ("VOCs") and semi-volatile organic compounds ("SVOCs") were detected in monitoring wells at

a Secondary MCL

Recommended/Upper/Short Term MCL.

the Fink Road Landfill; however, monitoring results indicate that no new releases of contaminants of concern ("COCs") appear to have occurred from the site during the 2020 monitoring period (SCS Engineers 2020).

Groundwater quality data are available for three public supply wells located off Fink Road approximately 1.1 miles northeast of the Original Project Site (Figure 4). The three wells include two Covanta Stanislaus Waste Energy Facility ("Covanta") wells, Well 1 and Well 2, and one A&M Industries, Inc. ("A&M") well, West Well (SWRCB 2021). The top of the screened interval in Covanta Well 1 is 280 feet bgs, in Covanta Well 2 is 400 feet bgs, and in A&M West Well is 135 feet bgs (SWRCB 2021). The bottom of the screened intervals and total well depths are not reported. Water quality results for select constituents measured in 2020 for the three wells are presented in Table 3.

Table 3. Groundwater Quality for Nearby Municipal Supply Wells

Parameter	Units	Covanta Well 1	Covanta Well 2	A&M West Well	MCL
рН	pH Units	7.1	7.2	8.0	6.5-8.5ª
Specific Conductance	μS/cm	2,530	2,320	480	900/1,600/2,200b
Turbidity	NTU	0.2	0.8	0.21	5
Total Alkalinity	mg/L as CaCO3	173	175	180	_
Calcium	mg/L	24	83	43	_
Magnesium	mg/L	16	63.2	18	_
Sodium	mg/L	52.2	182	27	_
Potassium	mg/L	4.8	5.3	2.4	_
Chloride	mg/L	85.6	80.4	16	250/500/600b
Nitrate (as N)	mg/L	8.3	6.77	5.3	10
Sulfate	mg/L	759	688	14	250/500/600b
Total Dissolved Solids	mg/L	1,570	1,550	320	500/1,000/1,500b

Source: SCS Engineers 2020.

Notes: — = not applicable; MCL = maximum contaminant level; mg/L = milligrams per liter; uS/cm = micromsiemens per centimeter; NTU = nephelometric turbidity units; $CaCO_3$ = calcium carbonate.

Water quality analyses for Covanta Well 1 and Well 2 indicate all of the constituents analyzed were below MCLs for drinking water, with the exception of specific conductance, sulfate, and TDS, which were measured at concentrations that exceed the upper or short term MCLs. All constituents measured in A&M West Well were below the primary and secondary MCLs for drinking water.

A database search for reported hazardous waste cleanup sites near the Original Project Site and proposed Paulsell Project production wells (within 1-mile per ASTM Standard 1527) was completed. No open or closed hazardous waste cleanup sites are located within 1-mile of the proposed Paulsell Project production wells (Figure 4). The Fink Road Landfill (L10006135056), which is located approximately 0.65 miles southwest of the Sandhu Farms Well, approximately 0.5 miles north of the on-site production well, and greater than 1-mile from the Beltran Farms Well, is the only potential source of groundwater contamination in the area (Figure 4). No concentrated animal feeding operations are located within 1 mile of the Original Project Site or proposed Paulsell Project production wells (Figure 4). No known sewer lines, cisterns, septic disposal systems, for animal confinements are located within 250 feet of the proposed Paulsell Project production wells.



Secondary MCL

b Recommended/Upper/Short Term MCL.

The Fink Road Landfill site is a California Code of Regulations ("CCR") Title 27 municipal solid waste landfill that has been in operation since 1965. No potential contaminants of concern associated with the Fink Road Landfill are specified, although Waste Management Unit LF-1, a pre-Subtitle D landfill at the site that has been closed since August 1993, is known to have VOC releases to groundwater (SCS Engineers 2020). Two additional open cleanup sites are located in the vicinity of the proposed Paulsell Project production wells but at a distance of greater than 1-mile. The two sites include the Crow's Landing Naval Auxiliary Landing Field Administration Area Plume (T0609906360) and Tosco-Patterson Pump Station NP139 (SL0609981817) cleanup sites. The potential contaminants of concern associated with the Crow's Landing Naval Auxiliary Landing Field site include benzene, dichloroethane ("DCA"), diesel, gasoline, and other chlorinated hydrocarbons. No potential contaminants of concern associated with the Tosco-Patterson Pump Station are specified. Both sites are down-gradient from the Original Project Site and proposed Paulsell Project production wells (SWRCB 2021).

3.5 Land Subsidence

The compaction or collapse of the pore spaces within the fine-grained sediments of an aquifer system results in the permanent loss of aquifer storage (Borchers and Carpenter 2014). Inelastic (irreversible) subsidence in the Delta-Mendota Subbasin is caused mainly by pumping groundwater from below the Corcoran Clay (SLDMWA 2019). The highest levels of subsidence in the Subbasin in recent years have been in the southern portion of the Subbasin, including the area east of Los Banos and the Tranquility Irrigation District area (SLDMWA 2019).

The nearest University NAVSTAR Consortium ("UNAVCO") continuous global positioning system station to the Original Project Site is station P259, located approximately 3 miles northeast of the Original Project Site near Highway 33 (Figure 5). Since the beginning of the measurement record in July 2005, land surface elevation at station P259 has decreased by approximately 50 millimeters (2 inches), with the largest vertical change observed between 2014 and 2017 during the last major drought (UNAVCO 2021).

DWR provides vertical displacement data for the Delta-Mendota Subbasin derived from InSAR through DWR's SGMA Data Viewer. The TRE Altamira InSAR dataset is collected by the European Space Agency from the Sentinel-1A satellite and processed by TRE Altamira. According to the InSAR dataset, between June 2015 and September 2019 the Original Project Site experienced a maximum negative vertical displacement (subsidence) of approximately -0.02 feet (Figure 5). The greatest subsidence in the vicinity of the Original Project Site and proposed on-site and off-site production wells has occurred at the Fink Road Landfill, which has experienced a maximum subsidence of -0.08 feet since June 2015, although the subsidence may be partially attributable to landfill activities (Figure 5).

