# Appendix A Draft Decommissioning Plan

# PROJECT DECOMMISSIONING AND SITE RESTORATION PLAN Sloughhouse Solar Farm

Prepared for

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## Acronyms and Abbreviations

Acronym/Abbreviation	Definition
County	County of Sacramento
PV	photo voltaic
Proiect	Sloughhouse Solar Farm



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# 1.0 Project Decommissioning and Site Restoration Plan

## 1.1 Introduction

Sloughhouse Solar, LLC (Sloughhouse Solar, or Project Proponent) is proposing to develop the Sloughhouse Solar Farm (Project), an approximately 50-megawatt alternating current solar photovoltaic (PV) energy storage and generating facility located on the southwest corner of Meiss Road and Dillard Road adjacent to an existing solar energy facility located at 7794 Dillard Road, Sacramento County, California, approximately 1.96 miles southwest of Jackson Road, in the Cosumnes community (Supervisor District 5). The geographic center of the proposed Project roughly corresponds with 38.469825° North and -121.180041° West, at an elevation of 145 feet above sea level.

The Project is expected be in operation for 30 to 35 years. If the facility is decommissioned at the end of this period, Sloughhouse Solar or its successor in interest will be responsible for the removal, recycling, or disposal of all solar arrays, batteries, inverters, transformers, and other structures on the site, depending upon the proposed future use of the site. Sloughhouse Solar anticipates using the best available recycling measures at the future time of decommissioning.

## 1.2 Existing Use

The Project site is currently used as grazing lands for livestock, designated general agricultural (GA-80) by the County of Sacramento (County) General Plan Land Use Element (County of Sacramento 2017), and the Project site parcels are comprised of lands zoned as AG-20. The Project may continue to use land for agricultural activities, which may consist of apiary facilities and/or grazing activities.

## 1.3 Planned Use

The Project is being developed to provide solar PV power. Sloughhouse Solar would sell its energy, capacity, and environmental attributes to an electric utility purchaser under long-term contracts to help meet California Renewable Portfolio Standard goals.

The process starts with photovoltaic cells that make up photovoltaic modules (environmentally sealed collections of photovoltaic cells). Groups of photovoltaic modules are wired together to form a PV array. The DC produced by the array is collected at inverters (power conversion devices) where the DC is converted to alternating current (AC). The voltage of the electricity is increased by a transformer at each power conversion station to a medium voltage level (typically 34.5 kilovolts (kV)). Medium voltage electric lines (underground and/or overhead) are used to collect the electricity from each medium voltage transformer and transmit it to the facility substation, where the voltage is further increased by a high voltage transformer to match the electric grid for export to the point of interconnection along Dillard Road. Disconnect switches, fuses, circuit breakers, and other miscellaneous equipment will be installed throughout the system for electrical protection and operations and maintenance purposes.

The Project may include only one PV technology or a combination of various PV technologies, including but not limited to crystalline silicon-based systems, bifacial, thin-film systems, perovskites, and concentrating PV systems.

#### Site Layout

At full build-out, most of the Project site will be disturbed by construction of the Project. Temporary construction lay down, construction trailers, and parking areas will be provided within the Project Site. Due to the size of the Project site, the solar field lay down areas may be relocated periodically within the solar field acreage as the project is built out in phases.

The Project may also include additional auxiliary facilities such as raw water/fire water storage, treated water storage, storm water retention basins, water filtration buildings and equipment, and equipment control buildings, septic system(s) and parking. The design and construction of the buildings, solar arrays (panels, etc.), energy storage facilities, and auxiliary facilities will be consistent with County building standards.

The Project will include a powerline crossing of Dillard Road and access from Dillard Road. The proposed Project consists of a solar PV generating facility approximately 50 MWac in size. The ultimate energy output is dependent on several variables, including offtake arrangements and the evolving efficiency of PV panels, so it is possible that the Project could generate more or less than 50 MWac. Project construction will take approximately 8 months.

#### **Project Facilities**

The proposed Project consists of a solar PV storage and generating facility approximately 50 MW in size. The major components of the proposed Project are described below.

#### Photovoltaic Solar Modules

The Project will utilize PV modules. When sunlight strikes a PV module, the energy absorbed is transferred to electrons in the atoms of the semiconductor causing them to escape from their normal positions and become part of the current in an electrical circuit. The PV modules convert the sunlight directly into low-voltage DC electricity that is subsequently transformed to AC electricity through an inverter. The system only operates when the sun is shining during daylight hours. The system operates at peak output when the sunlight is most intense, though it also produces power in low light conditions.

#### Fixed-Tilt and Tracker Structures

Depending on the selected manufacturer for the PV modules, the modules will be mounted on fixed-tilt, single or dual-axis tracking structures. The modules will be grouped in nominal 1 to 2MW-AC arrays. Fixed tilt arrays will be oriented in east-west rows and will face in a generally southern orientation with a tilt angle between 10 and 35 degrees to maximize the amount of incidental solar radiation absorbed over the year. Single-axis trackers typically rotate ±60 degrees (0 degrees is horizontal) along a nominally north-south axis to track the sun's movement throughout the day. Structural support elements will be constructed of corrosion-resistant steel, aluminum, or equivalent members that are attached to circular piers or I-beam posts that will be driven into the prepared base grade of the site.

The solar array field is arranged in groups called "blocks." The entire array block is connected to an inverter and transformer station to convert the current from DC to AC and step up the voltage to a higher voltage which is more efficient for transmitting power to the project substation.



#### Inverters and Pad-mounted Transformers

At the center of each array is a power conversion station where inverters take the DC power output from the PV modules and convert it to AC power. The adjacent pad-mounted transformer steps the voltage up to a medium voltage level. The medium voltage outputs from each of the pad-mounted transformers are collected together in combining switchgear located at discrete locations on the Project site. The medium voltage output from the combining switchgear will be connected to the Project substation where it will then be stepped up to 69 kV for export to the grid.

#### Substation and Switchyard

An onsite substation will step-up the voltage from the collection level voltage to 69 kV. Breakers, buswork, protective relaying, Supervisory Control and Data Acquisition (SCADA), and associated substation equipment will be constructed on the Project site. The communication system may include above or below ground fiber optic cable or microwave tower. The Project will be interconnected to the regional transmission system from the onsite substation/switchyard via the gen-tie facilities described in this project description.

#### Transmission Interconnection Facilities

The Project plans to connect to Sacramento Municipal Utility District's (SMUD) 69 kV powerlines.

## **Energy Storage**

The Project will likely incorporate a battery energy storage facility as well as energy storage being housed within the inverters. The field of energy storage is rapidly advancing, thus a single technology or provider has not been selected for the energy storage portion of the Project. The storage component may be centralized and located adjacent to the substation or switchgear, or alternatively, the energy storage component may be distributed throughout the plant adjacent to individual power conversion centers. The storage component would be housed in a warehouse type building or alternatively in smaller modular structures such as cargo shipping containers.

## 1.4 Plan Purpose

The purpose of this Project Decommissioning and Site Restoration Plan is to ensure that if the Project is decommissioned, the site restoration will be accomplished in a way that is environmentally sound, safe, and protects the public health and safety. Decommissioning is a general term used to describe a formal process to remove something from active status, whereas restoration objectives aspire to return the land to some degree of its former state, after some process has resulted in its disturbance.

Future conditions that could affect decommissioning are largely unknown at this time; however, the best available technologies and management practices will be deployed to ensure successful Project decommissioning and site restoration.

## 1.5 Plan Objectives

In order to ensure that decommissioning will be completed in a manner that is environmentally sound, safe, and protects the public health and safety, Sloughhouse Solar or its successor in interest will submit a final plan for

Project decommissioning to the County for review and approval before the Project's decommissioning begins. Overall, the final plan will include a discussion of the following:

- Proposed decommissioning activities for the Project and all appurtenant facilities that were constructed as part of the Project
- The activities necessary to restore the site if the plan requires removal of equipment and appurtenant facilities
- Decommissioning alternatives at the time of final decommissioning

Satisfying the above requirements should serve as a safeguard, even in the unlikely event that the Project is abandoned.

## 1.6 Project Decommissioning

In general, decommissioning would attempt to maximize the recycling of all facility components. Specific opportunities for recycling (for example, PV solar panels) are discussed below in the context of various site components. The individual Project components to be decommissioned will be recycled to the maximum extent possible. The key Project components to be affected by decommissioning activities are discussed below. The general decommissioning approach would be the same whether a portion of the Project or the entire Project would be decommissioned.

### **Decommissioning Preparation**

The first step in the decommissioning process would be to assess existing site conditions and prepare the site for demolition. Site decommissioning and equipment removal can take a year or longer. Therefore, access roads, fencing, electrical power, and raw/sanitary water facilities will temporarily remain in place for use by the decommissioning and restoration workers until no longer needed. Demolition debris will be placed in temporary on-site storage area(s) pending final transportation and disposal/recycling according to the procedures listed below.

### PV Equipment Removal and Recycling

During decommissioning, Project components that are no longer needed would be removed from the site and recycled or abandoned in place for all underground conductors. The PV solar panels and supports will be removed. The demolition debris and removed equipment may be cut or dismantled into pieces that can be safely lifted or carried with the on-site equipment being used. The majority of glass and steel will be processed for transportation and delivery to an off-site recycling center. All steel, aluminum, and copper will be recycled, and panels will be recycled in accordance with the PV manufacturer recycling program.

#### **Energy Storage Components**

If it is determined that the energy storage will no longer be useful for future land uses on the site, it will be decommissioned. The energy storage components would be dismantled and recycled. The concrete to a minimum of 12 inches below grade, foundation, and parking area would be broken up and removed from the site to an appropriately licensed disposal facility. All equipment would be removed and recycled to the extent practical.

## Substation and Switchyard

At decommissioning, if it is determined that the on-site substation will not be utilized by a public or private utility, the prefabricated control house and electronic components of the substation equipment will be electrically

disconnected and made safe for removal. The control house will then be disassembled and removed from the site. The transformers, breakers, buswork, and metal dead-end structures will also be disassembled and removed. Concrete foundations and containment berms/curbs for the transformers will be broken up to a minimum of 12 inches below grade, and all debris will be removed from the site, as will the aggregate rock.

Transformers using insulating oils will be removed from the site and recycled or disposed of at an appropriately licensed disposal facility. Site personnel involved in handling these materials will be trained appropriately.

As part of the preparation for closure, the Spill Containment and Countermeasures Plan for the site will be updated to cover spill prevention and countermeasures for handling these materials during decommissioning. Procedures to decrease the potential for release of contaminants to the environment and contact with stormwater would be specified in a decommissioning Stormwater Pollution Prevention Plan (SWPPP).

### **Internal Power Collection System**

The power collection system will be dismantled and removed. All underground cables will be cut off and will remain in place at a depth of 12 inches below ground surface. All equipment and cabling that is removed will be recycled.

#### Transmission Interconnection Facilities

The transmission interconnection facilities will remain in place for the life of the facility. At the time of full Project decommissioning, if the transmission interconnection facilities will not be further utilized by a public or private utility or power generator, the line will be decommissioned. Decommissioning of the aboveground portion of the line will consist of removal of the overhead conductors and removal of poles. All steel and concrete will be recycled and the foundations will be removed to a depth of at least 2 feet below the ground surface. Aluminum from overhead conductors will be recycled.

## 1.7 Site Restoration

Restoration activities will return the Project site to agriculture use (i.e., livestock grazing). Returning the land to agricultural use would entail increasing the nutrient content to pre-construction levels and aerating the soils through regular tilling.

Reclamation will restore landform features, vegetative cover, and hydrologic function after closure of the facility. The process will involve replacement of topsoil, brush, rocks, and natural debris over disturbed areas so that the site will support agriculture use (i.e., livestock grazing) or similar useful purpose. Restoring these features to a natural condition compatible with the adjacent surroundings will inherently restore the basic visual elements of line, form, texture and color of the site to pre-disturbance conditions.

If soils are determined to be compacted at levels that would affect successful restoration, decompaction would occur. The method of decompaction will depend on how compacted the soil has become over the life of the project. Efforts will be made to disturb as little of the natural drainages and existing natural vegetation, that remain post-decommissioning, as possible. The soil surface will be left rough to retain microcatchments to capture water and seeds to facilitate water infiltration and seed germination.

A combination of seeding, planting of nursery stock, transplanting of local vegetation within the proposed disturbance areas, and staging of decommissioning activities enabling direct transplanting, will be considered. Native vegetation will be used for revegetating to establish a composition consistent with the form, line, color, and texture of the surrounding undisturbed landscape.

The success of the restoration effort will be based on the development of the target vegetation communities relative to undisturbed reference sites. The reference sites should represent intact, native vegetative communities with similar species composition and conditions that that occurred prior to impacts. The success standards should include metrics for evaluating the comparative structure and function of the plant community in the reference area. The seed mix composition will include pioneer and early-successional species, and therefore revegetation areas may not represent the character and composition of undisturbed areas. Therefore, success will be linked to seedling establishment and survival, increase in the cover and species richness of perennial shrubs, and development of the target vegetation community. Success of revegetation efforts will take into consideration the weather conditions as they relate to seed germination and plant growth.

Visual inspections will be conducted to document germination, growth, and survival of seeded species, and growth and survival of transplanted succulents. Data collected will include species composition and cover, general size and vigor of the plants, percent live versus dead plants for succulents, observed soil erosion, evidence of wildlife use, and any other information that will be useful in evaluating success. The monitoring program will also include photographic documentation at permanent photo locations.

All permits related to restoration would be obtained where required.

## 1.8 Estimated Costs

Sloughhouse Solar Farm, LLC, as the case may be, will provide financial security for the performance of its decommissioning and restoration obligations based on the initial decommissioning and site restoration plan. A decommissioning cost estimate will be prepared and submitted to the County prior to grading activities. The cost estimate will be used to determine the value of the performance bond, letter of credit, or other form of surety, to ensure that the funds will be available for decommissioning and site restoration (see Section 3.0).

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# 2.0 Decommissioning and Restoration:Scope and Timing

## 2.1 Scope of Decommissioning

Decommissioning the Project will involve removal of the Project's components as necessary for reuse of the site, including the solar panels, panel trackers, supports and mounts, batteries, inverters, transformers, electrical conductors, electrical cables, and substation components; removal of other structures; and the regrading of any areas significantly impacted by the removal of any components. Roads may be removed or left in place based upon the landowner's anticipated reuse after decommissioning.

## 2.2 Site Restoration

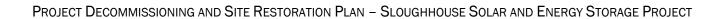
Restoration of the Project site will be to a reasonable approximation of its original condition prior to construction allowing for any permanent improvements chosen by the underlying landowners to be left on site. The final decommissioning and restoration plans will contain the measures necessary to fulfill Sloughhouse Solar's restoration obligations.

## 2.3 Timing, Exemptions, and Extension

Sloughhouse Solar Farm, LLC, as the case may be, will decommission the Project and restore the Project site within 12 months following Project termination. The 12-month period to perform the decommissioning and restoration may be extended for one additional 12-month period if there is a delay caused by forces beyond the control of Sloughhouse Solar including, but not limited to, inclement weather conditions, planting requirements, equipment failure, wildlife considerations, or the availability of equipment or personnel to support decommissioning.

## 2.4 County Access and Reporting

The County will be granted access to the Project site during decommissioning of the Project for purposes of inspecting any decommissioning work or to perform decommissioning evaluations. County personnel must provide a 5-day pre-notification for site access on the Project site and must observe all current owner safety standards and protocols. If requested by the County, Sloughhouse Solar will provide monthly status reports until decommissioning work is complete.



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# 3.0 Decommissioning and Restoration Funding and Security

## 3.1 Decommissioning and Restoration Obligations

Sloughhouse Solar Farm, LLC, as the case may be, will post a performance bond, letter of credit, or other form of surety, as described in Section 3.2, to ensure the availability of funds to cover Sloughhouse Solar decommissioning and restoration obligations. Sloughhouse Solar Farm, LLC will deliver an updated cost estimate along with the financial security to the County ten years prior to the end of the Power Purchase Agreement Term. The surety will be based upon a signed engineer's estimate of the costs of Sloughhouse Solar's potential decommissioning and restoration obligations.

## 3.2 Surety

Sloughhouse Solar Farm, LLC, as the case may be, will provide financial security for the performance of its decommissioning and restoration obligations assuming the site is restored to agricultural use through a performance bond, letter of credit, or other form of surety issued by a surety registered with the California State Insurance Commissioner and is, at the time of delivery of the bond, letter of credit, or other form of surety, on the authorized insurance provider list published by the Insurance Commissioner. The performance bond, letter of credit, or other form of surety will be in an amount equal to 100% of the estimated costs for Sloughhouse Solar's decommissioning and restoration obligations with credit provided for any recyclable materials. The surety will be for a term of 1 year, beginning 10 years prior to the end of the Power Purchase Agreement Term and will be continuously renewed, extended, or replaced so that it remains in effect for the remaining term of the agreement or until the secured decommissioning obligations are satisfied, whichever occurs later.

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## 4.0 Reference

County of Sacramento. 2017. "Land Use Element." In *County of Sacramento General Plan*. Amended December 13, 2017. https://planning.saccounty.net/PlansandProjectsIn-Progress/Pages/GeneralPlan.aspx.

## Appendix B Land Use

F	U.S. Departme			ATING			
PART I (To be completed by Federal Agend	Date Of Land Evaluation Request 07-15-2022						
Name of Project Sloughhouse Solar	Federal Agency Involved USDA Rural Utility Service						
Proposed Land Use Utility-Scale Solar Energy Facility			County and State Sacramento County, California				
PART II (To be completed by NRCS)				Person C Luis A	Person Completing Form: Luis Alvarez		
Does the site contain Prime, Unique, Statew	ide or Local Important Farmland	? Y	ES NO	Acres Ir	rigated Average Farm Size		
(If no, the FPPA does not apply - do not con			$\checkmark$	100,399 224 acres			
Major Crop(s)	Farmable Land In Govt.					Defined in FP	PPA
Corn, Cotton & Sugarbeet	Acres: 430,135% 6			Acres: 312,25% 49.1			
Name of Land Evaluation System Used CA Revised Storie Index	Name of State or Local S	nte Assessr ne	nent System	Date Land Evaluation Returned by NRCS 7/21/2022			
PART III (To be completed by Federal Ager	псу)			Alternative Site Rating			
A. Total Acres To Be Converted Directly				Site A 372	Site B	Site C	Site D
B. Total Acres To Be Converted Indirectly				0			
C. Total Acres In Site				372			
PART IV (To be completed by NRCS) Land	d Evaluation Information			312			
A. Total Acres Prime And Unique Farmland				24.50			
B. Total Acres Statewide Important or Local	Important Farmland			24.50			
C. Percentage Of Farmland in County Or Lo				129.30 0.0493			
D. Percentage Of Farmland in Govt. Jurisdic		ive Value		27.10			
PART V (To be completed by NRCS) Land							
Relative Value of Farmland To Be Co	onverted (Scale of 0 to 100 Point	s)		32			
<b>PART VI</b> (To be completed by Federal Age. (Criteria are explained in 7 CFR 658.5 b. For		CDA 106)	Maximum Points	Site A	Site B	Site C	Site D
Area In Non-urban Use	Cornadi project use form NACS-	CFA-100)	(15)	15			
2. Perimeter In Non-urban Use			(10)	10			
Percent Of Site Being Farmed			(20)	15			
Protection Provided By State and Local 0	Government		(20)	20			
Distance From Urban Built-up Area			(15)	15			
6. Distance To Urban Support Services			(15)	10			
7. Size Of Present Farm Unit Compared To	Average		(10)	8			
8. Creation Of Non-farmable Farmland				10			
Availability Of Farm Support Services				5			
10. On-Farm Investments				5			
11. Effects Of Conversion On Farm Support Services			(10)	0			
12. Compatibility With Existing Agricultural Use			(10)	8			
TOTAL SITE ASSESSMENT POINTS			160	121	0	0	0
PART VII (To be completed by Federal A	gency)						
Relative Value Of Farmland (From Part V)				32	0	0	0
Total Site Assessment (From Part VI above or local site assessment)			160	121	0	0	0
TOTAL POINTS (Total of above 2 lines)			260	153	0	0	0
Site Selected: Site A Date Of Selection				Was A Local Site Assessment Used?  YES NO   NO			
Reason For Selection:			1				
	laking this farm				1.5		
Name of Federal agency representative comp	eting this form:				Da	ate:	

## STEPS IN THE PROCESSING THE FARMLAND AND CONVERSION IMPACT RATING FORM

- Step 1 Federal agencies (or Federally funded projects) involved in proposed projects that may convert farmland, as defined in the Farmland Protection Policy Act (FPPA) to nonagricultural uses, will initially complete Parts I and III of the form. For Corridor type projects, the Federal agency shall use form NRCS-CPA-106 in place of form AD-1006. The Land Evaluation and Site Assessment (LESA) process may also be accessed by visiting the FPPA website, http://fppa.nrcs.usda.gov/lesa/.
- Step 2 Originator (Federal Agency) will send one original copy of the form together with appropriate scaled maps indicating location(s)of project site(s), to the Natural Resources Conservation Service (NRCS) local Field Office or USDA Service Center and retain a copy for their files. (NRCS has offices in most counties in the U.S. The USDA Office Information Locator may be found at <a href="http://offices.usda.gov/scripts/ndISAPI.dll/oip\_public/USA\_map">http://offices.usda.gov/scripts/ndISAPI.dll/oip\_public/USA\_map</a>, or the offices can usually be found in the Phone Book under U.S. Government, Department of Agriculture. A list of field offices is available from the NRCS State Conservationist and State Office in each State.)
- Step 3 NRCS will, within 10 working days after receipt of the completed form, make a determination as to whether the site(s) of the proposed project contains prime, unique, statewide or local important farmland. (When a site visit or land evaluation system design is needed, NRCS will respond within 30 working days.
- Step 4 For sites where farmland covered by the FPPA will be converted by the proposed project, NRCS will complete Parts II, IV and V of the form.
- Step 5 NRCS will return the original copy of the form to the Federal agency involved in the project, and retain a file copy for NRCS records.
- Step 6 The Federal agency involved in the proposed project will complete Parts VI and VII of the form and return the form with the final selected site to the servicing NRCS office
- Step 7 The Federal agency providing financial or technical assistance to the proposed project will make a determination as to whether the proposed conversion is consistent with the FPPA

### INSTRUCTIONS FOR COMPLETING THE FARMLAND CONVERSION IMPACT RATING FORM

(For Federal Agency)

**Part I**: When completing the "County and State" questions, list all the local governments that are responsible for local land use controls where site(s) are to be evaluated.

Part III: When completing item B (Total Acres To Be Converted Indirectly), include the following:

- 1. Acres not being directly converted but that would no longer be capable of being farmed after the conversion, because the conversion would restrict access to them or other major change in the ability to use the land for agriculture.
- 2. Acres planned to receive services from an infrastructure project as indicated in the project justification (e.g. highways, utilities planned build out capacity) that will cause a direct conversion.

**Part VI**: Do not complete Part VI using the standard format if a State or Local site assessment is used. With local and NRCS assistance, use the local Land Evaluation and Site Assessment (LESA).

- 1. Assign the maximum points for each site assessment criterion as shown in § 658.5(b) of CFR. In cases of corridor-type project such as transportation, power line and flood control, criteria #5 and #6 will not apply and will, be weighted zero, however, criterion #8 will be weighted a maximum of 25 points and criterion #11 a maximum of 25 points.
- 2. Federal agencies may assign relative weights among the 12 site assessment criteria other than those shown on the FPPA rule after submitting individual agency FPPA policy for review and comment to NRCS. In all cases where other weights are assigned, relative adjustments must be made to maintain the maximum total points at 160. For project sites where the total points equal or exceed 160, consider alternative actions, as appropriate, that could reduce adverse impacts (e.g. Alternative Sites, Modifications or Mitigation).

**Part VII:** In computing the "Total Site Assessment Points" where a State or local site assessment is used and the total maximum number of points is other than 160, convert the site assessment points to a base of 160. Example: if the Site Assessment maximum is 200 points, and the alternative Site "A" is rated 180 points:

$$\frac{\text{Total points assigned Site A}}{\text{Maximum points possible}} = \frac{180}{200} \times 160 = 144 \text{ points for Site A}$$

For assistance in completing this form or FPPA process, contact the local NRCS Field Office or USDA Service Center.

NRCS employees, consult the FPPA Manual and/or policy for additional instructions to complete the AD-1006 form.

# Appendix C Floodplains and Wetlands

## Eight-Step Decision Making Process Executive Order 11988: Floodplain Management Sloughhouse Solar Project – Sacramento County, CA

Executive Order (EO) 11988 Floodplain Management requires federal agencies "...to avoid to the extent possible the long- and short-term adverse impacts associated with the occupancy and modification of floodplains and to avoid direct and indirect support of floodplain development wherever there is a practicable alternative" (EO 11988, Floodplain Management). While not intended to prohibit floodplain development in all cases, the EO creates a consistent government policy requiring agencies avoid the 100-year floodplain unless there is no practicable alternative. Towards this objective, implementing regulations of the Federal Emergency Management Agency (FEMA), 44 CFR Part 9, include an 8-step decision-making process.

Sloughhouse Solar, LLC (Sloughhouse Solar) proposes to construct a 50-megawatt (MW) solar energy facility on approximately 372 acres in the unincorporated Cosumnes community of Sacramento County in California (EA Section 1.2). This Proposed Action would supply electrical power to the Sacramento Municipal Utility District (SMUD) using existing SMUD distribution facilities. To ensure the Proposed Action is consistent with EO 11988, Floodplain Management, development in the floodplain is evaluated below using the 8-step process.

## Step 1 – Determine Whether the Proposed Action is Located in the Base Floodplain

The Base Floodplain is the elevation of the 100-year floodplain, the area subject to a one-percent chance of flooding in any given year. Similarly, the area subject to a 0.2-percent chance of flooding in any given year is normally called the 500-year floodplain.

The Proposed Action involves development in unincorporated Sacramento County near the Cosumnes River. Northern and western portions of the 372-acre Proposed Action Area lie in the Cosumnes River/Deer Creek floodplain. Privately-owned flood control levees present along the east and west sides of the Cosumnes River in the Proposed Action vicinity have no formal maintenance schedule or maintenance agreement. The Project Study Area is located within an area where levees have been overtopped in the past by flood flows.

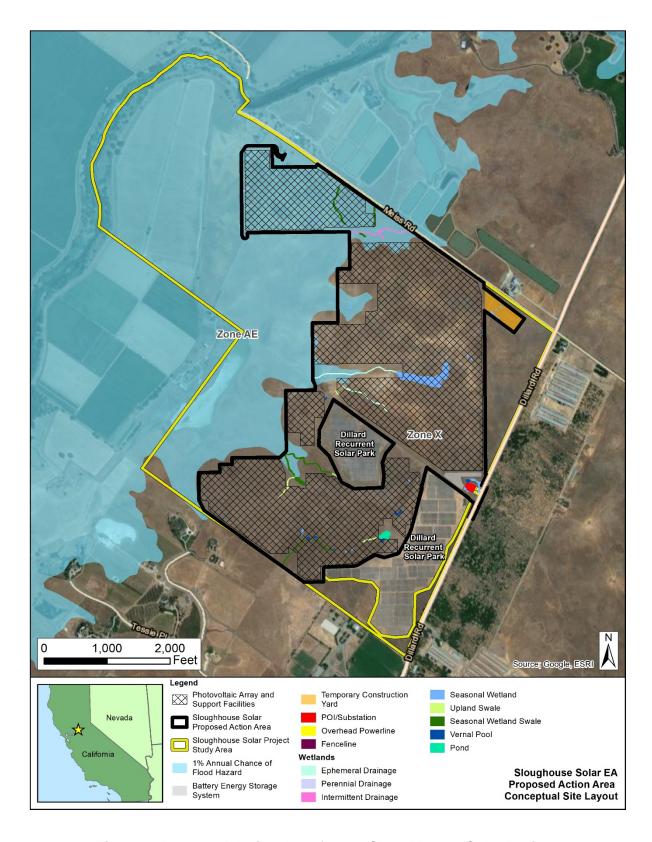


Figure 1. Proposed Action Area for the Sloughhouse Solar Project.

The most recent FEMA Flood Insurance Rate Map, revised in 2018, situates approximately 73 acres of the northwestern portion of the Proposed Action Area in Zone AE, which is a 100-year flood zone (1 percent annual exceedance probability) where the base flood elevation has been determined (Figure 1). The remainder of the Proposed Action Area is designated by FEMA as unshaded Zone X—an area of minimal flood hazard. No portion of the Proposed Action Area is located within a 500-year floodplain.

## Step 2 - Preliminary Public Notice

The publication of the Notice of Availability (NOA) for the Draft EA will serve as the Preliminary Public Notice of RUS's intent to carry out an action in a floodplain and involve the affected and interested public in the decision-making process. Interested parties are invited to submit comments to RUS during the 14-day public comment period following publication of the NOA.

## Step 3 – Search for Practicable Alternatives

Action Alternatives – Sloughhouse Solar explored alternative locations in the site selection process, based on environmental impact (including sensitive areas), minimal land use, minimal environmental constraints, interconnection capacity, site accessibility, and willing landowners (EA Chapter 2.0). While alternative sites were eliminated from consideration due to distance from SMUD infrastructure and lack of willing landowners, a suitable site and willing landowner was identified directly adjacent to SMUD infrastructure (EA Section 2.3) on previously disturbed lands at the proposed Project Study Area (Figure 1).

While the Project Study Area was identified as the most suitable site, the western side lies within the Base Floodplain, shown as Zone AE in Figure 1. The Project Study Area was refined down to the smaller Proposed Action Area that includes approximately 73 acres within the Base Floodplain that would principally contain the photovoltaic array. The substation would not located within the Base Floodplain.

No Action Alternative – The No Action Alternative is not practicable because it fails to address the project need of contributing towards meeting California's and SMUD's renewable energy goals; thus, losing the opportunity to reduce carbon emissions.

## Step 4 – Identify Impacts and Beneficial Values/Functions

Natural floodplains provide flood risk reduction benefits by slowing runoff and storing water. Floodplains are also areas of high biological productivity. Other benefits include fish and wildlife habitat protection, flood and erosion control, groundwater recharge, and surface water quality maintenance by filtering sediment and contaminants.

The approximately 73 acres of the Proposed Action Area that lie within the 100-year floodplain would require grading that would directly alter topography and drainage patterns. Installation of the PV arrays would also have a minor impact on habitat areas during construction. However, during operations, the area around the arrays would be revegetated and utilized for grazing, therefore, there would be no long-term impacts on habitat. While land use would change from purely agricultural/grazing to a solar facility, the impact would be minor since grazing activities could continue.

Proposed facilities outside the floodplain would include up to 15 acres of new impervious surfaces (approximately 4.5 percent of the total solar development area) thereby indirectly affecting the floodplain due to increasing the discharge rate of stormwater runoff. However, site grading and implementation of BMPs should minimize any potential impacts associated with stormwater runoff.

While the natural function of the Base Floodplain would be impacted by the Proposed Action, impacts would be minimal. Best management practices would be utilized throughout the life of this Proposed Action and applicable ordinances and codes would be followed to reduce and minimize impacts to the most practicable extent possible.

Installation of the PV arrays within a portion of the floodplain would alter the existing viewshed in the vicinity, however, this effect would be minimized through installation of hedgerows and other vegetative screening as appropriate between the arrays and offsite sensitive receptors. There would be no impacts to cultural resources.

## **Step 5 – Mitigate Adverse Impacts**

The Proposed Action has been planned to avoid and minimize impacts to sensitive areas. As discussed in Step 3, the initial study area was refined through design to avoid the impact to floodplain acreage the extent possible. The majority of the proposed facilities would be outside the Base Floodplain. Sloughhouse Solar would comply with the standards set forth in Sacramento County's Floodplain Management Ordinance. Hydrologic studies to determine whether the placement of solar panels and fencing would impede or substantially increase flood flows would be performed as part of final design of the facility and prior to the issuance of permits for grading, buildings, or improvement plans.

While the natural function of the Base Floodplain would be impacted by the Proposed Action, BMPs would be utilized to prevent erosion and sedimentation and protect other floodplain values. The implementation of appropriate mitigation measures would result in negligible to minor impact on flooding due to floodplain topography alterations during construction or runoff management during operations.

#### Step 6 – Re-evaluate Alternatives

Alternative sites are further from infrastructure making interconnections with SMUD more costly and the areal extent of impacts greater. The Proposed Action Area minimizes the extent of impact to the Base Floodplain to approximately 73 acres. In addition, while planned facilities within the Base Floodplain would include solar arrays and support systems, the substation would be located in an area not prone to 100- or 500-year floods; thus, minimizing the impact to the Base Floodplain. In addition, because the Proposed Action would not significantly alter water levels nor reduce habitat in the Base Floodplain, construction and operation of the Proposed Action is practicable. The Proposed Action is the most practicable alternative based on the proximity of the proposed facility to SMUD infrastructure and willing landowners to support the project. The No Action Alternative is not practicable because it fails to address the project need of contributing towards meeting California's and SMUD's renewable energy goals; thus, losing the opportunity to reduce carbon emissions.

## Step 7 - Final Public Notice

Publication of the Finding of No Significant Impact (FONSI), after completion of the Final EA, will serve as the Final Public Notice to provide the public with the finding and explanation of the Agency's final decisions that the floodplain impact is the least damaging practicable alternative and that there is a significant need for the proposed action.

## Step 8 – Implement Proposed Action with Appropriate Mitigation

Upon issuance of the FONSI / Final Public Notice, the Proposed Action would be constructed and operated in accordance with applicable floodplain management procedures. Sloughhouse Solar would obtain all required federal, state, and local building and site development permits for impacts to the Base Floodplain prior to construction to preserve function and value.

Other implementation measures and mitigation are contingent on final permits/authorizations, Final EA, and FONSI.

## Eight-Step Decision Making Process Executive Order 11990: Wetlands Protection Sloughhouse Solar Project – Sacramento County, CA

Executive. Order 11990 requires federal agencies to take action to minimize the destruction, loss or degradation of wetlands and to provide opportunity for early public review for any proposals for new construction in wetlands. To meet these requirements as provided by 24 CFR Part 55.20, the Eight Step Decision-Making Process for Alternatives Consideration has been documented here for the Proposed Action. This project pertains to proposed project activities in the mapped wetlands, as identified in Figure 1.

Sloughhouse Solar, LLC (Sloughhouse Solar) is proposing to develop a 50-megawatt (MW) solar energy facility on approximately 372 acres in the Cosumnes community of unincorporated Sacramento County in California. Approval of the proposed Sloughhouse Solar Project (Proposed Action) would result in the construction, operation, and eventual decommissioning of solar-energy generation, and electrical distribution facilities (EA Section 1.2).

## Step 1 - Determine if the Proposed Action is in a Wetland

The Proposed Action Area is located on agricultural grazing land. Northwest of the site, there is a mitigation bank for a variety of wetland and wildlife resources. The Cosumnes River borders the project parcels to the northwest and is approximately 500 feet from the nearest Proposed Action facilities (EA Section 1.2.1).

Wetlands and non-wetland waters within the Project Study Area (732 acres) were delineated in October and November 2020 with a final delineation report in June 2021 (EA Appendix C), when a formal request for an Approved Jurisdictional Delineation was submitted to USACE, Sacramento District, to definitively determine and approve the extent of Waters of the United States (WOTUS). The wetland delineation determined that the Proposed Action Area contained wetland areas. Acreages of wetland features are listed in Table 1. See Figure 1 for a reference map showing the action's location with respect to the wetland features.

Table 1. Wetland Resources Within the Proposed Action Area

Wetland Type	Acres
Pond	0.37
Freshwater Wetland	0
Seasonal Wetland	3.10
Vernal Pool	0.25
Total Wetlands	3.72

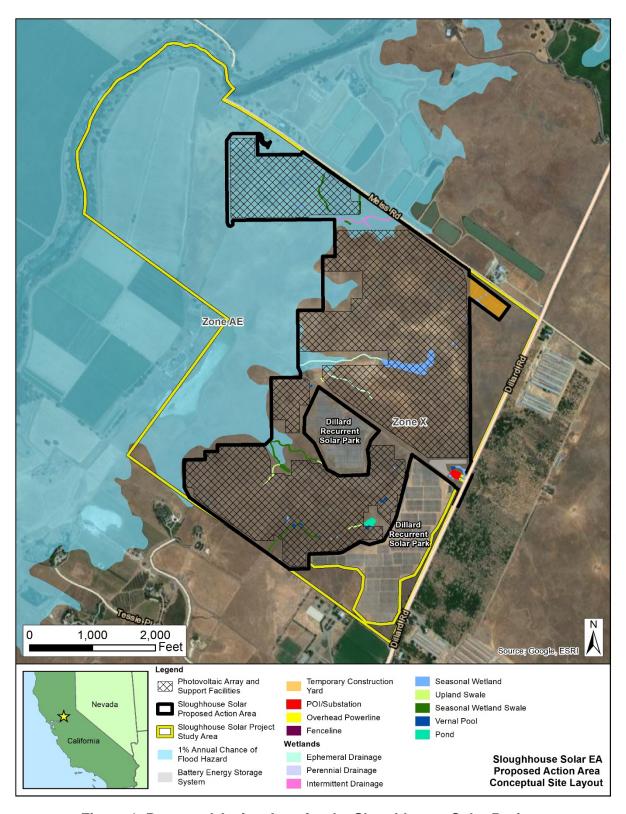


Figure 1. Proposed Action Area for the Sloughhouse Solar Project.

## Step 2 - Preliminary Public Notice

The publication of the Notice of Availability (NOA) for the Draft EA will serve as the Preliminary Public Notice of RUS's intent to carry out an action in a wetland and involve the affected and interested public in the decision-making process. Interested parties are invited to submit comments to RUS during the 14-day public comment period following publication of the NOA.

## **Step 3 – Search for Practicable Alternatives**

Action Alternatives – No practicable action alternatives other than the Proposed Action were identified (EA Section 2.5). More distant sites not adjacent to Sacramento Municipal Utility District (SMUD) infrastructure were dismissed because these locations would increase project costs, would likely increase potential environmental impacts (EA Section 2.2), and would not be feasible to develop and permit on a timeline that meets the purpose and needs of the project (EA Sections 1.3 and 1.4). Ultimately, the Sloughhouse Solar does not own or have the ability to easily acquire other sites in the region in order to provide a viable alternative site location.

Following the siting area selection process the 732-acre Project Study Area was initially identified as the most suitable site. The ability to interconnect to SMUD facilities directly adjacent to the Project Study Area would eliminate the need to construct new powerlines to connect to SMUD facilities as compared to more distant parcels. Sloughhouse Solar revised the Project Study Area footprint to avoid and minimize impacts to environmental resources including wetlands. The reduced footprint is the most practicable action alternative and the Proposed Action for the NEPA evaluation.

No Action Alternative – Under the No Action Alternative, it is assumed the project would not be constructed and there would be no project-related changes to land use, natural resources, or socioeconomics in the immediate future (EA Section 2.6). If the project were not constructed, the State of California would not benefit from the project's contribution towards meeting renewable energy goals and the opportunity to reduce carbon emissions would be lost.

### Step 4 – Identify Adverse Impacts and Beneficial Values/Functions

Beneficial values/functions of wetlands include providing fish and wildlife habitat, supporting biological productivity, maintaining water quality through filtration of chemicals and sediment, mitigating flooding through stormwater storage, and contributing to aesthetics.

Topography would be affected by grading of the site during the construction. The preliminary jurisdictional assessment identified 3.72 potentially jurisdictional acres of wetland features in the Proposed Action Area (Table 1). Potential impacts to wetlands from construction would include habitat loss and changes to water quality. Approximately 0.08 acres of permanent fill of wetlands is anticipated from the Proposed Action and 3.17 acres of wetlands would be temporarily impacted during construction. Indirect construction impacts, which could result from shading by solar panels and changes to water quality from construction runoff from the Proposed Action, are anticipated to potentially affect 2.59 acres. Short-term impacts to wetlands could occur during operations and maintenance activities and decommissioning. Impacts to wetlands during operations and maintenance activities would be intermittent and localized. Impacts during decommissioning would be similar to those during construction.

Overall, the State of California would benefit from the Proposed Action via the proposed solar facilities contribution towards meeting the state's and SMUD's renewable energy goals and the opportunity to reduce carbon emissions due to production of energy from a GHG-free source.