4 Impact Evaluation

4.1 Groundwater Level Decline

When water is extracted from a well, groundwater levels around the well decline creating a cone of depression. The cone of depression is deepest at the well and extends radially to a distance away from the well where water-level decline (or drawdown) is effectively zero. Groundwater extraction for Paulsell Project construction and O&M will result in groundwater level drawdown in the vicinity of the Paulsell Project production well. To evaluate the impact of Paulsell Project pumping on local groundwater levels, an analytical approach to estimate drawdown induced by well extraction at various distances from the Paulsell Project production well was employed. The following estimate of groundwater drawdown at various distances from the production well induced by Paulsell Project pumping relies on the Cooper-Jacob approximation of the Theis non-equilibrium flow equation (USGS 1962):

$$s = \frac{264Q}{T} log_{10} \frac{0.3Tt}{r^2 S}$$

Where:

s = predicted drawdown (feet)

Q = average pumping rate (ft³/d)

 $T = transmissivity (ft^2/d)$

t = time since pumping started

r = distance from pumping well (feet)

S = coefficient of storage (dimensionless)

The Cooper-Jacob method was verified by validating that dimensionless time (u) is sufficiently small (u < 0.05) using the equation as follows:

$$u = \frac{r^2 S}{4Tt}$$

Where:

u = time (dimensionless)

r = distance from pumping well (feet)

S = coefficient of storage (dimensionless)

 $T = transmissivity (ft^2/d)$

t = time since pumping started

During a constant rate aquifer test, drawdown data plot on a straight line except at large values of u, or small values of 1/u. At values of u less than about 0.05, the Cooper-Jacob approximation is valid (Driscoll 1986).

Values for aquifer transmissivity and storativity used in the calculations were obtained from previous studies. A transmissivity value of $14,600 \, \text{ft}^2/\text{d}$ was used based on the average transmissivity of the Subbasin (SLDMWA 2019). A storativity value of $0.001 \, \text{was}$ used based on the product of the average specific storage of the Subbasin $(4.3 \times 10^{-6} \, \text{ft}^{-1})$ and estimated saturated thickness of the aquifer (300 feet) in the vicinity of the proposed Paulsell Project production wells (USGS 2009).

Three separate wells have been identified that could individually satisfy Paulsell Project water demands. The three wells include an existing or new on-site well, Sandhu Farms Well, or Beltran Farms Well. Distance-drawdown calculations were completed assuming the aquifer properties at each well location were the same, and each well were individually pumped to satisfy all Paulsell Project water demands. Using the equations and aquifer properties defined above, groundwater level decline after one year of Paulsell Project pumping for construction (60 AF) is projected to be less than 5 feet at the well, and 0.5 feet at a distance of approximately 180 feet from the well (Figure 6). Annual groundwater level decline due to Paulsell Project pumping for 0&M (2 AFY) is projected to be less than 0.5 feet at the well. Similarly, when the total estimated water demand for the proposed Paulsell Project (100 AF) is amortized over 20 years, groundwater level decline after 20 years of pumping is projected to be less than 0.5 feet at the well. Therefore, groundwater extraction for Paulsell Project construction, assuming the entire construction water demand is satisfied by groundwater pumped from the Subbasin, is predicted to have the greatest impact on groundwater levels. A summary of projected drawdown associated with Paulsell Project construction is provided in Table 4 and shown in Figure 6.

Distance to Distance to Drawdown at Drawdown at Drawdown at 5 Feet 0.5 Feet **Nearest** Nearest **Nearest Potential** Well Drawdown Infrastructureb **GDEc** Drawdown Property Linea On-Site Well 0 180 0.60 0.33 0.64 0 180 0.57 0.49 0.21 Sandhu Farms Well 0 180 0.46 0.50 0.30 Beltran Farms Well

Table 4. Projected Drawdown Associated with Project Construction

Notes: All units are in feet; GDE = groundwater dependent ecosystem.

The simulation presented is a conservative estimate (i.e., worst case scenario) because it assumes the total construction water demand would be satisfied by groundwater, when in fact the Paulsell Project has considered a combination of both groundwater and surface water to meet Paulsell Project demands. Additionally, the distance-drawdown calculations do not take in to account the influence of groundwater recharge and aquifer boundary conditions on the magnitude of drawdown. The Paulsell Project is located at the western margin of the Delta-Mendota Subbasin where recharge rates would be expected to be highest due to mountain front recharge from the Coast Ranges in addition to recharge from applied irrigation water (DWR 2006; SLDMWA 2019). Groundwater extraction for Paulsell Project construction would be temporary, and when pumping stops groundwater levels will recover. Groundwater levels in wells nearby the Paulsell Project declined during the last drought but have since recovered to near pre-drought levels (Figure 3). The values for aquifer transmissivity and storativity used in the calculations rely on average reported values for the Subbasin and not site-specific data. Thus, it is recommended that if groundwater is pumped from one of the three wells identified, monitoring of groundwater level drawdown and recovery is performed such that site-specific values of aquifer transmissivity and storativity may be obtained and used to update the analysis herein.

Lastly, the Paulsell Project would not result in the development of impervious surfaces on the 1,132-acre Original Project Site, other than minor spatial requirements for installation of necessary support facilities such as the 0&M building and BESS. The majority of the Original Project Site would be developed with solar arrays which would not result in impervious surface area development, and a portion of the Original Project Site would be left undeveloped. Therefore, groundwater recharge would not be impeded following implementation of the Paulsell Project.

a Distance from nearest property line to on-site well is approximately 50 feet, to Sandhu Farms Well is 70 feet, and to Beltran Farms Well is 300 feet.

Nearest infrastructure to all three proposed Project production wells are natural gas and liquid pipelines. Distance from nearest pipeline to on-site well is approximately 1,670 feet, to Sandhu Farms Well is 210 feet, and to Beltran Farms Well is 180 feet.

Nearest potential GDE to on-site well is 30 feet, to Sandhu Farms Well is 7,040 feet, and to Beltran Farms Well is 2,250 feet.

Based on the above information, Paulsell Project impacts to local groundwater levels will be less than significant. A drawdown of a few feet or less as predicted would not be expected to result in a significant reduction in aquifer storage, degradation in groundwater quality, land subsidence, surface water depletion, or impacts to groundwater dependent ecosystems ("GDEs"), as discussed below.

4.2 Aguifer Storage Reduction

Groundwater extraction for Paulsell Project construction and O&M will result in a reduction in groundwater in storage. To evaluate the impact of Paulsell Project pumping on groundwater in storage, the following equation was used to calculate the available aquifer storage beneath the property on which each proposed Paulsell Project production well is located:

Storage Capacity = Area of Property \times Aquifer Thickness \times Aquifer Specific Yield

Where:

Area of Property = size of contiguous owned property where well is located (acres)

Aquifer Thickness = saturated thickness of aquifer (feet)

Aquifer Specific Yield = 0.25 (dimensionless)

The calculated aquifer storage beneath the property on which each proposed Paulsell Project production well is located is provided in Table 5. In addition, the aquifer storage reduction based on the cumulative Paulsell Project groundwater extraction volume of 100 AF as a percentage of total groundwater in storage is provided in Table 5.

Well	Property Size (Acres)a	Aquifer Thickness (Feet)	Aquifer Specific Yield	Aquifer Storage (AF)	Aquifer Storage Reduction (%)b		
On-Site Well	1,132	300	0.25	79,725	0.13		
Sandhu Farms Well	300	300	0.25	22,500	0.44		
Beltran Farms Well	180	300	0.25	13,500	0.74		

Table 5. Calculated Aquifer Storage and Storage Reduction

Notes: AF = acre-feet.

As shown in Table 5, the cumulative Paulsell Project extraction volume after 20 years of 100 AF as a percentage of the total groundwater in storage is significantly less than the 10% significance threshold set forth in the Ordinance. Proposed groundwater extraction is estimated to result in a reduction of groundwater in storage of approximately 0.75% or less depending on which well groundwater is extracted from. Based on the above information, Paulsell Project impacts to groundwater in storage will be less than significant.

4.3 Water Quality Degradation

Groundwater extraction for Paulsell Project construction and O&M has the potential to degrade water quality if the volume of groundwater in storage is significantly reduced or if the production well used to satisfy Paulsell Project demands acts as a conduit for water exchange between shallow and confined aquifers of different quality.

a Acreage of contiguous property owned by Sandhu Farms and Beltran Farms may be greater than reported in table.

b Change in aquifer storage assumes Project groundwater demand of 100 acre-feet.

The Original Project Site and proposed Paulsell Project production wells are in an area of the Subbasin where the Corcoran Clay layer is thin; however, semi-confined to confined aquifer conditions are still known to exist. Groundwater quality varies in the vicinity of the proposed Paulsell Project production wells, but in general is reported to exceed MCLs for drinking water for specific conductance, sulfate, and TDS in both shallow and deep aquifer units.

The Fink Road Landfill is the only potential source of groundwater contamination in the vicinity of the proposed Paulsell Project production wells (Figure 4). The Fink Road Landfill is known to have historically had releases of VOCs and SVOCs to groundwater; however, 2020 groundwater monitoring results indicate that no new releases of COCs appear to have occurred from the site (SCS Engineers 2020).

A well completion report is available for the Beltran Farms Well (Appendix A). The well log indicates that a cement annular seal was installed from ground surface to a depth of 25 feet bgs. The seal is designed to protect the well from surface water contamination. The Beltran Farms Well is screened from 80 to 360 feet bgs, and 400 to 480 feet bgs, suggesting that the well is screened in both the unconfined aquifer system overlying the Corcoran Clay (if present) and confined aquifer system underlying the Corcoran Clay.

Based on the above information and conclusions of the analyses presented in Sections 4.1 and 4.2, no significant impacts to groundwater quality as a result of Project pumping are anticipated.

4.4 Land Subsidence

Groundwater extraction for Paulsell Project construction and O&M has the potential to cause land subsidence if groundwater level drawdown results in the dewatering and collapse of fine-grained sediments. For additional land subsidence to occur, beyond what has occurred historically, groundwater levels must drop below that of historical lows for a significant period time.

Measured land subsidence in the vicinity of the proposed Paulsell Project production wells totaled approximately 2-inches in the last 15 years (UNAVCO 2021). The largest land subsidence occurred at the Fink Road Landfill where the land surface elevation decreased by -0.08 feet between 2015 and 2019, although the change in elevation may be partially attributable to landfill activities (Figure 5).

Groundwater levels in the vicinity of the proposed Paulsell Project production wells reached a historical low of approximately 321 feet bgs in December 2013 at SWN 06S08E19H001M, but have recovered and remained stable around 100–200 feet bgs since that time (Figure 3).

Based on the minimal land subsidence that has historically occurred in the vicinity of the proposed Paulsell Project production wells, current groundwater levels, and the predicted groundwater level decline at the nearest infrastructure to the Paulsell Project pumping well of 0.5 feet or less, Paulsell Project pumping is not anticipated to contribute to land subsidence or impact nearby infrastructure.

4.5 Surface Water Depletion

Groundwater extraction for Paulsell Project construction and O&M has the potential to deplete surface water in groundwater-connected streams or reservoirs.

The nearest streams to the proposed Paulsell Project production wells are Salado Creek and Crow Creek located to the north and south of the wells, respectively. Both are intermittent streams that originate in the Diablo Mountain Range and flow east toward the San Joaquin Valley. No known groundwater-connected streams or reservoirs are located within 1-mile or in the vicinity of the wells. Based on the analyses presented in Sections 4.1 and 4.2, no significant impacts to surface water bodies as a result of Paulsell Project pumping are expected.