## **Step 5 – Mitigate Adverse Impacts**

The location of the Proposed Action Area within the Project Study Area has been planned to avoid and minimize impacts to wetlands and non-wetland waters to the extent possible and BMPs would be implemented to prevent or minimize direct and indirect impacts to water quality and wetlands. Mitigation measures pertaining to wetlands include, but are not limited to, designing the site to avoid and minimize wetlands impacts to the extent practicable, implementation of practices designed to prevent erosion, sedimentation, and non-point source pollution related impacts, limiting disturbance areas, restore all temporary impacts to potential habitat and aquatic resource buffers to pre-existing conditions to the extent practicable, and provide compensatory mitigation for loss of resources as needed. Through these mitigation measures, loss of wetland habitat would be offset and the natural and beneficial values of wetlands affected by the Proposed Action would be restored to the extent practicable.

Impacts to wetlands and non-wetland waters that cannot be avoided would require authorization prior to construction and would be permitted by the USACE and state and local agencies with jurisdiction, and would be subject to required compensatory mitigation. Potential compensatory mitigation could include the purchase of mitigation credits from and approved wetland mitigation bank, paying an in-lieu fee, or developing conservation. Additional mitigation for wetlands and non-wetland waters for special-status species habitat loss would be implemented in accordance with approved mitigation ratios to achieve no net loss of habitat value. Mitigation for impacts from construction would offset resource loss resulting in negligible to minor impact on wetlands and non-wetland waters.

#### Step 6 – Re-Evaluate Alternatives

The Proposed Action is the preferred alternative. The Proposed Action was designed to avoid wetland impact to the degree practicable and would result in no more than 0.08 acres of wetland impact from fill. The Project Area was decreased from the original area (Project Study Area) by more than 50%, thereby avoiding impacting more wetlands. Sloughhouse Solar would provide compensatory mitigation as needed to offset the loss of wetland habitat. As a result, minor adverse cumulative effects to wetlands are expected from the construction of the Proposed Action. The Proposed Action is the most practicable alternative based on the proximity of the proposed facility to SMUD infrastructure and willing landowners to support the project. The No Action Alternative is not practicable because it fails to address the project need of contributing towards meeting California's and SMUD's renewable energy goals; thus, losing the opportunity to reduce carbon emissions.

## Step 7 - Final Public Notice

Publication of the Finding of No Significant Impact (FONSI), after completion of the Final EA, will serve as the Final Public Notice to provide the public with the finding and explanation of the

Agency's final decisions that the wetland impact is the least damaging practicable alternative and that there is a significant need for the proposed action.

## **Step 8 – Implement Proposed Action with Appropriate Mitigation**

Upon issuance of the FONSI / Final Public Notice, Sloughhouse Solar would oversee the implementation and construction of the proposed project, review the final design plans, and ensure compliance with all applicable federal laws, executive orders, and regulations, as well as state and local laws, regulations, codes, and standards prior to and throughout project construction. Sloughhouse Solar would obtain all required federal, state, and local building and site development permits for impacts to jurisdictional waters prior to construction to preserve the environment.

Other implementation measures and further plans are contingent on final permits/authorizations, Final EA, and FONSI.

## Aquatic Resources Delineation Report

# **Sloughhouse Solar Project**

JUNE 2021 MARCH 2022, REVISED

Prepared for:

**SLOUGHHOUSE SOLAR, LLC** 

1166 Avenue of the Americas, 9th Floor New York, New York 10036

Prepared by:



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# Acronyms and Abbreviations

Acronym/Abbreviation	Definition
amsl	above mean sea level
APN	Assessor's Parcel Number
APT	Antecedent Precipitation Tool
CDFW	California Department of Fish and Wildlife
CFR	Code of Federal Regulations
CWA	Clean Water Act
FAC	Facultative
FACW	Facultative Wetland
FEMA	Federal Emergency Management Agency
FGC	Fish and Game Code
NWI	National Wetlands Inventory
NWPR	National Waters Protection Rule
NWW	Non-Wetlands Waters
OBL	Obligate
OHWM	ordinary high water mark
Project	Sloughhouse Solar Project
PSA	Project Study Area
RWQCB	Regional Water Quality Control Board
SSHCP	South Sacramento Habitat Conservation Plan
TNW	traditionally navigable water
ТОВ	top of bank
USACE	U.S. Army Corps of Engineers
UPL	Upland



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# Revision Statement

Sloughhouse Solar, LLC has prepared this Revised Aquatic Resources Delineation Report (report) for the Sloughhouse Solar Project (Project) to account for changes in regulations pertaining to Clean Water Act Section 401 and 404; to coincide with the findings, project study area(s), and nomenclatures used in the February 2022 version of the Amended Biological Technical Report for the Sloughhouse Solar Project; and to reflect the current Project site plan that avoid and minimizes effects on biological resources and that will be used for regulatory permitting. The revisions provided within this report are summarized as follows:

- Revisions to naming conventions and nomenclature to be consistent with Project wide documentation.
- Updates to the Project Study Area (PSA) acreages, as well as updates to acreage totals pertaining to the solar development area and the adjacent other lands that comprise the PSA.
- A revised Regulatory Setting section to reflect the updated definition of waters of the United States made on December 8, 2021 by the U.S. Environmental Protection Agency (EPA) and U.S. Army Corps of Engineers (USACE). The regulatory updates triggered a revision to the additional regulatory information included in this report, specifically pertaining to the agricultural wetlands, which has subsequently also been revised.
- An update to the vegetation communities and land cover types to be congruent with those disclosed in the February 2022 Amended Biological Technical Report, specifically using the South Sacramento Habitat Conservation Plan (HCP) modeled land cover data.
- Recalculation of acreage outputs were completed and added to the report for the aquatic resource's delineation within the PSA, as well as specific resources falling within the solar development area and adjacent other lands of the PSA.
- Incorporated response to comments per the Aecom Peer Review, March 2022.
- Completed a rigorous OA/OC process, including a fully edited and internal peer review of the revisions.



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# 1 Executive Summary

This Aquatic Resources Delineation Report (report) was prepared in accordance with the U.S. Army Corps of Engineers (USACE) Sacramento District Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (USACE 2016), the USACE Wetland Delineation Manual (USACE 1987), the USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (USACE 2008a), and the USACE Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (USACE 2008b). Dudek conducted a field delineation in October and November 2020 to identify aquatic resources in the approximately 732.26-acre Project Study Area (PSA) that may be potentially subject to agency jurisdiction pursuant to regulations in Sections 401 and 404 of the Clean Water Act (CWA), Porter-Cologne Water Quality Control Act, and California Fish and Game Code (FGC). Specifically, the PSA is comprised of the solar development area of approximately 381.29 acres, and the adjacent other lands of 350.97 acres. Below, Table 1, Summary of Aquatic Resources in the Project Study Area, summarizes the delineation findings. Potential jurisdictional determinations, as discussed in Section 6, Conclusion, are considered preliminary until verified by the USACE Sacramento District.

Table 1. Summary of Aquatic Resources in the Project Study Area

Feature ID	Cowardin Code1	PSA – Total Acreage	PSA – Total Linear Feet
Wetlands			
Freshwater Emergent Wetland	PEM1	0.02	_
Pond	PEM1	17.01	_
Seasonal Wetland	PEM2	14.16	_
Vernal Pool	PEM2	6.30	_
	Total Wetlands (acres)	37.49	_
Non-Wetland Waters <sup>2</sup>			
Ditch	R5	1.93	5,106
Ephemeral Drainage	R6	1.11	3,432
Intermittent Drainage	R4	2.36	4,463
Perennial Drainage	R3	24.10	4,506
Seasonal Wetland Swale	R6	2.15	8,807
Upland Swale	U	0.63	1,838
	Total NWWs (acres)	32.28	28,152
	Total <sup>3</sup>	69.77	28,152

Source: USFWS 2013.

Notes: PSA = Project Study Area.



Cowardin Code: PEM1= persistent, emergent, palustrine; PEM2 = nonpersistent, palustrine, emergent; R3 = upper perennial, riverine; R4 = Intermittent, riverine; R5 = unknown perennial, riverine; R6 = riverine, ephemeral (a wetland, spring, stream, river, pond, or lake that only exists for a short period); U = upland

Acreage of the non-wetland waters (NWWs) extend to ordinary high water and/or where the OHWM is equivalent to the top of bank.

Minor discrepancies in totals are the result of rounding differences between Excel and ArcMap.

#### **Contact Information for Site Access:**

Sloughhouse Solar, LLC is the Project applicant and will act as the primary point of contact for site access.

**Property Owner:** 

Sloughhouse Solar, LLC 1166 Avenue of the Americas, 9th Floor New York, New York 10036

Contact: Daniel Menahem

202.390.7772

daniel.menahem@deshaw.com

Agent:

Dudek

853 Lincoln Way, Suite 208 Auburn, California 95603 Contact: Morgan Kennedy

530.863.4643

mkennedy@dudek.com



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# 2 Introduction

This report documents the methods and results of the aquatic resources delineation within the approximately 732.26-acre PSA for the Sloughhouse Solar Project (Project) in Sacramento County, California (Figure 1). This report identifies the potentially jurisdictional aquatic resources within the PSA that may be subject to agency jurisdiction pursuant to regulations in Section 404 of the Clean Water Act (CWA). This report was produced in accordance with the USACE Sacramento District Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (USACE 2016), the USACE Wetland Delineation Manual (USACE 1987), the USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (USACE 2008a), and the USACE Field Guide to the Identification of the OHWM in the Arid West Region of the Western United States (USACE 2008b). The results of this delineation are considered preliminary until verified by the Sacramento District of USACE.

Furthermore, the delineation conducted within the PSA also defined areas under the jurisdiction of California Department of Fish and Wildlife (CDFW), pursuant to Sections 1600 through 1603 of the California Fish and Game Code (FGC), and the Regional Water Quality Control Board (RWQCB), pursuant to CWA Section 401 and the Porter–Cologne Water Quality Control Act.

## 2.1 Project Description

The Project is a solar photovoltaic energy-generating facility located on the southwest corner of Meiss Road and Dillard Road, adjacent to an existing solar energy facility located at 7794 Dillard Road, Sacramento County, California. The Project is being proposed to be developed by Sloughhouse Solar, LLC (Applicant) to sell its electricity and all renewable and environmental attributes to an electric utility purchaser under long-term contracts to help meet California Renewables Portfolio Standard goals. The Project proponent would construct, operate, and decommission a solar generation and energy storage facility within a solar development area of approximately 381.29 acres (inclusive of solar field, energy storage, Project substation(s), roads, retention basins, etc.) within the greater approximately 732.26-acre PSA. The remaining 350.97 acres of the PSA are being included in this report to be referred to as adjacent other lands. The Project may also include additional auxiliary facilities such as raw water/fire water storage, treated water storage, stormwater retention basins, water filtration buildings and equipment, and equipment control buildings, septic system(s), and parking within the proposed development area. The design and construction of the buildings, solar arrays (panels, etc.), energy storage facilities, and auxiliary facilities will be consistent with Sacramento County building standards. The Project design is preliminary and not yet finalized.

## 2.2 Project Location and Directions

The approximately 732.26-acre PSA is located at the southwest corner of the intersection of Meiss Road and Dillard Road in Sloughhouse in eastern Sacramento County (Figure 1). To get to the PSA from Sacramento, travel east on U.S. 50 for approximately 6 miles. Take exit 11 for Watt Avenue and turn right onto South Watt Avenue, continuing for 1.5 miles. Turn left onto California Highway 16 East/Jackson Road and travel for approximately 12 miles. Turn right onto Dillard Road. In 1.7 miles, the PSA will be located at the southwest corner of Dillard Road and Meiss Road. The PSA can be accessed from gates off both Dillard Road and Meiss Road (Figure 2).

- County: Sacramento
- Public Land Survey System: Cosumnes Land Grant
- U.S. Geological Survey 7.5-Minute Quadrangle: Sloughhouse
- Latitude, Longitude (Decimal Degrees): 38.473731°, -121.184568° (Centroid)
- Assessor Parcel Numbers (APNs): 12601100010000, 12601100030000
- Elevation Range: 95 to 160 feet above mean sea level (amsl)
- Average Elevation: 128 feet amsl
- **PSA:** 732.26 acres



# 3 Regulatory Setting

### 3.1 Federal

#### 3.1.1 Clean Water Act: Section 404

Pursuant to Section 404 of the Clean Water Act, the U.S. Army Corps of Engineers (USACE) regulates the discharge of dredged and/or fill material into waters of the United States. Activities in wetlands or waters for which a USACE permit may be required include, but are not limited to, the placement of fill material due to development, land clearing involving relocation of soil, road construction, erosion control, mining, stockpiling excavation spoils, and utility line or pipeline construction. Activities that generally do not involve a regulated discharge (if performed specifically in a manner to avoid an impact) can include, to an extent, certain drainage channel maintenance activities involving the use of hand tools only or by positioning construction equipment outside of USACE jurisdiction and excavating without stockpiling in jurisdictional areas. Any person or public agency proposing to discharge dredged or fill material into waters of the United States, including jurisdictional wetlands, must obtain a Section 404 permit from USACE.

The wetlands determination process is initiated by submitting either an Approved Jurisdictional Determination or a Preliminary Jurisdiction Determination request along with an Aquatic Resources Delineation Report to determine if USACE-jurisdictional wetlands or other waters are present on the subject property. The wetland determination process is complete with the issuance of a written geographic jurisdictional determination verification from USACE. Compliance is required with Section 404 of the CWA if a project activity will discharge dredged or fill materials to verified waters of the United States, including wetlands. The most common permits issued by the USACE Regulatory Program are Nationwide Permits, intended for those projects with minimal impacts on waters of the U.S., and Individual Permits, intended for those projects that do not qualify for a nationwide permit.

The definition of waters of the United States establishes the geographic scope for jurisdiction under Section 404 of the CWA; however, the CWA does not specifically define waters of the United States, leaving the definition open to statutory interpretation and agency rulemaking. On December 8, 2021, the U.S. Environmental Protection Agency (EPA) and USACE published in the Federal Register a proposed rule revising the definition of waters of the United States (86 Code of Federal Regulations [CFR] 69372-69450). This proposed rule obviates much of the 2020 Navigable Waters Protection Rule implemented during the Trump administration and restores the regulations in effect prior to the Obama Administration's 2015 Clean Water Rule. Moving forward, USACE and EPA propose to reinstate the pre-2015 definition of waters of the United States along with updates to reflect two notable Supreme Court decisions described in more detail below.

#### Rapanos v. United States and Carabell v. United States

In 2007 and again in 2008, USACE and EPA developed guidance for implementing the definition of waters of the United States under the CWA following the *Rapanos v. United States* and *Carabell v. United States* Supreme Court decision (EPA 2008). In accordance with both the original and revised guidance, jurisdiction over these waters will be as follows:

- Traditional navigable waters
- Wetlands adjacent to traditional navigable waters
- Non-navigable tributaries of traditional navigable waters that are relatively permanent (i.e., the tributaries typically flow year-round or have continuous flow at least seasonally)
- Wetlands that directly abut such tributaries

USACE and EPA will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have a significant nexus with a traditional navigable water:

- Non-navigable tributaries that do not typically flow year-round or have continuous flow at least seasonally (i.e., ephemeral stream channels)
- Wetlands adjacent to such tributaries
- Wetlands adjacent to but that do not directly abut a relatively permanent non-navigable tributary

USACE and EPA will apply a significant nexus evaluation to potential waters of the United States as follows:

- A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the
  functions performed by all wetlands adjacent to the tributary to determine if in combination they significantly
  affect the chemical, physical, and biological integrity of downstream traditional navigable waters
- Significant nexus includes consideration of hydrologic and ecologic factors including, but not limited to, volume, duration, and the frequency of surface water flow in the resource and its proximity to a traditional navigable water, and the functions performed by the resource on adjacent wetlands.

#### Solid Waste Agency of Northern Cook County v. USACE

In 2001 and again in 2003, the agencies developed guidance to address the above definition of waters of the United States under the CWA following the Solid Waste Agency of Northern Cook County v. USACE U.S. Supreme Court Decision that "isolated, non-navigable, intrastate" waters could not be claimed as jurisdictional by USACE based on their use by migratory birds (EPA 2000). Although the Supreme Court did not specifically address the meaning of the word "isolated," it upheld the above definition of "adjacent" wetlands (and other waters), which are by definition wetlands that are "bordering, contiguous, or neighboring" other jurisdictional waters. Therefore, the term "isolated wetland" has implicitly been defined as wetlands that are not bordering, contiguous, or neighboring other waters. The 2001 decision did not, however, define the term "adjacent," nor did it state whether the basis for adjacency is geographic proximity or hydrology. As established by the Supreme Court in United States v. Riverside Bayview Homes Inc. in 1985, "wetlands separated from other waters by man-made dikes or barriers, natural river berms, beach dunes, and the like are 'adjacent wetlands.'"



#### Current (Proposed) Definition of Waters of the United States, Including Wetlands

As currently proposed by USACE and EPA, the term waters of the United States include the following (86 CFR 69372-69450):

- 1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- 2. All interstate waters including interstate wetlands;
- 3. "Other Waters" that meet either the "Relatively Permanent Standard" or the "Significant Nexus Standard". All Other Waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation, or destruction of which could affect interstate or foreign commerce including any such waters:
  - a. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
  - b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
  - c. Which are used or could be used for industrial purposes by industries in interstate commerce;
- 4. All impoundments, and wetlands adjacent to impoundments, that meet either the Relatively Permanent Standard or the Significant Nexus Standard;
- 5. Tributaries of waters:
- 6. The territorial seas; and
- 7. Wetlands adjacent to waters (other than waters that are themselves wetlands); waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the U.S.

The Relatively Permanent Standard refers to waters that are relatively permanent, standing, or continuously flowing, and waters with a continuous surface connection to such waters. The Significant Nexus Standard refers to waters that either alone, or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of traditional navigable waters, interstate waters, or the territorial seas (86 CFR 69372-69450).

Wetlands are "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 CFR 328.3). USACE predominantly relies on the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual (USACE 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region – Version 2.0 (USACE 2008a) methodology to determine the presence of jurisdictional wetlands in California. USACE relies on the presence of three criteria to determine if an area is a wetland: hydrophytic vegetation, hydric soils, and hydrology. Hydrophytic vegetation refers to a predominance of plant life that is adapted to life in wet conditions. Hydric soils refer to soils that saturate, flood, or pond long enough during the growing season to develop anaerobic conditions in the upper part. Lastly, hydrology refers to the presence of water, either above the soil surface or within the upper 12 to 18 inches of the soil profile just below the soil surface (USACE 2008a).

For linear, non-wetland waters of the United States (e.g., perennial, intermittent, or ephemeral drainages), the lateral limits of USACE jurisdiction extend to the reliable ordinary high water mark (OHWM). As defined in the CFR Title 33, Section 328.3(e), the OHWM is "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the



character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas." If wetlands are present adjacent to such resources and they meet the Relatively Permanent Standard or the Significant Nexus Standard, then jurisdiction would likely extend to the limit of these wetlands (86 CFR 69372-69450). Further guidance for determining jurisdictional limits in California is detailed in USACE's A Field Guide to the Identification of the Ordinary High Water Mark (OWHM) in the Arid West Region of the Western United States (USACE 2008b).

### 3.1.2 Clean Water Act: Section 401

Section 401 of the CWA provides states and authorized tribes with an important tool to help protect the water quality of federally regulated waters within their borders (i.e., waters of the state), in collaboration with federal agencies. EPA's regulations at 40 CFR 121 address CWA Section 401 certification generally. Under Section 401 of the CWA, a federal agency may not issue a permit or license to conduct any activity that may result in any discharge into water of the United States unless a CWA Section 401 water quality certification is issued, or certification is waived. States and authorized tribes where the discharge would originate are generally responsible for issuing water quality certifications. In California, the applicable Regional Water Quality Control Board issues the Section 401 certification In making decisions to grant, grant with conditions, or deny certification requests, certifying authorities consider whether the federally licensed or permitted activity will comply with applicable water quality standards, effluent limitations, new source performance standards, toxic pollutants restrictions, and other appropriate water quality requirements of state or tribal law. A federal agency may not issue a license or permit for an activity that may result in a discharge into waters of the United States without a water quality certification or waiver (EPA 2022).

#### Current Reconsiderations to Revise CWA Section 401

On May 27, 2021, EPA, in accordance with Executive Order 13990, announced its intention to reconsider and revise the 2020 CWA Section 401 Certification Rule. On October 21, 2021, the U.S. District Court for the Northern District of California issued an order remanding and vacating EPA's 2020 CWA Section 401 Certification Rule (i.e., the 2020 Rule). The vacatur is nationwide. The order requires a temporary return to EPA's 1971 Rule until EPA finalizes a new certification rule. EPA will continue the rulemaking process that was announced in May 2021. As such, under Section 401 of the federal CWA and 40 CFR Part 121, any applicant for a federal license or permit to conduct an activity that may result in a discharge of a pollutant into waters of the United States must comply with applicable provisions of the CWA and state surface water quality standards.

#### Implementation in California

The California State Water Resources Control Board (SWRCB) has authority over waters of the state, including wetlands, through Section 401 of the CWA, the Porter-Cologne Water Quality Control Act (Porter-Cologne Act), California Code of Regulations Section 3831(k), and the California Wetlands Conservation Policy. The CWA requires that an applicant for a Section 404 permit (to discharge dredge or fill material into waters of the United States) first obtain certification from the appropriate state agency stating that the fill is consistent with the state's water quality standards and criteria. In California, the authority to either grant certification or waive the requirement for permits is delegated by the SWRCB to the nine regional boards. The Central Valley RWQCB has authority for Section 401 compliance in the Project region. A request for Water Quality Certification is submitted to the RWQCB while an application is filed with USACE (EPA 2022). If a CWA Section 404 permit is not required for a project, the RWQCB may still require a permit for impacts to waters of the state under the Porter-Cologne Water Quality Control Act.



### 3.2 State of California

### 3.2.1 California Department of Fish and Game Code

#### Lake and Streambed Alteration Program

Under Sections 1600–1616 of the California FGC, CDFW regulates activities that would alter the flow, bed, channel, or bank of streams and lakes. The limits of CDFW's jurisdiction are defined in the code as the "bed, channel or bank of any river, stream, or lake designated by the department in which there is at any time an existing fish or wildlife resource or from which these resources derive benefit." In practice, CDFW usually marks its jurisdictional limit at the top of the stream or bank, or at the outer edge of the riparian vegetation, whichever is wider (CDFW 2022).

Specifically, in Title 14 of the California Code of Regulations, Section 1.56, the definition of "lake" includes "natural lakes or man-made reservoirs." Diversion, obstruction, or change to the natural flow or bed, channel, or bank of any river, stream, or lake that supports fish or other aquatic wildlife requires authorization from CDFW by entering into an agreement pursuant to Section 1602 of the California FGC.

Lastly, in Title 14 of the California Code of Regulations, Section 1.72, CDFW defines a "stream" as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation."

# 3.3 Additional Regulatory Information

### 3.3.1 Agriculture and the Clean Water Act

Under the CWA, discharges of pollutants into waters of the United States are unlawful unless authorized by a permit. Section 404 permits authorize discharges of dredged or fill material into waters of the United States, including wetlands. The USACE and the EPA are both responsible for implementing aspects of the CWA Section 404 permitting program. Most routine, on-going farming activities do not require CWA Section 404 permits. CWA Section 404(f) exempts normal farming, silviculture, and ranching from permitting requirements. However, if a farming activity is associated with bringing waters of the United States into a new use where the flow, circulation, or reach of that water might be affected (e.g., bringing a wetland into agricultural production or converting an agricultural wetland into a non-wetland area), the activity may require a permit (CRS 2020).

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# 4 Methodology

# 4.1 Desktop Analysis

Prior to conducting fieldwork, Dudek reviewed the following available resources to identify portions of the PSA with a probability for containing potential jurisdictional aquatic resources:

- Antecedent Precipitation Tool (APT) (USACE 2020a)
- Federal Emergency Management Agency's (FEMA) National Flood Hazard Layer (FEMA 2019)
- Google Earth current and historical aerial imagery (Google Earth 2020)
- Natural Resources Conservation Service Web Soil Survey (USDA 2020a)
- South Sacramento Habitat Conservation Plan (SSHCP) (County of Sacramento et. al. 2018)
- U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) Mapper (USFWS 2020)
- U.S. Geological Survey Historical Topographical map data (USGS 2020a)
- U.S. Geological Survey National Hydrography Dataset (USGS 2020b)

# 4.2 Aquatic Resources Delineation

Dudek conducted a preliminary aquatic resources delineation of the approximately 742.44-acre PSA on October 27, 29, and 30, 2020; November 4 and 9–13, 2020; and March 3, 2021 (Table 2, Field Survey Schedule, Personnel, and Conditions). Potential aquatic resources were delineated based on methodology described in the USACE Wetlands Delineation Manual (USACE 1987) and the USACE Regional Supplement for the Arid West Region (USACE 2008a). Non-wetland waters of the United States or state were delineated based on the presence of an OHWM, as determined using the methodology in the USACE Engineers Field Guide to the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States (USACE 2008b). Representative photographs of the PSA are included in Appendix A, Photo Record.

**Table 2. Field Survey Schedule, Personnel, and Conditions** 

Date	Hours	Personnel	Conditions
10/27/2020	8:00 a.m 4:00 p.m.	Laura Burris, Allie Sennett, Anna Godinho	43°F -73°F; 0% cloud cover; 0-5 mph wind
10/28/2020	7:45 a.m 4:45 p.m.	Laura Burris, Allie Sennett, Anna Godinho	40°F -85°F; 0% cloud cover; 0-3 mph wind
10/30/2020	7:30 a.m2:30 p.m.	Laura Burris, Anna Godinho	41°F -77°F; 0% cloud cover; 0-3 mph wind
11/04/2020	8:30 a.m3:30 p.m.	Anna Godinho, Paul Keating	64°F -78°F; 0% cloud cover; 0-3 mph wind
11/09/2020	8:00 a.m. – 4:00 p.m.	Allie Sennett, Adam Crawford	33°F -50°F; 0% cloud cover; 0-3 mph wind

**Table 2. Field Survey Schedule, Personnel, and Conditions** 

Date	Hours	Personnel	Conditions
11/10/2020	8:00 a.m4:00 p.m.	Anna Godinho, Adam Crawford	48°F -55°F; 0% cloud cover; 0 mph wind
11/11/2020	7:30 a.m4:45 p.m.	Laura Burris, Allie Sennett	36°F -70°F; 0-20% cloud cover; 0-5 mph wind
11/12/2020	7:30 a.m4:00 p.m.	Allie Sennett, Anna Godinho	33°F -74°F; 0% cloud cover; 0-3 mph wind
11/13/2020	7:30 a.m1:30 p.m.	Laura Burris, Anna Godinho	41°F -57°F; 100% cloud cover; 0-3 mph wind
3/3/2021	10:00 a.m11:00 a.m.	Anna Godinho	46°F -61°F; 100% cloud cover; 0-4 mph wind

### 4.2.1 Field Data Collection Methods

All plant species encountered were identified to the lowest taxonomic level needed to determine wetland plant indicator status. Those species that could not be immediately identified were brought into the laboratory for further investigation. 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 U.S. Department of Agriculture Natural Resources Conservation Service "PLANTS database (USDA 2020b). Wetland plant indicator status for each plant was determined using the National Wetland Plant List for the Arid West Region (USACE 2018). Appendix B, Observed Plant Species Compendium, contains a complete list of plant species observed during the field delineation.

Dudek took sample points on standardized Wetland Determination Datasheets in representative locations to assess the potential for hydric soils, hydrology, and hydrophytic vegetation (see details in Section 4.2.2, Wetland Indicator Assessment). Data at representative stream transects were collected on standardized OHWM Datasheets to assess channel hydrology and geomorphology. Sample point Wetland Determination and OHWM Datasheets are included in this report as Appendix C, Datasheets. Wetland sample points and stream transects were recorded in the field using a Trimble R1 GNSS Receiver with sub-meter accuracy and ArcGIS Collector app for iOS. Results of the wetland sample points, and stream transect analyses are presented in Section 5.3, Sample Point and Transect Summary.

### 4.2.2 Wetland Indicator Assessment

Pursuant to the USACE protocols (USACE 1987; USACE 2008a), key explicit environmental criteria for determining the presence of potential jurisdictional aquatic resources in the PSA are as follows:

- Soil: Soil characteristics that result from the influence of periodic or permanent inundation or soil saturation for extended periods that further affect anaerobic conditions (i.e., chemical reduction in the soils or hydric soils).
- Hydrology: The presence of inundated or saturated soil conditions resulting from permanent or periodic inundation by groundwater or surface water.
- Vegetation: A prevalence of vegetation typically adapted for life in saturated soil conditions (i.e., hydrophytic vegetation).



Positive indicators of all three parameters are normally present in wetlands. Presence of primary and secondary wetland hydrology indicators were documented for each identified aquatic resource feature in the PSA. Potential jurisdictional wetlands exhibiting atypical conditions were delineated in accordance with USACE protocols (USACE 1987; USACE 2008a) for situations involving vegetation, soil, and hydrology that may be naturally problematic and/or significantly disturbed.

## 4.3 Ordinary High Water Mark Assessment

The U.S. Army Corps of Engineers Field Guide to the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States (USACE 2008b) was used to provide technical guidance for delineating the OHWM, which is based on the physical and biological signatures established and maintained at the boundaries of an active channel. The OHWM guide addresses the underlying hydrologic and geomorphic concepts pertaining to the OHWM and the field indicators, methods, and additional lines of evidence used to assess and delineate the OHWM. Delineation of the active channel signature (i.e., the OHWM) is based largely on identification of three primary physical or biological indicators (USACE 2008b):

- Topographic break in slope
- Change in sediment characteristics
- Change in vegetation characteristics (species or cover)

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# 5 Results

# 5.1 Environmental Setting

The PSA is located within eastern Sacramento County at the eastern edge of the Central Valley, less than 15 miles from the western foothills of the Sierra Nevada Mountains. The PSA is less than 1 mile south of State Route 16 and approximately 18 miles southeast of the City of Sacramento. The PSA is surrounded by rural residential development and open space generally composed of annual grassland and agricultural fields. A retention basin complex associated with a caviar farming facility adjoins the Project to the north; the Cosumnes River adjoins the PSA to the west; and an existing solar development is located within the southeast corner of the PSA. An orchard is located across Dillard Road to the southeast. The PSA is primarily used for cattle grazing or other agricultural operations, and there is an existing solar facility (Figure 2).

#### 5.1.1 Climate and Rainfall

The PSA is in a semi-arid climate where average annual temperatures range from approximately 53°F to 91°F, and the average annual precipitation is 18.15 inches. On average, the months with the highest rainfall are December and January, and July has the least precipitation (WRCC 2020).

According to data from the Sacramento WB City weather station, total precipitation recorded from October 1, 2019, through September 30, 2020, was 17.92 inches, approximately 61% of normal (CDEC 2020). Therefore, the Project region had below normal hydrological conditions in the year preceding the survey. The Sacramento WB City weather station is located approximately 18 miles west of the PSA at an elevation of approximately 25 feet amsl.

The USACE APT was used to assess the amount of precipitation received in the review area during the delineation (USACE 2020a). The tool calculated that the watersheds within the review area (sampled at Hydrologic Unit Code 8 geographic scope) experienced, on average, normal antecedent precipitation conditions on the dates that the delineation fieldwork was conducted (October 27 through November 13). The complete results of the APT query can be found in Appendix D, Antecedent Precipitation Tool Output.

### 5.1.2 Soil and Terrain

The PSA is in the eastern Central Valley. Elevations of the PSA range from approximately 95 feet amsl in the western portion of the PSA, to 160 feet amsl in the southeastern portion of the PSA.

According to the Natural Resources Conservation Service (USDA 2020a), 16 soil units were mapped within the PSA. Each soil unit, its proportion of hydric soils, drainage class (i.e., frequency and duration of wet periods in conditions like those in which it was developed), and typical landform or geomorphic position within the landscape is detailed in Table 3, Summary of Soil Units in the PSA below (Figure 3) (USDA 2020a).

Six of the 16 soil units identified in the PSA are listed as hydric soils. Hydric soils are defined by the National Technical Committee for Hydric Soils as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part. Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation. Soils encountered during the field visits were generally clay to clay loam soils.

**Table 3. Summary of Soil Units Within the Project Study Area** 

Soil Map Unit Name	Landform	Drainage Class	Hydric	Total Area (acres)
Bruella sandy loam, 0%-2% slopes	Terraces	Well-drained	No	2.44
Bruella sandy loam, 2%-5% slopes	Terraces	Well-drained	No	58.80
Columbia sandy loam, 0%-2% slopes	Flood plains	Somewhat poorly drained, occasionally flooded	Yes	17.93
Galt clay, 0%-1% slopes, MLRA 17	Basin floors on fan remnants	Somewhat poorly drained	Yes	33.0
Galt clay, 2%-5% slopes, MLRA 17	Basin floors on fan remnants	Moderately well drained	Yes	126.62
Hadselville-Pentz complex, 2%–30% slopes	Hills	Moderately well drained to well drained	No	226.32
Peters clay, 1%–8% slopes	Hills	Well drained	No	56.94
Redding gravelly loam, 0%–8% slopes, MLRA 17	Fan remnants	Moderately well drained	No	14.93
Reiff fine sandy loam, 0%-2% slopes	Flood plains	Well drained, occasionally flooded	No	96.11
Sailboat silt loam, drained, 0%-2% slopes, MLRA 17	Flood plains on natural levees	Somewhat poorly drained, occasionally flooded	Yes	3.50
San Joaquin silt loam, 0%-3% slopes	Terraces	Moderately well drained	No	14.02
San Joaquin silt loam, 0%-8% slopes	Terraces	Moderately well drained	No	52.45
San Joaquin-Durixeralfs complex, 0%–1% slopes	Terraces	Moderately well drained to well drained	No	0.25
San Joaquin-Galt complex, leveled, 0%–1% slopes	Terraces	Moderately well drained	Yes	0.52
San Joaquin-Galt complex, 0%–3% slopes	Terraces	Moderately well drained	Yes	18.59
San Joaquin-Xerarents complex, leveled, 0%-1% slopes	Terraces	Moderately well drained to well drained	No	3.52

Source: USDA 2020c.

Note: MLRA = Major Land Resource Area.

# 5.1.3 Watershed and Hydrology

The PSA occurs within the Upper Cosumnes River watershed, which drains approximately 180 square miles of land in El Dorado, Amador, and Sacramento Counties (Hydrological Unit Code 1804001306) (CDFW 2020). A complex

<sup>&</sup>lt;sup>1</sup> Hydric soil- defined by the USADA (i.e., formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part); if hydric conditions are present within the soil unit.

of seasonally inundated aquatic features generally drains the PSA in a southwesterly direction, and the Cosumnes River flows within the western boundary of the PSA. The western half of the PSA is located within the FEMA National Flood Hazard Layer 1% 100-year floodplain of the Cosumnes River (FEMA 2019). However, the portion of the Cosumnes River within the PSA is bounded by levees intended to contain the river and protect against overtopping during a normal rain year. The NWI maps numerous aquatic resources in the PSA, including Freshwater Emergent Wetland, Freshwater Forested/Shrub Wetland, Freshwater Pond, and Riverine (USFWS 2020). The NWI dataset is based on coarse aerial mapping (Figure 4).

Additionally, Appendix E, Land Cover Type Report for the SSHCP contains numerous other aquatic resources that were previously mapped within the PSA when the SSHCP was created (County of Sacramento et. al. 2018). The original SSHCP geographic model of aquatic resources, including vernal pool and swale land cover types, are based on interpretation of black and white aerial imagery dated March 2001. During SSHCP preparation, field surveys were conducted within selected parcels to provide recognition of signatures for aerial interpretation of the inaccessible portions field survey area. Those uncertain areas that were not contained in the field survey areas or easily identified from aerial photographs were spot-checked from public roads as feasible. The SSHCP identified individual vernal pool watershed boundaries using LIDAR data (i.e., County of Sacramento et. al. 2018 and flow modeling).

### 5.1.4 Vegetation Communities and Other Land Cover Types

Vegetation communities and land cover types within the PSA consist of a combination of terrestrial non-vegetative land covers and natural vegetation communities. The vegetation communities and land covers within the PSA were mapped using the SSHCP land cover data (County of Sacramento et. al. 2018). SSHCP vegetation communities and land cover types occurring within the PSA include agricultural, California annual grassland, low density development, mixed riparian forest, urban, valley foothill riparian, and valley grassland. A total of 75 species of native or naturalized plants—34 native (45%) and 41 non-natives (55%)—were recorded in the PSA during the field delineation (see Appendix B, Observed Plant Species Compendium).

### 5.1.4.1 Natural Vegetation Communities

California Annual Grassland and Valley Grassland. California annual grassland and valley grassland are the dominant vegetation community present in the PSA. Dominant species in this community include soft brome (Bromus hordeaceus), medusa head (Elymus caput-medusae), and narrow tarweed (Holocarpha virgata). The shrub and tree layers are absent from this vegetation community. There are numerous aquatic features that occur throughout the grassland.

Mixed Riparian Woodland and Valley Foothill Riparian. Mixed riparian woodland and valley foothill riparian comprise the riparian corridor adjacent to the Cosumnes River, a portion of which is located within the PSA. Valley oak (Quercus lobata) was the dominant overstory species, with a lesser abundance of Fremont's cottonwood (Populus fremontii), Goodding's black willow (Salix gooddingii), Northern California walnut (Juglans hindsii), and coast live oak (Quercus agrifolia). Shrubs occurred intermittently and included Himalayan blackberry (Rubus armeniacus), elderberry (Sambucus sp.), and California grape (Vitis californica). The herbaceous layer was dominated by disturbance-tolerant upland species, including yellow star-thistle (Centaurea solstitialis), Italian plumeless thistle (Carduus pycnocephalus), and non-native grasses like those described for California annual grassland and valley grassland vegetation communities above.

### 5.1.4.2 Other Land Cover Types

**Agricultural.** Agricultural land cover comprises a large field to the east of the Cosumnes River riparian corridor and levee. Land cover classified as agricultural typically includes lands where farming and other agricultural practices take place, including pastures (hay and alfalfa), row crops and other unidentified croplands.

Low Density Development and Urban. These land cover types include areas that have been completely altered by human activities and contain little to no vegetation. Such areas include buildings, paved and gravel roadways and trails, gravel lots, and other constructed environments. Low density development and urban areas within the PSA include two residences along Meiss Road and are primarily concentrated in the northwestern vicinity of the PSA.

# 5.2 Aquatic Resources Delineation Results

Ten aquatic resource types were documented in the PSA and are described in further detail below: freshwater emergent pond, seasonal wetland, vernal pool, ditch, ephemeral drainage, intermittent drainage, perennial drainage, seasonal wetland swale, and upland swale. Figure 5-1 through Figure 5-6).

#### 5.2.1 Wetlands

### 5.2.1.1 Freshwater Emergent Wetland

One freshwater emergent wetland comprising approximately 0.02 acres occurs in the southwest corner of the PSA artificially created by a broken bubbler sprinkler located on an adjacent property (see Photo 1 in Appendix A, Photo Record). This feature was saturated at the time of the field survey and supported emergent hydrophytic vegetation dominated by broadleaf cattail (*Typha latifolia*; obligate [OBL]) and Baltic rush (*Juncus balticus*; facultative wetland [FACW]). The wetland contained hydric soils as indicated by redox features (Hydric Soil Indicator F6), and wetland hydrology was confirmed by the presence of oxidized rhizosphere along living roots (Hydrology Indicator C3) and saturation (Hydrology Indicator A3). This feature is clearly the result of artificial irrigation and would likely convert to upland vegetation if the leakage was fixed.

### 5.2.1.2 Pond

There are three ponds comprising approximately 17.01 acres within the PSA. These features are natural closed depressions that have been artificially augmented by a perennial water source, generally for the purpose of supporting livestock. Pond-01 located within the western portion of the PSA (see Photo 4 in Appendix A, Photo Record) appears to have been created by an overflowing cattle trough and contained surface water (Hydrology Indicator A1) at the time of the October/November field delineation. Pond-02 located within the eastern portion of the PSA appears to have been artificially supplemented by a well in the past as evidenced by inundation visible on aerial imagery (Hydrology Indicator B7) but was dry at the time of the October/November fieldwork. These two ponds contained hydric soils as indicated by redox features (Hydric Soil Indicator F3).