4.6 Impacts to Groundwater Dependent Ecosystems

Groundwater dependent ecosystems are natural plant and animal communities that rely on water provided entirely or in part by groundwater from an aquifer (Rohde et al. 2018). GDEs are addressed by the Ordinance and SGMA as they may be adversely impacted by the lowering of groundwater levels related to groundwater extraction. Among the criteria used to identify if a community is in fact a GDE is the depth to groundwater below land surface in the vicinity of the mapped habitat. Based on the average rooting depth of common phreatophytes, GDEs may exist in areas where groundwater levels are within 30 feet of land surface (Rohde et al. 2018).

According to the Natural Communities Commonly Associated with Groundwater ("NCCAG") dataset, the closest potential GDEs to the proposed Paulsell Project production wells are located along Salado and Crow creeks, and along the edge of the agricultural fields at the Original Project Site (Figure 7). The nearest potential GDE to the proposed on-site production well is a riverine, unknown perennial, unconsolidated bottom, semi-permanently flooded wetland located approximately 30 feet north of the well (Figure 7). Drawdown beneath the vegetation due to Paulsell Project construction pumping is predicted to be 0.64 feet. The nearest potential GDE to the Sandhu Farms Well is a riverine, unknown perennial, unconsolidated bottom, semi-permanently flooded wetland community located near Crow Creek approximately 7,040 feet southwest of the well (Figure 7). Drawdown beneath the wetland due to Paulsell Project construction pumping is predicted to be 0.21 feet. The nearest potential GDE to the Beltran Farms Well is a riverine, unknown perennial, unconsolidated bottom, semi-permanently flooded wetland community located on Crow Creek approximately 2,250 feet southwest of the well (Figure 7). Drawdown beneath the wetland due to Paulsell Project construction pumping is predicted to be 0.30 feet.

As described above, drawdown beneath the nearest potential GDE to the proposed Paulsell Project on-site production well as a result of pumping for Paulsell Project construction is predicted to be 0.64 feet, which is greater than the significance threshold of 0.5 feet set forth in the Ordinance. However, during field surveys of the Original Project Site conducted by Dudek between March and July 2020, no wetland features were identified in the vicinity of the proposed on-site production well (Dudek 2020b). Additionally, as discussed in Section 4.1, the distance-drawdown calculations are a conservative estimate of total predicted drawdown and do not take into account the influence of groundwater recharge and aquifer boundary conditions on the magnitude of drawdown. Because the proposed Paulsell Project production wells will likely draw predominately from below the Corcoran Clay, drawdown in the shallow aquifer system is expected to be negligible. Current groundwater levels in wells nearby the proposed Paulsell Project production wells are approximately 100 to 200 feet bgs, with the exception of a few shallow monitoring wells at the Fink Road Landfill.



5 Conclusion

This Groundwater Resources Impact Analysis Report describes the Paulsell Solar Energy Center development activities and associated groundwater demand, groundwater conditions, and the methods and results of a groundwater resources impact assessment for the proposed Paulsell Project. Per the Stanislaus County Groundwater Ordinance and SGMA, the analysis investigated whether the proposed Paulsell Project would cause undesirable results which may include one or more of the following: chronic lowering of groundwater levels; reduction of groundwater storage; degradation of water quality; unreasonable land subsidence; depletion of interconnected surface water; and/or impacts to GDEs. The analysis herein demonstrates that proposed Paulsell Project extractions will not substantially contribute to any undesirable results, with the exception that predicted groundwater level decline for Paulsell Project construction is expected to exceed 0.5 feet at the nearest NCCAG mapped potential GDE. However, as described in Sections 4.1 and 4.6, there are several reasons it is unlikely that GDEs will be adversely impacted by Paulsell Project pumping including the following: 1) the distance-drawdown calculations are a conservative estimate (i.e., worst case scenario) of total predicted drawdown and do not take into account the influence of groundwater recharge and aquifer boundary conditions on the magnitude of drawdown; 2) the proposed Paulsell Project production wells will likely draw predominately from below the Corcoran Clay, thus drawdown in the shallow aquifer system is expected to be negligible; and 3) current groundwater levels in nearby wells are approximately 100 to 200 feet bgs, which is significantly greater than the average rooting depth of common phreatophytes of 30 feet bgs.

Additionally, groundwater extraction for Paulsell Project construction would be limited to 60 AF and would be temporary during the construction period, and when pumping stops groundwater levels will recover. Groundwater levels in wells nearby the Paulsell Project declined during the last drought but have since recovered to near predrought levels (Figure 3). The Paulsell Project would not result in the development of impervious surface area on the 1,132-acre Original Project Site, other than minor spatial requirements for installation of necessary support facilities. The majority of the Original Project Site would be developed with solar arrays which would not result in the addition of impervious surface area, and a portion of the Original Project Site would be left undeveloped. As such, groundwater recharge would not be impeded following implementation of the Paulsell Project. Therefore, based on findings of this Groundwater Resources Impact Analysis Report, Paulsell Project impacts to groundwater resources will be less than significant.