Pond-03 is a large feature that occurs along the western boundary of the central portion of the PSA and continues outside of the PSA to the west. Although this feature is classified by the NWI as a freshwater emergent wetland (USFWS 2020), the area was dry during the October/November field delineation and was actively being graded by heavy machinery. Pond-03 had been artificially excavated and leveled to several feet lower than the surrounding

topography, with the soil stockpiled along the western boundary. Furthermore, during the March site revisit, Pond-03 was completed inundated and at full capacity. The southeastern boundary of the feature was mapped according to the extent of stinkwort (*Dittrichia graveolens*; upland [UPL]) growing within the basin margin. Pond-03 was mostly barren of vegetation due to the heavy livestock grazing and recent maintenance activities (see Photo 5 in Appendix A, Photo Record). Hydric soils were also absent, but wetland hydrology was confirmed by the presence of surface soil cracks (Hydrology Indicator B6) and inundation visible on aerial imagery, as recently as June 2020 (Google Earth 2020) (Hydrology Indicator B7). The current hydrology of Pond-03 is unknown; however, the basin appears to receive seasonal flows from the main drainage complexes on site to the southeast and northeast and may receive overflow from the Cosumnes River, located approximately 0.4 to 0.6 miles to the west and north.

#### 5.2.1.3 Seasonal Wetland

There are 51 seasonal wetlands comprising approximately 14.16 acres throughout the PSA. These features only appear to be inundated seasonally, and some are connected via seasonal wetland swales, ephemeral drainages, and/or intermittent drainages. Seasonal wetlands were characterized by a distinct change in vegetation type and cover from the surrounding grassland (see Photos 2 and 3 in Appendix A, Photo Record). The seasonal wetlands contain a dominance of facultative (FAC) grasses, including perennial rye grass (Festuca perennis) and mouse barley (Hordeum marinum). The wetlands contained hydric soils as indicated by depleted matrix, redox dark surface, and redox depressions (Hydric Soil Indicators F3, F6, and F8). Wetland hydrology was confirmed by the presence of oxidized rhizospheres along living roots, surface soil cracks, and/or saturation visible on aerial imagery (Hydrology Indicators C3, B6, and C9). Small mammal burrows were observed within several of the features, indicating that these features remained dry for a long enough period for subterranean animals to inhabit them. No surface water or saturation was present in the seasonal wetlands during the October/November 2020 fieldwork.

The seasonal wetland (i.e., SW-24) that is located downslope from a large linear agricultural irrigation system may have been artificially augmented by the irrigation system; however, it is still located within a natural depression within the landscape and further exhibits natural drainage patterns. This feature therefore meets the classification of an artificial irrigated wetland (i.e., "leaky ditch wetland") because it would likely retain wetland parameters (i.e., hydrophytic vegetation, hydric soil, and hydrologic indicators) if the agricultural irrigation operations were to cease. This feature does not meet the criteria to be classified as a "prior converted cropland."

#### 5.2.1.4 Vernal Pool

There are 17 vernal pools comprising approximately 6.30 acres within the PSA. These features were characterized as three-parameter wetlands with an impermeable layer such as a hard pan that may fill and empty several times during the rainy season. These features may be isolated or connected to larger vernal complexes via swales. The vernal pools on site exhibited concentric rings of distinctly different vegetation cover and species composition (see Photo 6 in Appendix A, Photo Record), the center of which was generally devoid of vegetation due to prolonged inundation and surrounded by a predominance of hydrophytic species such as Great Valley eryngo (*Eryngium castrense*; OBL), prostrate knotweed (*Polygonum aviculare*; FACW), turkey tangle fog fruit (*Phyla nodiflora*; FACW), and bracted popcorn flower (*Plagiobothrys bracteatus*; FACW), as well as facultative grasses growing along the feature margins. The vernal pools contained hydric soils as indicated by depleted matrix, redox dark surface, and redox depressions (Hydric Soil Indicators F3, F6, and F8). Wetland hydrology was confirmed by the presence of oxidized rhizospheres along living roots and surface soil cracks (Hydrology Indicators C3 and B6). No surface water or saturation was present in the vernal pools during the October/November 2020 fieldwork. Inundation was visible

on aerial imagery during wet years (i.e., 2006, 2011) (Google Earth 2020) (Hydrology Indicator B7), and cow punches and evidence of grazing were documented in most of the vernal pools on site.

#### 5.2.2 Non-Wetland Waters

#### 5.2.2.1 Ditch

There are three ditches comprising approximately 1.93 acres (5,1055.55 linear feet) throughout the PSA. The earthen ditches are human-made features with intermittent hydrology intended for stormwater, agricultural, irrigation, runoff, or similar purposes. Evidence of an OHWM within the ditches includes a break in slope, bed and bank, and change in plant community, and deposition within Ditch-02. Ditch-01 supports emergent vegetation along the bank margins, including perennial rye grass, mouse barley, soft rush (*Juncus effusus*; FACW), and Valley oak and Goodding's willow saplings. Ditch-02 supports upland vegetation along the banks including fennel (*Foeniculum vulgare*; UPL) and perennial pepperweed (*Lepidium latifolium*; UPL) (see Photo 7 in Appendix A, Photo Record). Ditch-01 continues north at the southeastern corner of the PSA, but the bed and bank dissipate along the eastern boundary. The current use of Ditch-01 is unclear, and parts of the feature were being used as a livestock pen at the time of the fieldwork. Ditches 03 and D-04 are connected hydrologically via culverts and run parallel on the east and west sides of Dillard Road at the existing solar facility within the PSA. Dominant species present within the drainages D-03 and D-04 include ripgut brome (*Bromus diandrus*), wild oats (*Avena fatua*), and Medusa head (*Elymus caput-medusae*), all of which are not listed with indicators by the USACE. Although inundation is visible on aerial imagery (Hydrology Indicator B7) (Google Earth 2020), all ditches were dry during the October/November and March field delineation. There is no continuous riparian corridor associated with the features in the PSA.

### 5.2.2.2 Ephemeral Drainage

There are four ephemeral drainages comprising approximately 1.11 acres (3,431.84 linear feet) within the PSA. Ephemeral drainages on site consist of stream channels that are naturally occurring rather than anthropogenically created, and contain flowing water during, and for a short duration after, precipitation events. Hydrology of the ephemeral drainages is dependent on inputs during rain events and runoff from the surrounding uplands, with evidence of OHWM including shelving, a break in slope, sediment sorting, bed and bank, bent vegetation, and/or a change in plant community and cover (see Photo 8 in Appendix A, Photo Record). Where vegetation was present, the ephemeral drainages contained a dominance of hydrophytic species like those described for seasonal wetlands and vernal pools. These drainages flow in a southwesterly direction and terminate into Pond-O3 via culverts. These drainages were dry at the time of the October/November 2020 fieldwork. There are no continuous riparian corridors associated with these features in the PSA.

### 5.2.2.3 Intermittent Drainage

One intermittent drainage comprising approximately 2.36 acres (4,462.81 linear feet) within the PSA. Intermittent drainages generally have flowing water during certain times of the year, when groundwater provides water for stream flow, and receive supplemental water from rainfall runoff. The intermittent drainage on site appears to receive water via a culvert from a basin complex located north of the PSA. Evidence of an OHWM and presence of hydrophytic vegetation is like that described for ephemeral drainages above (see Photo 9 in Appendix A, Photo Record); however, the feature exhibits a mild break in slope and lacks a defined bed and bank in places. The drainage receives water from two adjacent seasonal wetland swales, contains three seasonal wetlands within low

points or widenings, and terminates into Pond-03. Although inundation is visible on aerial imagery, this drainage was dry at the time of the October/November fieldwork.

#### 5.2.2.4 Perennial Drainage (Cosumnes River)

The northwestern portion of the PSA contains 24.10 acres (4,506.29 linear feet) of the Cosumnes River and its associated riparian corridor (previously described in Section 5.1.4). The Cosumnes River is a known jurisdictional water with perennial flows that originates in the Sierra Nevada mountains and flows approximately 50 miles into the Central Valley, emptying into the Mokelumne River in the Sacramento San Joaquin Delta. The riverbed consists of granite slabs and unconsolidated sand beaches. The OHWM of the river was mapped based on the presence of wracking, sediment sorting, shelving, and a change in vegetation type and cover. The top of bank (TOB) was delineated using 2-foot-wide topographic contours, and the extent of riparian woodland, where present beyond TOB, was mapped to the dripline of riparian vegetation. The river contained flowing water at an estimated depth of 10 feet during the October/November fieldwork (see Photo 10 in Appendix A, Photo Record).

#### 5.2.2.5 Seasonal Wetland Swale

There are 15 seasonal wetland swales comprising approximately 2.15 acres (8,807.17 linear feet) within the PSA. Seasonal wetland swales on site consist of topographic depressions that would be expected to convey water when inundated, but where a defined bed and bank and typical fluvial indicators are lacking (see Photo 11 in Appendix A, Photo Record). These features were generally delineated by a mild break in slope and change in vegetation type and cover. These features were dominated by facultative wetland grasses like those described for seasonal wetlands above. All swales on site were dry at the time of the October/ November 2020 fieldwork.

### 5.2.2.6 Upland Swale

There are seven upland swales comprising approximately 0.62 acres (1,735.02 linear feet) within the PSA. Upland swales on site consisted of linear topographic depressions that lack a distinct OHWM. These features contain a mild break in slope and a slight change in vegetation type and cover but did not support a dominance of wetland vegetation (see Photo 12 in Appendix A, Photo Record). These features contained upland grasses and facultative wetland grasses, like those described for annual grassland and seasonal wetlands above.

## 5.3 Sample Point and Transect Summary

Results from observable field indicators from 191 wetland data points and 48 stream transects indicate that approximately 69.77 acres of aquatic resources occur on the PSA (Figure 5-1 through Figure 5-6). The data collected at each data point and transect are included in Appendix C and summarized in Tables 4, Wetland Data Point Summary and Table 5, Ordinary High-Water Mark Transect Data Summary.



**Table 4. Wetland Data Point Summary** 

Data	Wetland Determination Field Indicators			Location	
Point	Vegetation	Soils	Hydrology	(Decimal Degrees- Latitude, Longitude)	Determination
1	Yes	Yes	Yes	38.4754186330251°, -121.174582691202°	SW-01
2	No	No	No	38.4754050524633°, -121.174569176893°	UPL
3	Yes	Yes	Yes	38.475237565099°, -121.174708853176°	SW-03
4	No	No	Yes	38.4752404366534°, -121.1746519864°	UPL
5	Yes	Yes	Yes	38.474893079189°, -121.174905695509°	SWS-01
6	No	Yes	Yes	38.4749486294873°, -121.174546480288°	UPL
7	Yes	Yes	Yes	38.4745082419188°, -121.174441771786°	SW-06
8	Yes	Yes	Yes	38.4744477842912°, -121.175323476041°	SW-07
9	Yes	Yes	Yes	38.4742124014539°, -121.174704963506°	SW-08
10	Yes	Yes	Yes	38.4743603501743°, -121.174846266603°	SW-10
11	Yes	Yes	Yes	38.474049421772°, -121.174525706327°	SW-11
12	No	Yes	Yes	38.4740419661238°, -121.174540771055°	UPL
13	Yes	Yes	Yes	38.4741080655637°, -121.173213779399°	VP-01
14	Yes	Yes	Yes	38.4740117895045°, -121.174267368256°	VP-10
15	No	No	Yes	38.474037523437°, -121.174223864429°	UPL
16	Yes	Yes	Yes	38.4738362355615°, -121.173920497178	SW-12
17	Yes	Yes	Yes	38.4738083030622°, -121.173991677677°	SW-13
18	No	No	Yes	38.4737935681052°, -121.174040415381°	UPL
19	Yes	Yes	Yes	38.473330689436°, -121.172476677056°	VP-02
20	Yes	Yes	Yes	38.4732657114305°, -121.172720604998°	SW-14
21	Yes	Yes	Yes	38.4730223002372°, -121.172814557955°	VP-03
22	No	Yes	Yes	38.4730330393976°, -121.172952837421°	UPL
23	Yes	Yes	Yes	38.4726831482453°, -121.173109249477°	SW-15
24	Yes	Yes	Yes	38.4730470471802°, -121.174092386152°	SW-16
25	Yes	Yes	Yes	38.4734797041551°, -121.174092281208°	SW-17
26	No	No	Yes	38.4735135381858°, -121.17415697019°	UPL
27	Yes	Yes	Yes	38.4720898213128°, -121.173110506072°	SW-18
28	No	Yes	Yes	38.4720419991565°, -121.17307064834°	UPL
29	Yes	Yes	Yes	38.4723086659755°, -121.173493276561°	SW-19
30	No	Yes	Yes	38.4722573687167°, -121.173484360521°	UPL
31	No	Yes	No	38.4693780269174°, -121.174492672561°	UPL
32	No	No	Yes	38.4751448504266°, -121.172981898848°	UPL
33	Yes	Yes	Yes	38.47552312777°, -121.174324415367°	SW-02
34	No	No	No	38.4755036437444°, -121.174275372976°	UPL
35	Yes	Yes	Yes	38.4746666326274°, -121.174970523533°	SW-04
36	No	No	No	38.4746352886514°, -121.174985155968°	UPL
37	No	Yes	Yes	38.4748923075593°, -121.174879884115°	UPL
38	Yes	Yes	Yes	38.4750226585163°, -121.174582124087°	SW-05
39	No	No	No	38.4745442734361°, -121.174375814772°	UPL



**Table 4. Wetland Data Point Summary** 

Data	Wetland Deter		า	Location	
Point	Vegetation	Soils	Hydrology	(Decimal Degrees- Latitude, Longitude)	Determination
40	No	No	No	38.4744274121078°, -121.175377320373°	UPL
41	No	Yes	Yes	38.4741717637339°, -121.174681627642°	UPL
42	Yes	Yes	Yes	38.4745501186631°, -121.174795733759°	SW-09
43	No	Yes	Yes	38.4745807500367°, -121.17475422692°	UPL
44	No	Yes	Yes	38.4743922042641°, -121.174811091357°	UPL
45	Yes	Yes	Yes	38.4741373569424°, -121.172928359906°	VP-01
46	No	No	No	38.4740867003515°, -121.17357476201°	UPL
47	No	No	Yes	38.4738922814085°, -121.173884640916°	UPL
48	No	No	Yes	38.473311993568°, -121.172543258261°	UPL
49	No	No	Yes	38.4732017363579°, -121.172729060798°	UPL
50	No	Yes	Yes	38.4729875632962°, -121.172849661369°	UPL
51	Yes	Yes	Yes	38.4730255415773°, -121.173014239268°	VP-04
52	No	Yes	No	38.4726118476465°, -121.173080912361°	UPL
53	No	No	Yes	38.4729231647314°, -121.17407326579°	UPL
54	No	Yes	Yes	38.4732422017183°, -121.172183962375°	UPL
55	Yes	Yes	Yes	38.4751868777436°, -121.173043020309°	SW-20
56	Yes	Yes	Yes	38.4685419773286°, -121.17501438415°	SW-21
57	No	Yes	Yes	38.4687873084898°, -121.175463876799°	UPL
58	No	Yes	Yes	38.468890684568°, -121.176691671627°	UPL
59	No	Yes	Yes	38.46792084319°, -121.176086063914°	UPL
60	No	Yes	Yes	38.4686856949598°, -121.176250252023°	UPL
61	No	No	No	38.4676270252347°, -121.176476181084°	UPL
66	No	No	Yes	38.4734718976133°, -121.176220391057°	UPL
67	Yes	Yes	Yes	38.4732869632782°, -121.175974427288°	SW-26
68	No	No	Yes	38.4732715895606°, -121.175925837094°	UPL
69	No	No	No	38.4727056253697°, -121.175737659115°	UPL
70	No	Yes	Yes	38.4771662777409°, -121.176513594024°	UPL
72	No	Yes	Yes	38.4685789780434°, -121.175074969026°	UPL
73	Yes	Yes	Yes	38.4679455471973°, -121.176199810475°	VP-11
74	Yes	Yes	Yes	38.4676051352642°, -121.176340462636°	SW-23
77	Yes	Yes	Yes	38.4725695249179°, -121.179606495101°	SW-24
78	No	Yes	No	38.47272807375°, -121.179349804986°	UPL
79	Yes	Yes	Yes	38.473460359364°, -121.176163225498°	SW-25
80	Yes	Yes	Yes	38.4727755476728°, -121.175825493726°	SW-27
81	Yes	Yes	Yes	38.4771516297374°, -121.176408253869°	SW-28
84	Yes	Yes	Yes	38.4789010347267°, -121.180817281716°	SW-29
85	No	No	No	38.4789885910486°, -121.180826377143°	UPL
86	No	Yes	Yes	38.4789733839293°, -121.183347257577°	UPL
88	No	No	Yes	38.4758356379272°, -121.183535512484°	UPL

**Table 4. Wetland Data Point Summary** 

Data	Wetland Deter		ı	Location	
Point	Vegetation	Soils	Hydrology	(Decimal Degrees- Latitude, Longitude)	Determination
89	Yes	Yes	Yes	38.4755511491054°, -121.18251232532°	SW-32
91	No	Yes	Yes	38.4728665747574°, -121.186535247721°	UPL
92	Yes	Yes	Yes	38.4787520712829°, -121.183179425309°	SW-30
93	Yes	Yes	Yes	38.4748166763795°, -121.18731122361°	SW-31
94	No	Yes	Yes	38.4750690657118°, -121.187441134049°	UPL
95	No	Yes	Yes	38.4777159419566°, -121.180226396201°	UPL
97	No	No	Yes	38.4757294349405°, -121.182404715255°	UPL
98	Yes	Yes	Yes	38.4729320693629°, -121.185973994996°	SW-33
99	No	Yes	Yes	38.4729933571597°, -121.185992559927°	UPL
100	Yes	Yes	Yes	38.472847624572°, -121.186516134945°	SW-34
104	No	No	No	38.4844449098275°, -121.188606771734°	UPL
105	Yes	No	No	38.4815555935982°, -121.188480470668°	UPL
107	Yes	No	No	38.4810897190523°, -121.189209221109°	UPL
108	Yes	No	No	38.4809830929115°, -121.189050624304°	UPL
109	No	No	No	38.4796801407079°, -121.189536944272°	UPL
110	No	No	No	38.4793320688604°, -121.190244552556°	UPL
111	No	No	No	38.4818566032021°, -121.195232621515°	UPL
112	Yes	No	No	38.4818383545167°, -121.18911404716°	UPL
113	Yes	No	No	38.4817925618439°, -121.188940548153°	UPL
114	Yes	No	No	38.4812876663448°, -121.188633037916°	UPL
115	Yes	No	No	38.4811803201695°, -121.189098785624°	UPL
116	Yes	Yes	Yes	38.4793083718446°, -121.189641253159°	VP-05
117	Yes	Yes	Yes	38.4795082889358°, -121.189469640125°	VP-05
119	Yes	Yes	Yes	38.4793960093755°, -121.190237940171°	SWS-02
121	Yes	Yes	Yes	38.4715608837399°, -121.183968791674°	VP-06
122	No	Yes	Yes	38.4715326446474°, -121.183911777101°	UPL
123	No	Yes	Yes	38.4738392962745°, -121.187626459924°	UPL
124	No	No	Yes	38.4737167026333°, -121.188974273633°	P-03
125	No	No	No	38.4694834943683°, -121.192941316571°	UPL
126	Yes	Yes	Yes	38.4717177517749°, -121.18622070992°	SW-36
127	No	No	No	38.4716973319614°, -121.186285397499°	UPL
128	No	No	No	38.4722160509849°, -121.188501627453°	UPL
129	Yes	Yes	Yes	38.4732164369024°, -121.186846579105°	SW-35
130	No	Yes	Yes	38.4732601810485°, -121.18681341408°	UPL
132	Yes	Yes	Yes	38.4739574471587°, -121.187628114375°	VP-17
133	No	No	No	38.4738330763322°, -121.189187759512°	UPL
134	No	Yes	Yes	38.4696303136681°, -121.192574462914°	P-03
135	Yes	Yes	Yes	38.4721280234723°, -121.18883952129°	SW-37
136	Yes	Yes	Yes	38.4818975956699°, -121.185559615503°	P-01