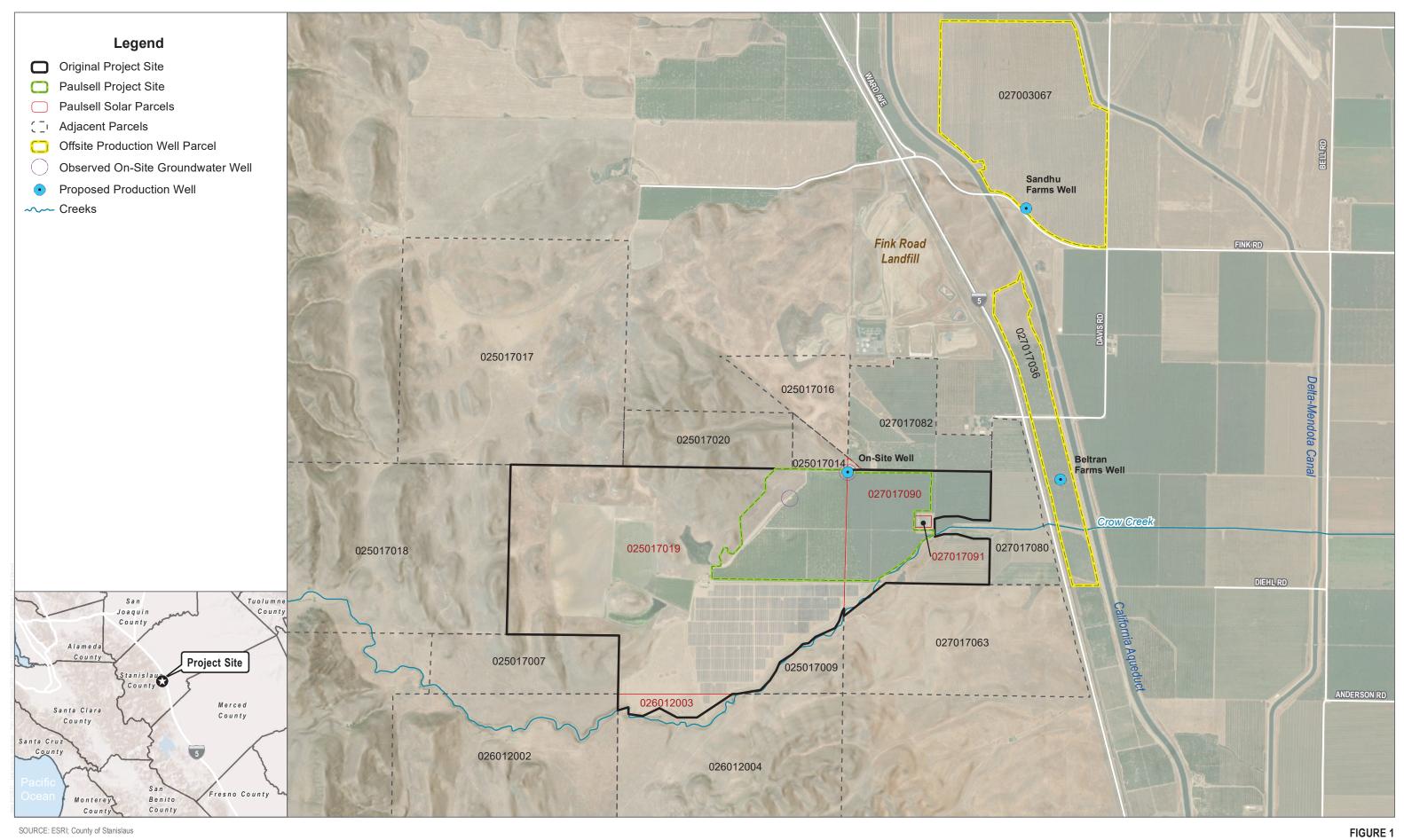


6 References

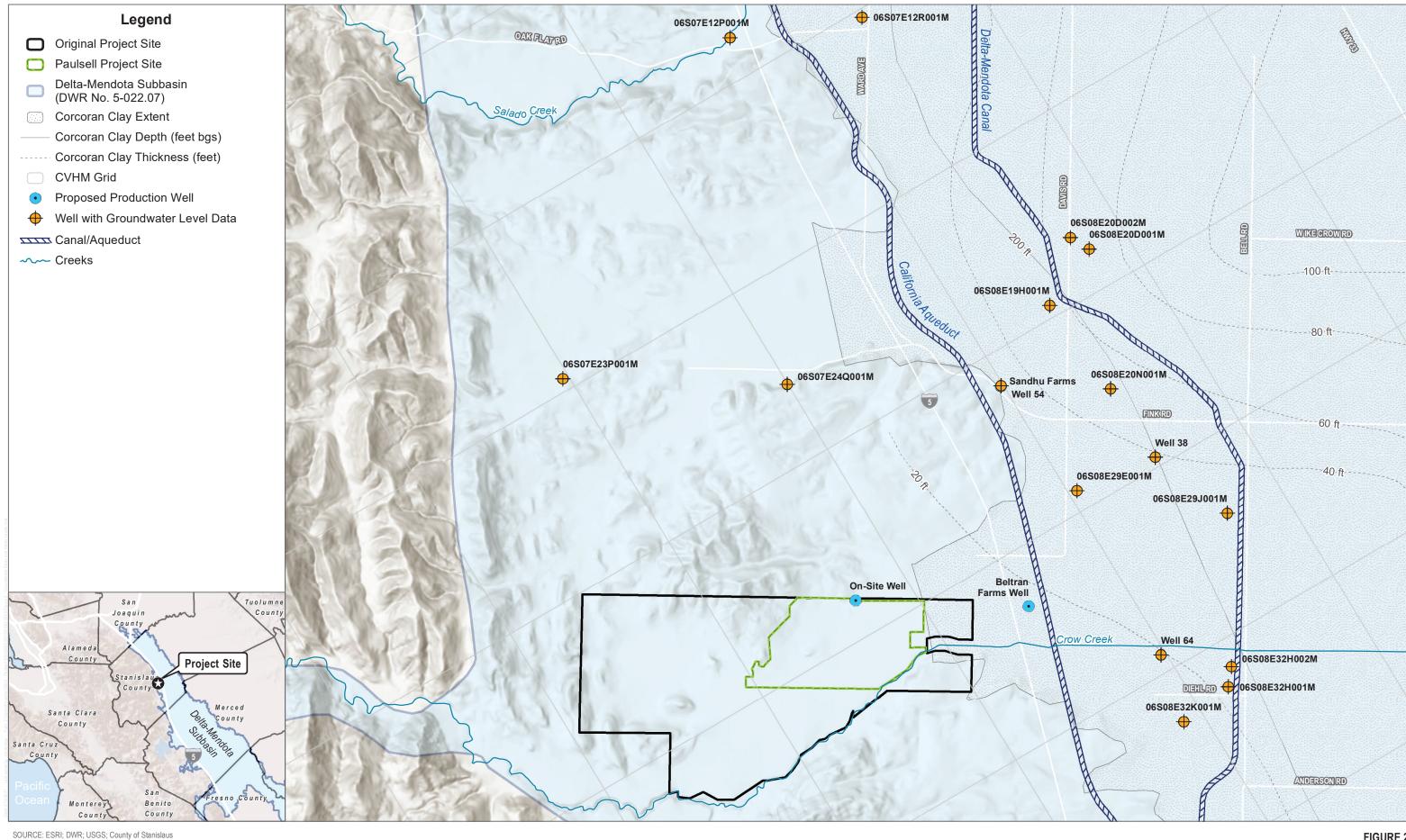
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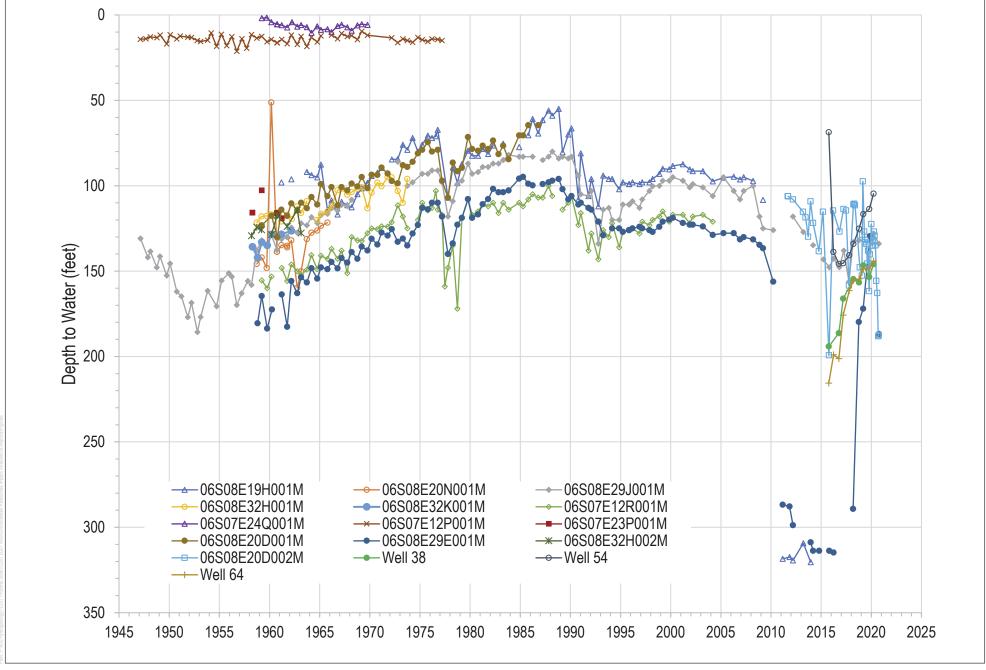


Project Site



DUDEK & 0.5

FIGURE 2



SOURCE: DWR

FIGURE 3
Groundwater Levels

Groundwater Resources Impact Analysis Paulsell Solar Energy Center

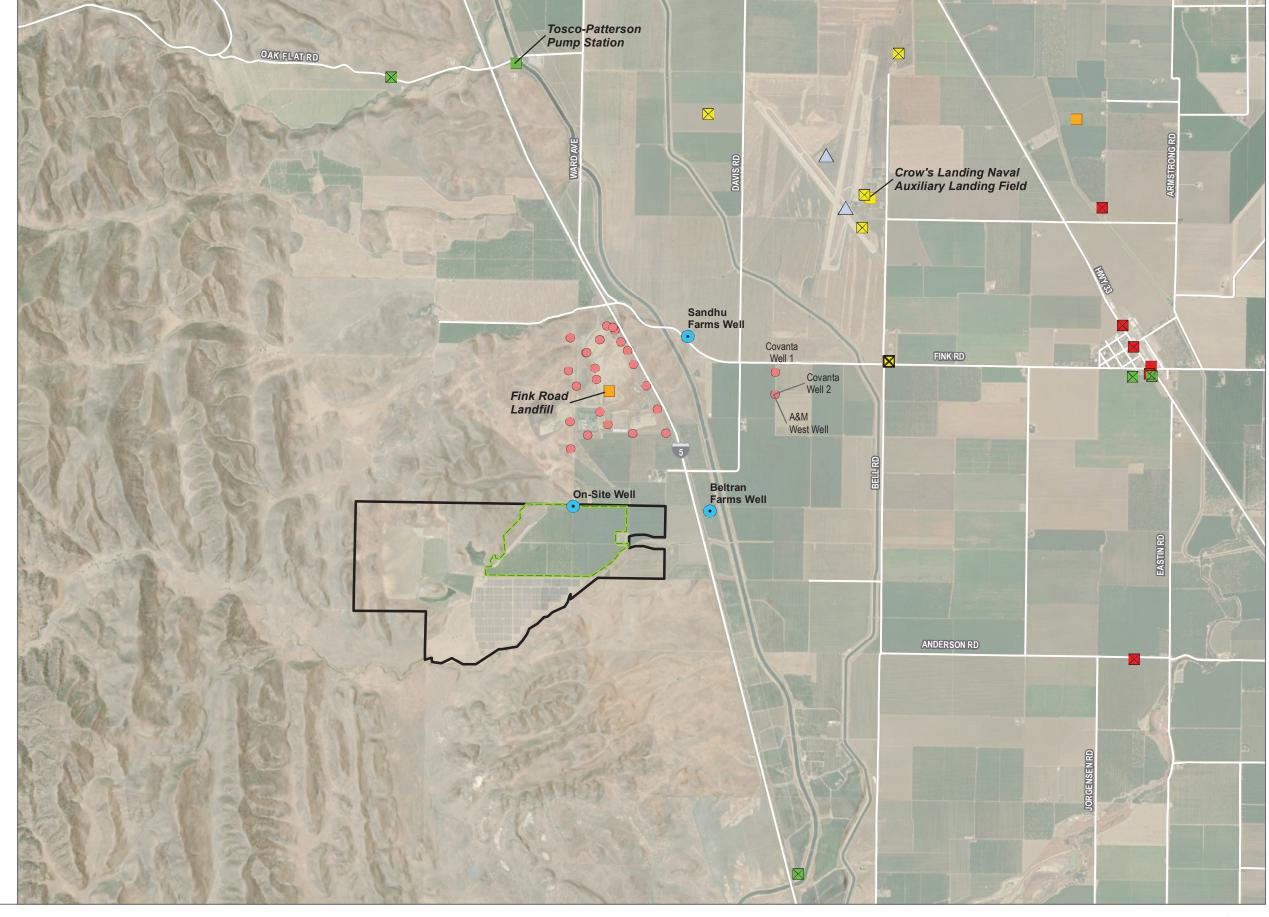


Legend

- Original Project Site
- Paulsell Project Site
- Well with Water Quality Data
- Proposed Production Well