**Table 4. Wetland Data Point Summary** 

Data	Wetland Determination Field Indicators			Location	
Point	Vegetation	Soils	Hydrology	(Decimal Degrees- Latitude, Longitude)	Determination
140	No	Yes	Yes	38.4794220916123°, -121.184444880862°	UPL
141	Yes	Yes	Yes	38.4829599683616°, -121.18661720739°	SW-42
142	No	No	No	38.4829770443251°, -121.186447670987°	UPL
144	No	Yes	Yes	38.469919524289°, -121.190057601015°	UPL
145	No	Yes	Yes	38.4670431089579°, -121.191426078209°	UPL
146	No	No	No	38.4677772338734°, -121.184865824089°	UPL
147	Yes	No	Yes	38.4676220463563°, -121.181371613342°	UPL
148	No	No	No	38.4671105398136°, -121.180112232038°	UPL
149	No	No	No	38.4673061233908°, -121.179722950071°	UPL
150	No	No	No	38.4675218284219°, -121.179691557342°	UPL
153	No	No	No	38.4710738315656°, -121.18778792531°	UPL
157	No	No	Yes	38.4694444449781°, -121.184175155954°	UPL
158	Yes	No	Yes	38.4697707214354°, -121.188502035091°	UPL
159	Yes	Yes	Yes	38.4669962842438°, -121.191331496242°	FEW-01
162	Yes	Yes	Yes	38.467938859189°, -121.179399213175°	SW-41
163	No	No	No	38.4673127158382°, -121.180791247825°	UPL
164	Yes	Yes	Yes	38.4665150337717°, -121.180142042307°	VP-07
165	No	No	No	38.4653026030878°, -121.180981170762°	UPL
167	Yes	No	No	38.4818147385911°, -121.185608531213°	UPL
169	Yes	Yes	Yes	38.4794241328718°, -121.184553153748°	SW-38
170	Yes	Yes	Yes	38.4765900880856°, -121.18976822515°	SW-39
171	No	Yes	No	38.4764920389335°, -121.189907263852°	UPL
173	Yes	Yes	Yes	38.4805809381802°, -121.18934132707°	SW-40
174	No	No	No	38.4805877615914°, -121.189272699549°	UPL
178	No	No	No	38.467934669069°, -121.179433993263°	UPL
179	No	No	Yes	38.4667457331482°, -121.180119575357°	UPL
180	No	No	No	38.4664791963311°, -121.180176241714°	UPL
181	Yes	Yes	Yes	38.4656538063714°, -121.180738078509°	P-02
182	No	No	No	38.4657416646798°, -121.18078444232°	UPL
183	Yes	Yes	Yes	38.4653113299874°, -121.180883995783°	VP-08
184	No	No	No	38.4660261678264°, -121.188860063156°	UPL
185	No	No	No	38.4688182280994°, -121.189891482911°	UPL
186	No	No	No	38.4695545339622°, -121.189352483936°	UPL
187	No	No	No	38.4672129134211°, -121.186959540503°	UPL
188	No	No	No	38.4655454606685°, -121.181473681963°	UPL
189	No	No	No	38.4655373059945°, -121.181828513225°	UPL
191	No	No	No	38.4652011479536°, -121.182415726891°	UPL
192	Yes	Yes	Yes	38.4650224179196°, -121.182527261114°	SW-43
193	No	No	No	38.4649072192596°, -121.18241428563°	UPL



**Table 4. Wetland Data Point Summary** 

Data	Wetland Determination Field Indicators		ו	Location	
Point	Vegetation	Soils	Hydrology	(Decimal Degrees- Latitude, Longitude)	Determination
194	No	No	No	38.4648962756889°, -121.182855457738°	UPL
195	Yes	Yes	Yes	38.4649903978914°, -121.183504175067°	VP-09
196	No	No	No	38.464934260962°, -121.183626012917°	UPL
197	Yes	Yes	Yes	38.4654947910337°, -121.184509305362°	VP-12
198	Yes	Yes	Yes	38.4654697875945°, -121.18487302544°	VP-13
199	Yes	Yes	Yes	38.4657079981602°, -121.185252854859°	SW-45
200	No	No	No	38.4657036366469°, -121.185205542564°	UPL
201	No	No	No	38.4644624842111°, -121.186408276864°	UPL
203	Yes	Yes	Yes	38.4639771231389°, -121.18577776046°	SW-46
204	Yes	Yes	Yes	38.4629713877053°, -121.184229430207°	SW-47
205	Yes	Yes	Yes	38.4628324638786°, -121.182959273176°	VP-14
206	No	No	No	38.4628562771348°, -121.182876078204°	UPL
207	Yes	Yes	Yes	38.462607315835°, -121.182299575585°	VP-15
208	No	No	No	38.4626160636474°, -121.182396474551°	UPL
210	No	No	No	38.4629248607282°, -121.182201625595°	UPL
215	No	No	No	38.4649974381241°, -121.182579233051°	UPL
216	Yes	Yes	Yes	38.4648828006594°, -121.182885152626°	SW-44
217	No	No	No	38.4649416265469°, -121.183508879354°	UPL
219	No	No	No	38.4655741598836°, -121.184498282397°	UPL
221	No	No	No	38.4654380481585°, -121.185485940467°	UPL
222	No	No	No	38.4640078021666°, -121.185727251742°	UPL
223	No	No	No	38.4630234148572°, -121.184209261648°	UPL
224	Yes	Yes	Yes	38.4629158605681°, -121.184076282211°	SW-48
225	No	No	No	38.4629534506059°, -121.184085613293°	UPL
226	Yes	Yes	Yes	38.463057702934°, -121.183791722231°	SW-49
227	No	No	No	38.4630775073222°, -121.183779019976°	UPL
228	No	No	No	38.462796218187°, -121.183506470533°	UPL
229	Yes	Yes	Yes	38.4627559701428°, -121.183588421845°	SW-50
232	Yes	Yes	Yes	38.4623042126993°, -121.18255497066°	VP-16
233	No	No	No	38.4623174211855°, -121.182703911475°	UPL
234	No	No	No	38.4669541246933°, -121.185454455427°	UPL
235	Yes	Yes	Yes	38.4628868135543°, -121.182034775321°	SW-51
238	No	No	No	38.4655222807824°, -121.184859264874°	UPL
239	No	No	No	38.482131740835°, -121.190591459094°	UPL
242	No	Yes	Yes	38.467164000000°, -121.175458000000°	UPL

**Notes**: FEW = Freshwater Emergent Wetland; P = Pond; SW = Seasonal Wetland; SWS = Seasonal Wetland Swale; VP = Vernal Pool; UPL = Upland.



**Table 5. Ordinary High-Water Mark Transect Data Summary** 

Transect	Ordinary High Water Mark Field Indicators	Location (Decimal Degrees- Latitude, Longitude)	Determination
62	Break in slope, sediment sorting, change in vegetation type and cover	38.4711222996087°, -121.180712350823°	ED-01
63	Break in slope	38.4717468817076°, -121.183269808023°	US-08
64	Break in slope, bed and bank, vegetation absent, change in vegetation type and cover	38.4726116441812°, -121.183036505017°	ED-02
65	Break in slope, shelving, vegetation absent, sediment sorting, bed and bank, change in vegetation type and cover	38.472548011011°, -121.18341795307°	ED-02
71	Break in slope, sediment sorting, bed and bank, change in vegetation type and cover	38.4788915743784°, -121.179367515066°	ID-01
75	Break in slope, changes in the character of soil, change in vegetation type and cover	38.4718766602892°, -121.182416604915°	ED-01
76	Break in slope	38.4718907955284°, -121.183440964625°	US-08
82	Break in slope, vegetation absent, change in vegetation type and cover	38.4787854393673°, -121.179638345901°	ID-01
83	Break in slope, change in vegetation type and cover	38.4774629145397°, -121.184317565129°	ID-01
87	Break in slope, vegetation absent, change in vegetation type and cover	38.4786470749703°, -121.183430586943°	ID-01
90	Break in slope, vegetation absent, change in vegetation type and cover	38.4729126999338°, -121.186432057383°	SWS-10
96	Break in slope, change in vegetation type and cover	38.4786607448627°, -121.1817576165°	SWS-09
101	Vegetation absent, change in vegetation type and cover	38.4736007563825°, -121.187663243601°	SWS-12
102	Break in slope, shelving, vegetation absent, bed and bank, change in vegetation type and cover	38.4736365324559°, -121.187853349931°	ED-05
103	Break in slope, deposition, bed and bank, change in vegetation type and cover	38.4824421265404°, -121.190335730554°	D-02

**Table 5. Ordinary High-Water Mark Transect Data Summary** 

	Ordinary High Water	Location	
Transect	Ordinary High Water Mark Field Indicators	(Decimal Degrees- Latitude, Longitude)	Determination
106	Break in slope, presence of litter or debris, vegetation matted down, bent, or absent, change in vegetation type and cover	38.4853197417076°, -121.192847063307°	US-01
118	Break in slope, change in vegetation type and cover	38.4801394168521°, -121.189132045761°	ED-03
131	Vegetation absent, change in vegetation type and cover	38.4735860359244°, -121.187675629837°	SWS-12
137	Break in slope, destruction of terrestrial vegetation, bed and bank	38.4820478383632°, -121.185789855537°	ED-04
138	Break in slope, change in vegetation type and cover	38.4792123985238°, -121.1812501623°	SWS-13
139	Break in slope, change in vegetation type and cover	38.4796271992612°, -121.183160998035°	SWS-14
143	Break in slope, destruction of terrestrial vegetation, sediment sorting, change in vegetation type and cover	38.4691117652754°, -121.186198580221°	SWS-04
151	Break in slope, vegetation matted down, bent, or absent, change in vegetation type and cover	38.4716860671304°, -121.188364503228°	SWS-04
152	Break in slope, vegetation matted down, bent, or absent, change in vegetation type and cover	38.4708848369787°, -121.18809598174°	SWS-04
154	Break in slope, change in vegetation type and cover	38.4702770207622°, -121.187556822786°	SWS-04
155	None	38.4695022994675°, -121.186631657878°	n/a
156	Break in slope, change in vegetation type and cover	38.4683080015377°, -121.183628614313°	US-02
160	Break in slope, changes in character of soil, vegetation matted down, bent, or absent, change in vegetation type and cover	38.46772422015°, -121.191773620143°	SWS-05
161	Break in slope, shelving, change in vegetation type and cover	38.4689715846277°, -121.192363192582°	SWS-05
166	Break in slope, change in vegetation type and cover	38.46783979°, -121.1851799°	SWS-04
168	Break in slope	38.4820908415816°, -121.185785329753°	US-06

**Table 5. Ordinary High-Water Mark Transect Data Summary** 

Transect	Ordinary High Water Mark Field Indicators	Location (Decimal Degrees- Latitude, Longitude)	Determination SWS-03	
172	Break in slope, change in vegetation type and cover	38.4815308714105°, -121.189240634886°		
176	Vegetation absent, change in vegetation type and cover	38.4730517025577°, -121.186570174213°	SWS-12	
177	Break in slope, change in vegetation type and cover	38.4787636707561°, -121.184587604714°	SWS-15	
190	Break in slope, change in vegetation type and cover	38.4653899234487°, -121.181735945931°	US-03	
209	Break in slope, vegetation absent, change in vegetation type and cover	38.4625957787614°, -121.182958095258°	SWS-07	
211	Break in slope, change in vegetation type and cover	38.46335011°, -121.1826699°	US-05	
212	Break in slope, bed and bank, change in vegetation type and cover	38.4605962573021°, -121.179636592087°	D-01	
213	Break in slope, bed and bank, change in vegetation type and cover	38.4606011739734°, -121.180035036217°	D-01	
214	Break in slope, shelving, destruction of terrestrial vegetation, presence of litter and debris, vegetation matted down, bent, or absent, bed and bank, water staining	PD-01		
218	Break in slope, change in vegetation type and cover	38.465174871748°, -121.184152177485°	SWS-06	
220		38.4643705498358°, -121.186308814787°	SWS-06	
231	Break in slope, change in vegetation type and cover	Break in slope, change in 38.4629695376119°, -121.18249916561;		
230	Break in slope, change in vegetation type and cover	k in slope, change in 38.46302344°, -121.1832133°		
236	Break in slope, change in vegetation type and cover	ope, change in 38.467846623°, -121.186125648°		
237	Break in slope, vegetation absent, change in vegetation type and cover	, vegetation 38.473173376°, -121.18725627° e in		
240	Break in slope, bed and bank, change in vegetation type and cover, drainage depressions	38.466856°, -121.175812°	D-03	
241	Break in slope, bed and bank, change in vegetation	38.466998°, -121.175552°	D-04	

### **Table 5. Ordinary High-Water Mark Transect Data Summary**

Т	Ordinary High Water Mark Field Indicators	Location (Decimal Degrees- Latitude, Longitude)	Determination	
	type and cover, drainage depressions			

Notes: D = Ditch; ED = Ephemeral Drainage; ID = Intermittent Drainage; PD = Perennial Drainage; SWS = Seasonal Wetland Swale; US = Upland Swale.



# 6 Conclusion

# 6.1 Summary of Delineation Results

Based on all the data collected during the field delineation, Dudek determined that approximately 69.77 acres of combined wetlands and NWW aquatic resources occur on the PSA (Table 6). This includes the following wetland features: freshwater emergent wetland (0.02 acre), pond (17.01 acres), seasonal wetland (14.16 acres), and vernal pool (6.30 acres); and the following NWWs: ditch 1.93 acres (5,105.55 linear feet), ephemeral drainage 1.11 acres (3,431.84 linear feet), intermittent drainage 2.36 acres (4,462.81 linear feet), perennial drainage (i.e., the Cosumnes River) 24.10 acres (4,506.29 linear feet), seasonal wetland swale 2.15 acres (8,807.17 linear feet), and upland swale 0.62 acres (1,735.02 linear feet) (See Table 1, Summary of Aquatic Resources within the Project Study Area, and Table 6, Summary of Individual Aquatic Resources within the Project Study Area.). In accordance with the USACE Sacramento District Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (USACE 2016), the completed Aquatic Resources Excel Spreadsheet is provided in Appendix E, Aquatic Resources Spreadsheet, and a compilation of shapefiles are provided as electronic files. Below see Section 7 Discussion for an complete overview of individual aquatic resources by feature type and preliminary jurisdictional assessment (i.e., federal and/or state waters).

Table 6. Summary of Individual Aquatic Resource Features in the Project Study Area

	Location		PSA - Adjacent Other Lands		PSA – Solar Development Area		PSA	
Feature ID <sup>1</sup>	Cowardin Code <sup>2</sup>	(Decimal Degrees- Latitude, Longitude)	Acres	Linear Feet	Acres	Linear Feet	Acres	Linear Feet
Wetlands								
FEW-01	PEM1	38.4670895771522°, -121.191322717007°	0.02	_	0	_	0.02	_
P-01	PEM1	38.4819253549467°, -121.185400806494°	0.28	_	0	_	0.28	_
P-02	PEM1	38.465587427291°, -121.180734538119°	0.37	_	0	_	0.37	_
P-03	PEM1	38.4717967409132°, -121.190191234004°	16.36	_	0	_	16.36	_
SW-01	PEM2	38.4754332551199°, -121.174595377416°	0.01	_	0	_	0.01	_
SW-02	PEM2	38.4755371804127°, -121.174338882215°	0.01	_	0	_	0.01	_
SW-03	PEM2	38.4751670534498°, -121.174855539646°	0.12	_	0	_	0.12	_
SW-04	PEM2	38.4747490059207°, -121.174960491977°	0.04	_	0	_	0.04	_
SW-05	PEM2	38.4750382543669°, -121.174578067547°	0.06	_	0	_	0.06	

**Table 6. Summary of Individual Aquatic Resource Features in the Project Study Area** 

					PSA - Solar		-	
		Location	PSA - A Other La	djacent ands	Development Area		PSA	
Feature ID <sup>1</sup>	Cowardin Code <sup>2</sup>	(Decimal Degrees- Latitude, Longitude)	Acres	Linear Feet	Acres	Linear Feet	Acres	Linear Feet
SW-06	PEM2	38.4745132464897°, -121.174477680754°	0.06	_	0	_	0.06	_
SW-07	PEM2	38.4744595283901°, -121.17535896531°	0	_	0.03	_	0.03	_
SW-08	PEM2	38.4742335114253°, -121.174724630517°	0.01	_	0	_	0.01	_
SW-09	PEM2	38.4745342914795°, -121.174799821139°	0.02	_	0	_	0.02	_
SW-10	PEM2	38.4743597739247°, -121.174854660311°	0.01	_	0	_	0.01	_
SW-11	PEM2	38.474075707997°, -121.174538269156°	0.01	_	0	_	0.01	_
SW-12	PEM2	38.4738556803195°, -121.173923908338°	0.02	_	0	_	0.02	_
SW-13	PEM2	38.4738136944208°, -121.174005211443°	0.01	_	0	_	0.01	_
SW-14	PEM2	38.4732576087339°, -121.172725210249°	0.03	_	0	_	0.03	_
SW-15	PEM2	38.4726572480915°, -121.173468450191°	0.29	_	0	_	0.29	_
SW-16	PEM2	38.4730125122684°, -121.174144971426°	0.09	_	0	_	0.09	_
SW-17	PEM2	38.4735351020194°, -121.173918560472°	0.12	_	0	_	0.12	_
SW-18	PEM2	38.4720304127386°, -121.173128032855°	0.13	_	0	_	0.13	_
SW-19	PEM2	38.4715168278859°, -121.174216073448°	6.78	_	0	_	6.79	_
SW-20	PEM2	38.4751976832986°, -121.173045040118°	0.03	_	0	_	0.03	_
SW-21	PEM2	38.4685359739627°, -121.175028244135	0.01	_	0	_	0.01	_
SW-22	PEM2	38.4678055506133°, -121.175682993117°	0.02	_	0.07	_	0.09	_
SW-23	PEM2	38.4675938051611°, -121.176337675668°	0.03	_	0	_	0.03	_
SW-24	PEM2	38.4724658319146°, -121.178385239361°	2.50	_	0	_	2.50	_
SW-25	PEM2	38.4734445202875°, -121.176154008011°	0.02	_	0	_	0.02	_

**Table 6. Summary of Individual Aquatic Resource Features in the Project Study Area** 

		PSA – Adjacent Other Lands			PSA – Solar Development Area		PSA	
Feature ID <sup>1</sup>	Cowardin Code <sup>2</sup>	(Decimal Degrees- Latitude, Longitude)	Acres	Linear Feet	Acres	Linear Feet	Acres	Linear Feet
SW-26	PEM2	38.4732742657097°, -121.175969523099°	0.01	_	0	_	0.01	_
SW-27	PEM2	38.4728075817419°, -121.175777033508°	0.04	_	0	_	0.04	_
SW-28	PEM2	38.4772002685563°, -121.176424362259°	0.04	_	0	_	0.04	_
SW-29	PEM2	38.4788902911226°, -121.180856275605°	0.02	_	0	_	0.02	_
SW-30	PEM2	38.4787686648156°, -121.183277423274°	0.09	_	0	_	0.09	_
SW-31	PEM2	38.4744226321466°, -121.187403404311°	1.69	_	0	_	1.69	_
SW-32	PEM2	38.4755445153218°, -121.182605063977°	0.07	_	0	_	0.07	_
SW-33	PEM2	38.4729489980154°, -121.185982177625°	0.03	_	0	_	0.03	_
SW-34	PEM2	38.4728518188422°, -121.186532152281°	0	_	0	_	0	_
SW-35	PEM2	38.4732144318882°, -121.186854350275°	0.01	_	0	_	0.01	_
SW-36	PEM2	38.4717030039265°, -121.186237839194°	0	_	0.03	_	0.03	_
SW-37	PEM2	38.4720548263364°, -121.189012976036°	0	_	1.00	_	1.00	_
SW-38	PEM2	38.4794263111125°, -121.184561744576°	0	_	0.03	_	0.03	_
SW-39	PEM2	38.4766232356846°, -121.189746927721°	0.12	_	0	_	0.12	_
SW-40	PEM2	38.4805795868672°, -121.189388474223°	0.05	_	0	_	0.05	_
SW-41	PEM2	38.4679501741174°, -121.179411996677°	0	_	0.02	_	0.02	_
SW-42	PEM2	38.4828099364111°, -121.186503598419°	0.23	_	0	_	0.23	_
SW-43	PEM2	38.4650008867282°, -121.182539937882°	0	_	0.01	_	0.01	_
SW-44	PEM2	38.4648829082205°, -121.182900655394°	0	_	0.00	_	0.00	_
SW-45	PEM2	38.4657393663553°, -121.185281138674°	0	_	0.04	_	0.04	_