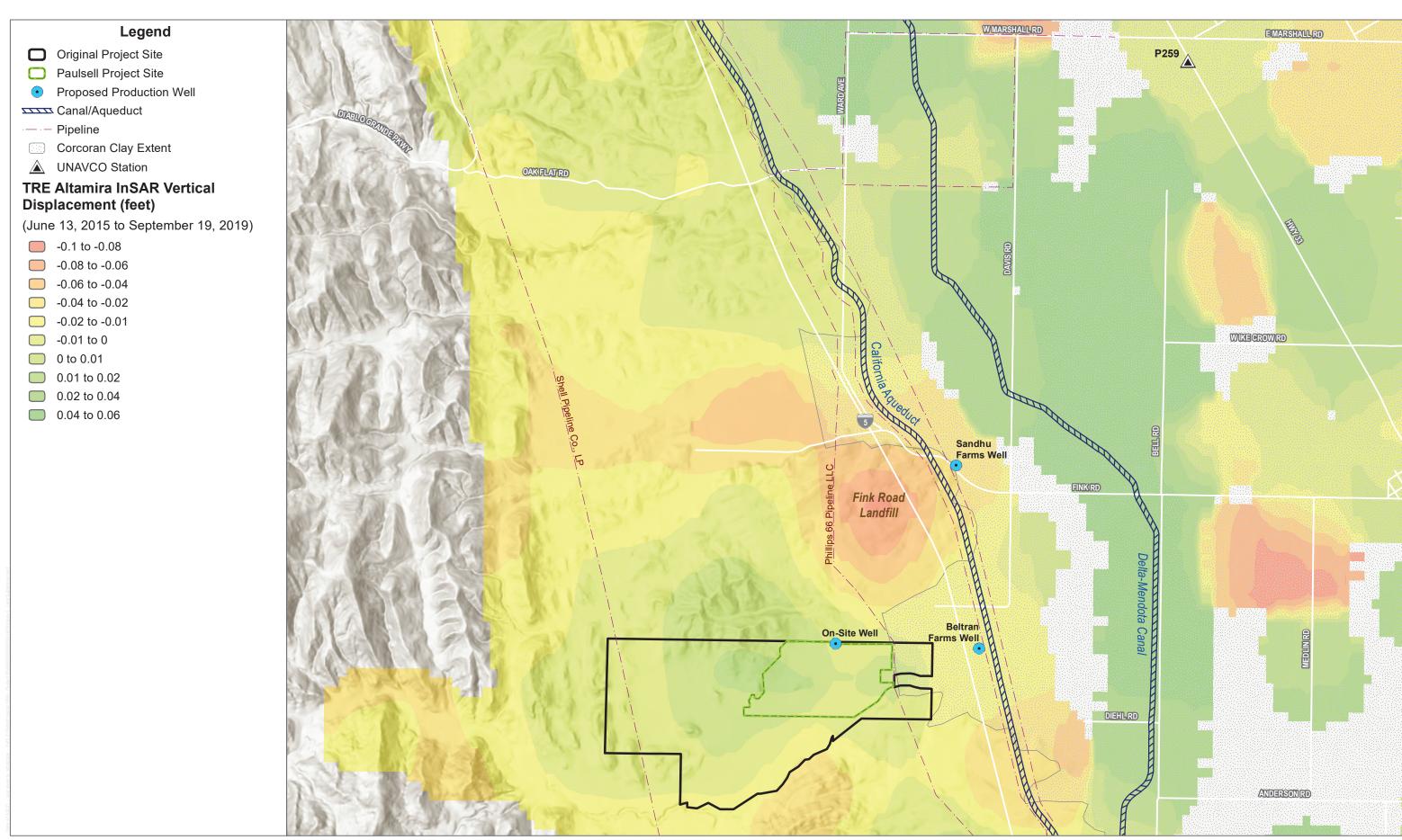
Cleanup Sites and Programs

- LUST Cleanup Site
- Cleanup Program Site
- Military Cleanup Site
- Military UST Site
- Land Disposal Site
- △ DTSC Cleanup Sites



SOURCE: ESRI; SWRCB; County of Stanislaus

FIGURE 4



SOURCE: ESRI; DWR; County of Stanislaus; UNAVCO

Land Subsidence

FIGURE 5

Legend

Original Project Site

Paulsell Project Site

Offsite Production Well Parcel

Proposed Production Well

Predicted Drawdown (0.5 feet)