**Table 6. Summary of Individual Aquatic Resource Features in the Project Study Area** 

	Location		PSA – A Other L	djacent ands	PSA - Solar Development Area		PSA	
Feature ID <sup>1</sup>	Cowardin Code <sup>2</sup>	(Decimal Degrees- Latitude, Longitude)	Acres	Linear Feet	Acres	Linear Feet	Acres	Linear Feet
SW-46	PEM2	38.4639874922506°, -121.18578345145°	0	_	0.01	_	0.01	_
SW-47	PEM2	38.4629885200443°, -121.184226733982°	0	_	0	_	0.00	_
SW-48	PEM2	38.4629120242012°, -121.184057048343°	0.01	_	0	_	0.01	_
SW-49	PEM2	38.4630567639944°, -121.183811326599°	0.01	_	0	_	0.01	_
SW-50	PEM2	38.4627335626166°, -121.183628558106°	0.04	_	0	_	0.04	_
SW-51	PEM2	38.4629074890143°, -121.182112769696°	0.04	_	0	_	0.04	_
VP-01	PEM2	38.4741820925553°, -121.172618725664°	4.49	_	0	_	4.49	_
VP-02	PEM2	38.4733227154834°, -121.172479277734°	0.04	_	0	_	0.04	_
VP-03	PEM2	38.4730022331018°, -121.172734627849°	0.08	_	0	_	0.08	_
VP-04	PEM2	38.4730297157974°, -121.173041681005°	0.01	_	0	_	0.01	_
VP-05	PEM2	38.479348511788°, -121.189471154155°	1.06	_	0	_	1.06	_
VP-06	PEM2	38.4715732502321°, -121.183970307729°	0	_	0.01	_	0.01	_
VP-07	PEM2	38.466566835075°, -121.18001165509°	0	_	0.06	_	0.06	_
VP-08	PEM2	38.465379922014°, -121.180894303284°	0	_	0.06	_	0.06	_
VP-09	PEM2	38.4649876429087°, -121.183526220167°	0	_	0.01	_	0.01	_
VP-10	PEM2	38.4740167844846°, -121.174304170043°	0.03	_	0	_	0.03	_
VP-11	PEM2	38.4679555676043°, -121.176193454947°	0	_	0.04	_	0.04	_
VP-12	PEM2	38.4655118488297°, -121.184548255068°	0	_	0.02	_	0.02	_
VP-13	PEM2	38.4654467334146°, -121.184949429614°	0	_	0.05	_	0.05	_
VP-14	PEM2	38.4628313474258°, -121.183092119668°	0.06	_	0	_	0.06	_

**Table 6. Summary of Individual Aquatic Resource Features in the Project Study Area** 

		Location	PSA – Adjacent Other Lands		PSA – Solar Development Area		PSA	
Feature ID <sup>1</sup>	Cowardin Code <sup>2</sup>	(Decimal Degrees- Latitude, Longitude)	Acres	Linear Feet	Acres	Linear Feet	Acres	Linear Feet
VP-15	PEM2	38.4626377095329°, -121.182280042327°	0.11	_	0	_	0.11	_
VP-16	PEM2	38.4622337009951°, -121.182596569915°	0.11	_	0	_	0.11	_
VP-17	PEM2	38.4739120138372°, -121.187629207621°	0	_	0.05	_	0.05	
Total Wetla	nds		33.90	_	3.59	_	37.49	_
Non-Wetla	nd Waters (	NWWs)						
D-01	R5	38.4611358753613°, -121.180893009468°	0.24	1,043	0	0	0.24	1,043
D-02	R5	38.4798891304807°, -121.190599929993°	1.54	3,342	0	0	1.54	3,342
D-03	R5	38.466856000000°, - 121.175812000000°	0	0	0.06	210	0.06	210
D-04	R5	38.466998000000°, - 121.175552000000°	0	0	0.09	510	0.09	510
ED-01	R6	38.471714131699°, -121.182023058642°	0	0	0.07	860	0.07	860
ED-02	R6	38.4726951803214°, -121.183009591617°	0.19	435	0.64	1,417	0.83	1,853
ED-03	R6	38.4802253452188°, -121.189006104724°	0.18	454	0.02	116	0.19	570
ED-04	R6	38.4821063182203°, -121.185906231586°	0.01	107	0	0	0.01	107
ED-05	R6	38.4736229430754°, -121.187846376729°	0	42	0	0	0	42
ID-01	R4	38.4773863055538°, -121.184528143312°	1.91	3,163	0.45	1,300	2.36	4,463
Perennial Drainage	R3	38.4833683471877°, -121.194087666619°	24.10	4,506	0	0	24.10	4,506
SWS-01	R6	38.4748967589724°, -121.174919727077°	0	16	0	0	0	16
SWS-02	R6	38.4794628004048°, -121.190338246248°	0.19	309	0	0	0.19	309
SWS-03	R6	38.4815388349953°, -121.189265624331°	0.01	61	0	0	0.01	61
SWS-04	R6	38.4699179605609°, -121.187036532012°	0.78	1,907	0.34	1,612	1.12	3,519
SWS-05	R6	38.4681389453308°, -121.191889550683°	0.27	935	0	0	0.27	935

**Table 6. Summary of Individual Aquatic Resource Features in the Project Study Area** 

		Location	PSA – Solar PSA – Adjacent Other Lands PSA – Solar Development Area			PSA		
Feature ID <sup>1</sup>	Cowardin Code <sup>2</sup>	(Decimal Degrees- Latitude, Longitude)	Acres	Linear Feet	Acres	Linear Feet	Acres	Linear Feet
SWS-06	R6	38.4650356573229°, -121.184843327002°	0	0	0.03	1,046	0.03	1,046
SWS-07	R6	38.4624455185252°, -121.182890840053°	0.09	222	0	0	0.09	222
SWS-08	R6	38.4629556255681°, -121.18245969379°	0	0	0.03	115	0.03	115
SWS-09	R6	38.4786769993662°, -121.181815725396°	0	0	0.05	143	0.05	143
SWS-10	R6	38.4729401191742°, -121.186265677789°	0.01	114	0	0	0.01	114
SWS-11	R6	38.473178629851°, -121.187280182461°	0.02	489	0	0	0.02	489
SWS-12	R6	38.4734023239871°, -121.187197211204°	0.02	535	0	0	0.02	535
SWS-13	R6	38.4795985121156°, -121.18126641563°	0	0	0.12	351	0.12	351
SWS-14	R6	38.4799218644275°, -121.183258695467°	0	0	0.15	679	0.15	679
SWS-15	R6	38.4786642055228°, -121.184582473217°	0.04	228	0.01	45	0.05	273
US-01	U	38.4851464439103°, -121.193148747066°	0.49	468	0	0	0.49	468
US-02	U	38.4680973758159°, -121.183299209185°	0	4	0.02	240	0.02	244
US-03	U	38.4654090767667°, -121.181548206226°	0	0	0.01	240	0.01	240
US-04	U	38.4631713998385°, -121.183223315917°	0.02	148	0	0	0.02	148
US-05	U	38.4632462871422°, -121.182641494919°	0.02	139	0	0	0.02	139
US-06	U	38.4821152436334°, -121.185810085499°	0.01	56	0	0	0.01	56
US-07	U	38.467784342647°, -121.186163835286°	0	0	0.04	473	0.04	473
US-08	U	38.4718427908926°, -121.18333986713°	0	0	0.02	70	0.02	70
Total NWW	S		30.15	18,786	2.13	9,262	32.27	28,048
Total			64.05	18,786	5.72	9,262	69.76	28,048





# 7 Discussion

This report identifies the potentially jurisdictional aquatic resources within the PSA (732.26 acres) that may be subject to agency jurisdiction pursuant to regulations in Section 404 of the CWA. This specifically includes a total of 53.91 acres (22,464.18 linear feet) of wetlands and NWWs. Furthermore, the delineation conducted within the PSA delineated all observable resource present, including potential areas under the jurisdiction of CDFW, pursuant to Sections 1600 through 1603 of the California FGC, and the RWQCB, pursuant to CWA Section 401 and the Porter–Cologne Water Quality Control Act have also been preliminary identified. As outlined in Section 3, Regulatory Setting above, aquatic resources within this section were identified as Waters of the United States based on the current USACE definition, and that meet the relatively permanent standard and/or may have a significant nexus. A complete outline of all aquatic resources within the PSA by feature type, as well as by preliminary federal and/or state waters type, has been summarized below in Table 7, Preliminary Jurisdictional Assessment of Water of the United States and Waters of the State within the PSA. The jurisdictional determinations for aquatic resources delineated in the PSA are preliminary until verified by the USACE Sacramento District.

## 7.2 Waters of the United States

Jurisdictional Authority: USACE - Sacramento District

Approximately 53.91 acres (22,464.18 linear feet) of aquatic resources occur within the PSA and are anticipated to meet the criteria for jurisdictional waters of the United States. Specifically, within the solar development area, there are 4.42 acres (6,282.11 linear feet) of aquatic resources that meet regulatory criteria. Wetlands and NWWs that have direct and indirect connectivity to the Cosumnes River, a traditional navigable water of the United States, as well as aquatic resource features that meet the significant nexus and relatively permanent standards were considered to fall under the jurisdictional authority of the USACE, Sacramento District.

# 7.2 Waters of the State

Jurisdictional Authority: Central Valley RWQCB, and CDFW - North Central Region

Approximately 69.77 acres (28,152.0 linear feet) of aquatic resources within the PSA are anticipated to meet the criteria for jurisdiction waters of the state pursuant to Section 401 of the CWA, and approximately 69.36 acres (26,285.38 linear feet) are anticipated to meet the criteria of juridical waters of the state pursuant California FGC Sections 1601 through 1603. Specifically, a maximum of approximately 4.42 acres (9,262.26 linear feet) within the solar development area are anticipated to meet criteria under the jurisdictional authority of the RWQCB and/or CDFW. In contrast to the USACE, the RWQCB asserts jurisdiction over ephemeral drainages and isolated wetlands, and CDFW jurisdiction extends to the TOB or edge of wetland or riparian vegetation (if present) rather than the OHWM of applicable aquatic resources. The freshwater emergent wetland, ponds, seasonal wetlands, vernal pools, ditches, ephemeral drainages, intermittent drainage, perennial drainage, seasonal wetland swales, and upland swales are all considered waters of the state subject to RWQCB and/or CDFW jurisdiction.

Table 7. Preliminary Jurisdictional Assessment of Aquatic Resources within the Project Study Area<sup>1</sup>

Feature Type <sup>2</sup>	Feature Classification	PSA-Total Acreage	PSA-Total Linear Feet
U.S. Army Corps of Engineers	(USACE) <sup>1</sup>		
Freshwater emergent wetland	Wetlands	0.02	_
Pond	Wetlands	16.36	_
Seasonal wetland	Wetlands	5.42	_
Vernal pool	Wetlands	1.11	_
Ditch	Non-Wetland Water (NWW)	1.54	3,342.25
Ephemeral drainage	NWW	1.06	2,464.44
Intermittent drainage	NWW	2.36	4,462.81
Perennial drainage	NWW	24.10	4,506.29
Seasonal wetland swale	NWW	1.94	7,073.94
Upland swale	NWW	0.05	914.45
-	USACE Total	53.91	22,464.18
California Department of Fisl	n and Wildlife (CDFW)1		
Freshwater emergent wetland	Wetlands	0.02	_
Pond	Wetlands	17.01	_
Seasonal wetland	Wetlands	14.16	_
Vernal pool	Wetlands	6.30	_
Ditch	NWW	1.54	3,342.25
Ephemeral drainage	NWW	1.11	3,431.84
Intermittent drainage	NWW	2.36	4,462.81
Perennial drainage	NWW	24.10	4,506.29
Seasonal wetland swale	NWW	2.15	8,807.17
Upland swale	NWW	0.62	1,735.02
·	CDFW Total	69.36	26,285.38
Regional Water Quality Contr	ol Board (RWQCB)1		
Freshwater emergent wetland	Wetlands	0.02	_
Pond	Wetlands	17.01	_
Seasonal wetland	Wetlands	14.16	_
Vernal pool	Wetlands	6.30	_
Ditch	NWW	1.93	5,106.0
Ephemeral drainage	NWW	1.11	3,432.0
Intermittent drainage	NWW	2.36	4,463.0
Perennial drainage	NWW	24.12	4,506.0
Seasonal wetland swale	NWW	2.15	8,807.0
Upland swale	NWW	0.62	1,838.0
•	RWQCB Total	69.77	28,152.0

Notes: PSA= Project Study Area



FEW = Freshwater Emergent Wetland; D = Ditch; ED = Ephemeral Drainage; ID = Intermittent Drainage; OHWM = Ordinary High Water Mark; PD = Perennial Drainage; P = Pond; SW = Seasonal Wetland; SWS = Seasonal Wetland Swale; TOB = top of bank; US = Upland Swale; VP = Vernal Pool.



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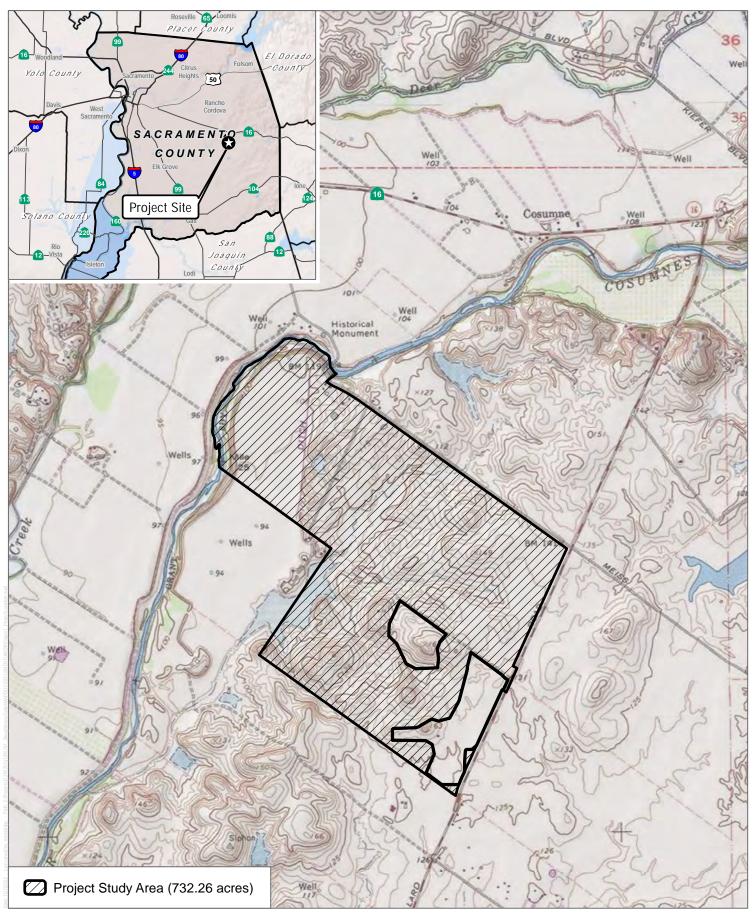
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Figure 1 Project Location

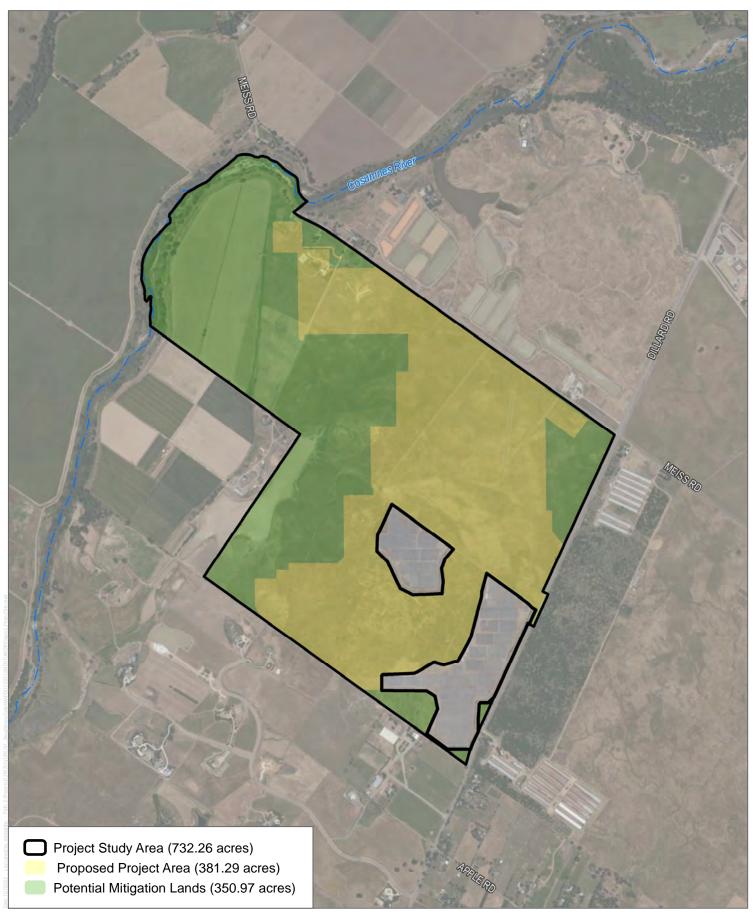




SOURCE: USGS 7.5-Minute Series Sloughhouse Quadrangle

FIGURE 1
Project Location



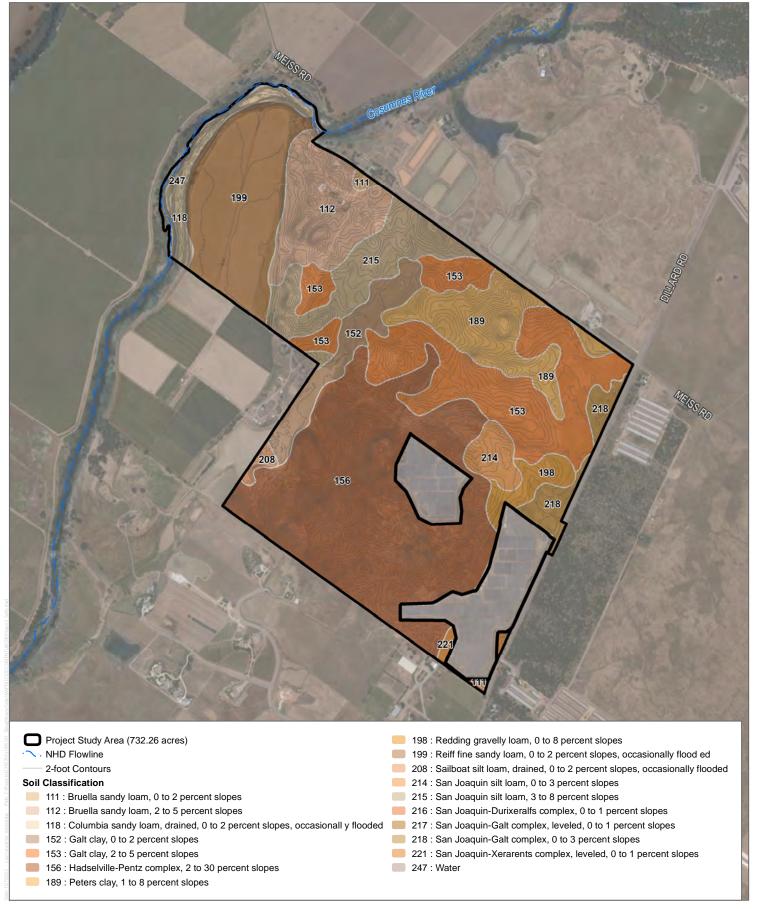


SOURCE: Bing Maps 2020, Sacramento County 2019

**DUDEK 6** 0 750 1,500 Feet

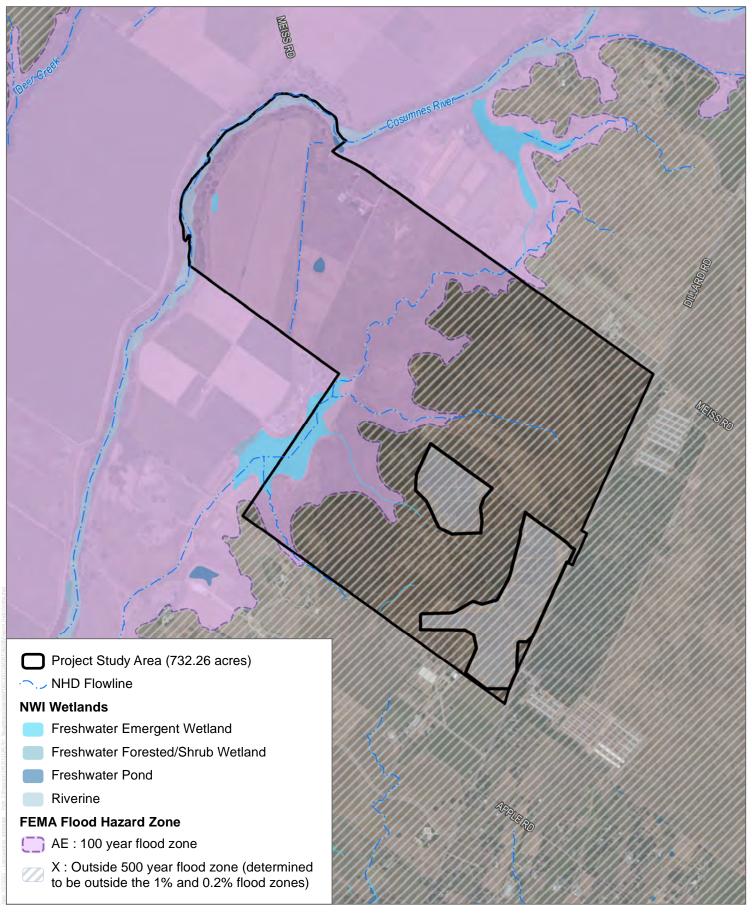
FIGURE 2 Project Setting





SOURCE: Bing Maps 2020, Sacramento County 2019, USDA 2019

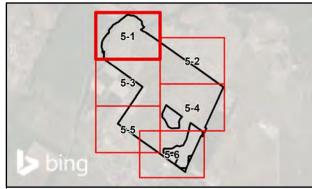




SOURCE: Bing Maps 2020, NHD 2019, Sacramento County 2019, USFWS 2020, FEMA 2019

**DUDEK &** 0 750 1,5





Project Study Area (732.26 acres)