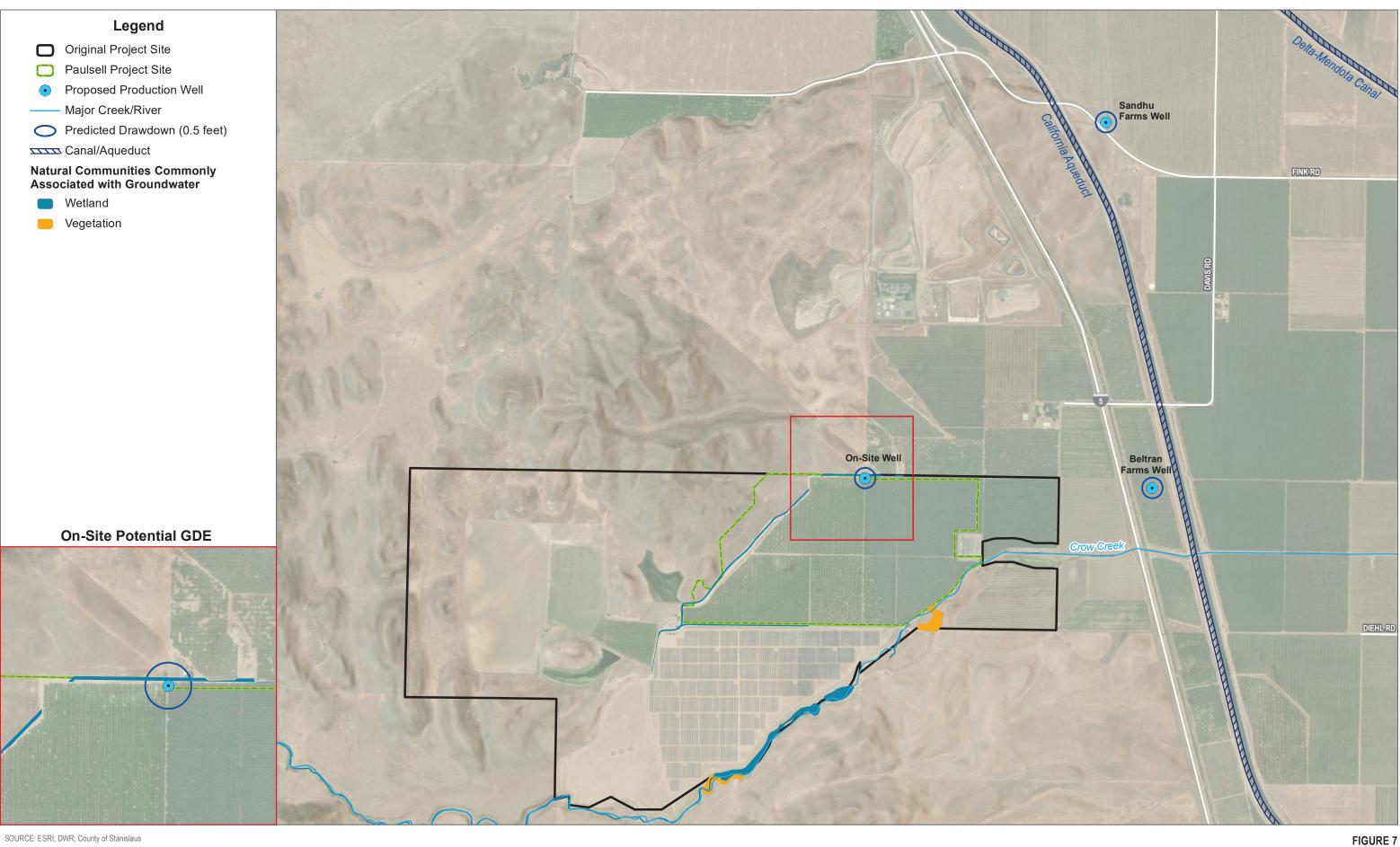
· — · — Pipeline

Canal/Aqueduct



SOURCE: ESRI; DWR; County of Stanislaus

DUDEK & _



DUDEK 6 0 1,000 2,000 Feet

DUDEK 36 April 2021

Appendix A Well Logs



- ESTIMATE -

No:

Estimator:

Woodward, Wayne

550 River Road / P O Box 336

Rio Vista, CA 94571

Phone (707) 374-4300

Fax (707) 374-5677

License: C-57 710079

Deliver to:

Date Prepared:

10/20/2014

Job Desc:

1000gpm

Beltran Farms

701 Fink Rd

701 Fink Road

Project MGR:

Beltran, Fred

Crows Landing, CA

Crows Landing, CA 95313

(209)765-9094

Requestor:

Beltran, Fred

Estimate based on the Following:

Mobilize to project site

Install pump capable of 1000 gpm with Variable Frequency Drive (VFD)

Install pump to 360'

Estimate Water level to be 200' below ground surface while pumping

Estimate well will be tied into existing pipe line that is another 150' above top of the well

Total lift expected to be 350', plus 30# psi of line pressure that the well will be tied into.

425' of wire will allow pump to be lowered if needed

1- 150 HP pump w/ Variable Frequency Drive System

1 - Well Seal

2 - Check Valves

357' of 6" Galv pipe

1 - 6" Galv Tee

1 - 6" plug

1 - 6" Nipple w/ NPT

1 - Galvanized Chemigation Valve

Estimate is for installation of pump to surface ending in 6" Tee at surface w/ VFD ready for electricity and ready to be hooked to 12" water line which is not yet i place.

Once electricity is at the well Woodward will hook up to the electrical pole and place a sonic well sounder to the well so there can be a visual display of the depth to water as well as the ability to download logged data of well ID, depth to water, water temperature and error codes. It can also be hardwired to a remote monitor up to 3000' away. Unit provides enough memory to record one data point per minute for over 50 years (25 million data points) and USB interface for data downloading Unit comes with a 3 year extended warranty for replacement of the unit only

8444

Item/Description

Labor and parts to Install 1000 gpm pump

Qty

Cost

Ext Cost

1.00 \$74,900.00 \$74,900.00

Total

\$74,900.00

Assumptions - Unless noted above

- Water available on-site
- Asphalt surface
- Level D safety protection
- Normal access
- Daily rate is based on a 10 hour day, portal to portal (Mob/De-Mob).
- One half day rate is based on a 5 hour day, portal to portal (Mob/De-Mob).
- Crews provided will have current 40hr OSHA, 8hr refresher & behavioral based safety training.

Terms and Conditions:

- The preceding cost estimate represents our best estimate for the tasks outlined above, as we understand them. The cost estimate does not reflect additional charges which will be incurred for standby time, adverse site and/or drilling conditions, unless noted above.
- Any revisions to the project outlined above may result in additional charges.
- Client will be invoiced following the completion of the project or every two (2) weeks; usually whichever comes first. Submitted invoices not paid within

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