Proposed Project Area (381.29 acres)

Potential Mitigation Lands (50.97 acres)

Below Top of Bank (TOB) / Edge of Riparian (24.10 acres) (4,506 linear feet)

Below Ordinary High Water Mark (OHWM) (13.14 acres) (4,503 linear feet)

2-foot Contours

## Feature Point

Cattle Trough

CulvertPipe

Sample Point / Transect Sample Location

Wetland Data Point

O Upland Data Point

Transect Point

## Aquatic Resources

Wetlands (37.49 acres)

Freshwater Emergent Wetland (0.02 acre)

Seasonal Wetland (14.16 acres)

Vernal Pool (6.30 acres)

Pond (17.01 acres)

## Waters (32.28 acres) (28,152 linear feet)

Ephemeral Drainage (1.11 acres) (3,432 linear feet)

Intermittent Drainage (2.36 acres) (4,463 linear feet)

Perennial Drainage (24.10 acres) (4,506 linear feet)

Seasonal Wetland Swale (2.15 acre) (8,807 linear feet)

Upland Swale (0.63 acre) (1,838 linear feet)

■ Roadside Ditch (0.15 acres) (720 linear feet)

Ditch (1.78 acres) (4,385 linear feet)



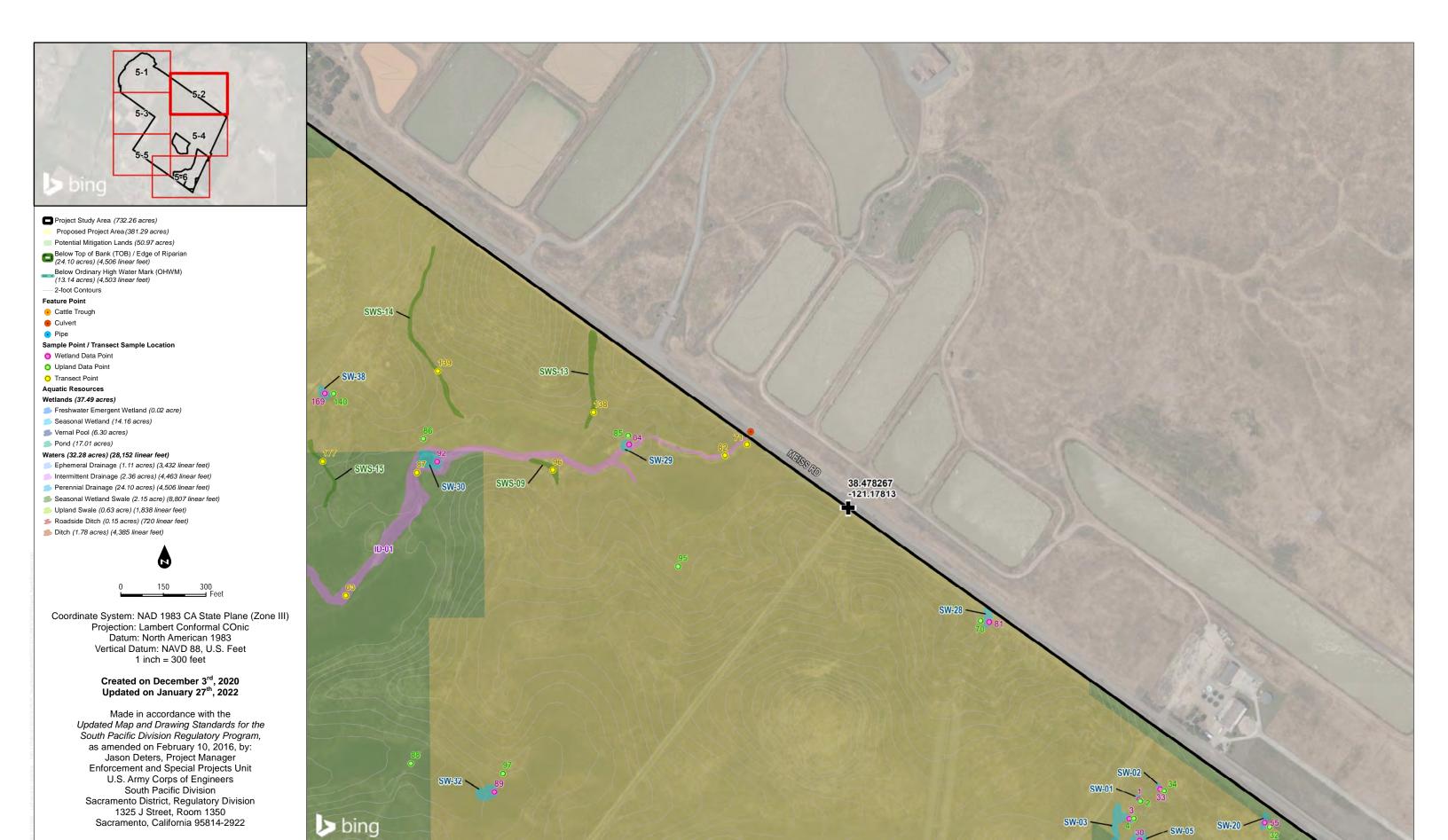


Coordinate System: NAD 1983 CA State Plane (Zone III)
Projection: Lambert Conformal COnic
Datum: North American 1983
Vertical Datum: NAVD 88, U.S. Feet
1 inch = 300 feet

Created on December 3<sup>rd</sup>, 2020 Updated on January 27<sup>th</sup>, 2022

Made in accordance with the
Updated Map and Drawing Standards for the
South Pacific Division Regulatory Program,
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Jason Deters, Project Manager
Enforcement and Special Projects Unit
U.S. Army Corps of Engineers
South Pacific Division
Sacramento District, Regulatory Division
1325 J Street, Room 1350
Sacramento, California 95814-2922

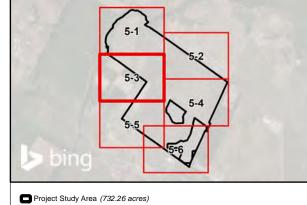








57



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- Culvert

Pipe

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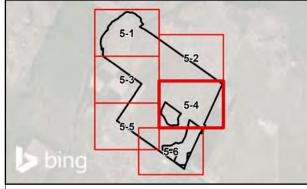


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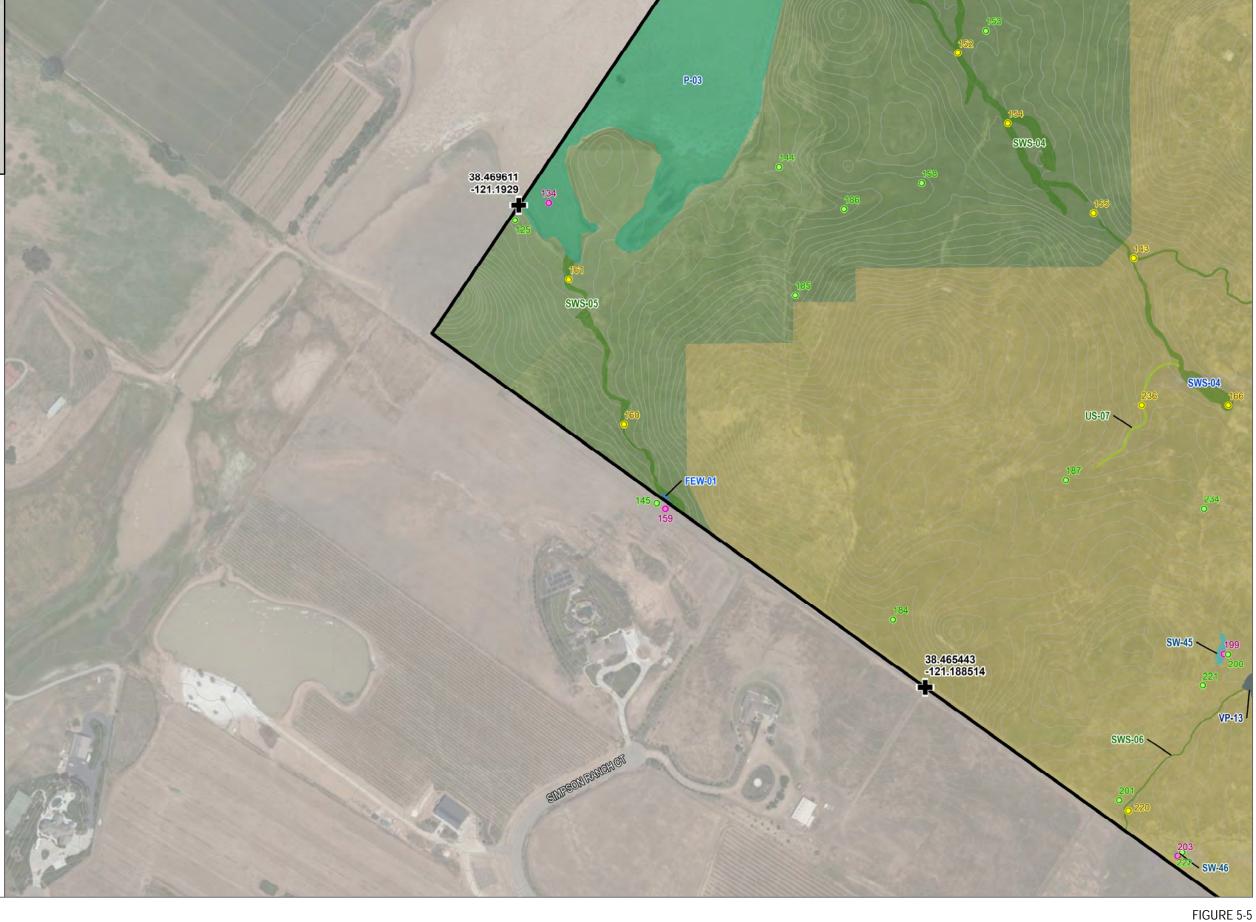
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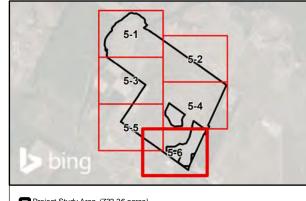
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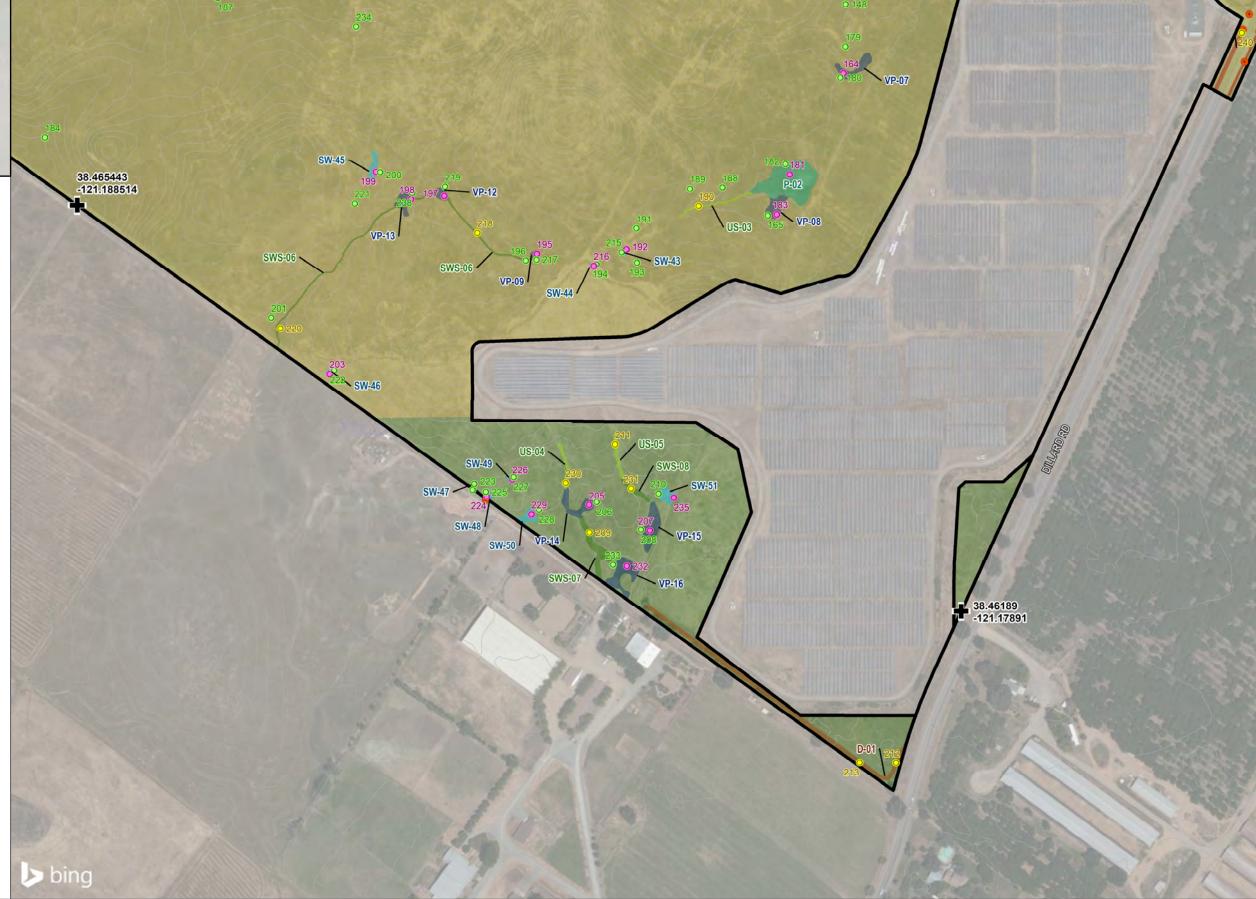




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# **Appendix A**Photo Record



**Photo 1:** Freshwater Emergent Wetland (FEW)-01.

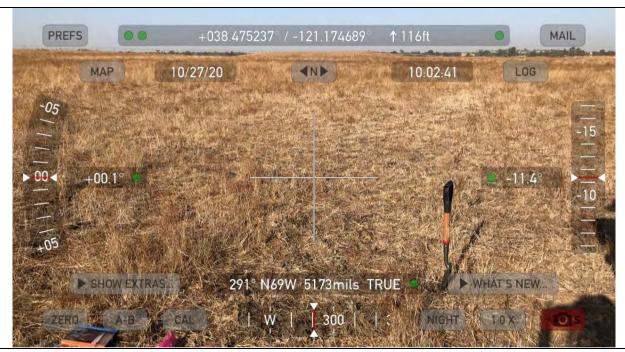


Photo 2: Representative photo of a seasonal wetland (SW-03) on site.



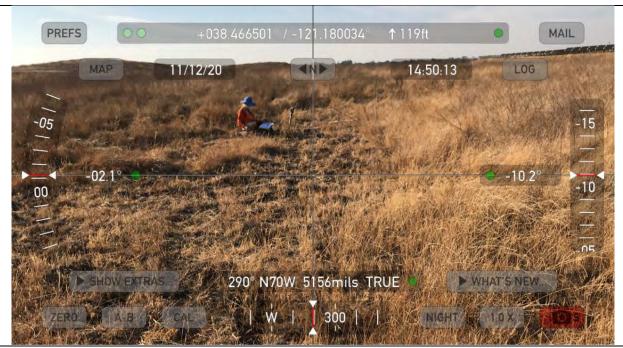
Photo 3: Another representative photo of a seasonal wetland (SW-33) on site.



Photo 4: Representative photo of a pond (Pond-01) on site.



Photo 5: Pond-03 (pictured) was actively being graded during the October/November field surveys.



**Photo 6:** Representative photo of a vernal pool (VP-07) on site showing the concentric rings of hydrophytic vegetation.



**Photo 7:** Representative photo of Ditch-02, which was inundated at the time of the October/November field survey and contained mostly upland vegetation.



**Photo 8:** Representative photo of an ephemeral drainage (ED-02) on site.



Photo 9: The intermittent drainage (ID-01) on site at its intersection with Meiss Road.



Photo 10: A portion of the Cosumnes River (Perennial Drainage-01) flows within the western boundary of the project site.



Photo 11: Representative photo of a seasonal wetland swale (SWS-06) on site.



Photo 12: Representative photo of an upland swale (US-04) on site.

Appendix B
Observed Plant Species Compendium

## **VASCULAR SPECIES**

## **EUDICOTS**

#### ADOXACEAE-MUSKROOT FAMILY

Sambucus nigra—blue elderberry

#### AMARANTHACEAE—AMARANTH FAMILY

\* Amaranthus albus—prostrate pigweed

#### APIACEAE—CARROT FAMILY

- \* Conium maculatum—poison hemlock
- \* Eryngium castrense—Great Valley eryngo
- \* Foeniculum vulgare—fennel
- \* Torilis arvensis—spreading hedgeparsley

#### ASTERACEAE—SUNFLOWER FAMILY

Baccharis pilularis—coyote brush

- \* Carduus pycnocephalus—Italian plumeless thistle
- \* Centaurea solstitialis—yellow star-thistle
- \* Dittrichia graveolens—stinkwort
- \* Erigeron canadensis—Canadian horseweed Holocarpha virgata—yellowflower tarweed
- \* Hypochaeris glabra—smooth cat's ear
- \* Hypochaeris radicata—hairy cat's ear
- \* Lactuca serriola—prickly lettuce
- \* Matricaria discoidea—disc mayweed
   Psilocarphus brevissimus—short woollyheads
- \* Sonchus arvensis—field sowthistle
- \* Xanthium strumarium—cocklebur

#### **BORAGINACEAE—BORAGE FAMILY**

Plagiobothrys bracteatus—bracted popcornflower

#### BRASSICACEAE—MUSTARD FAMILY

- Brassica nigra—black mustard
- Lepidium latifolium—perennial pepper weed

#### CARYOPHYLLACEAE—PINK FAMILY

\* Spergularia rubra—red sandspurry



#### CONVOLVULACEAE—MORNING-GLORY FAMILY

Convolvulus arvensis—field bindweed

#### CUCURBITACEAE—GOURD FAMILY

Cucurbita foetidissima-Missouri gourd

#### **EUPHORBIACEAE—SPURGE FAMILY**

Croton setiger-dove weed

#### FABACEAE—LEGUME FAMILY

Lupinus microcarpus—valley lupine

\* Trifolium hirtum—rose clover

#### FAGACEAE—OAK FAMILY

Quercus agrifolia—coast live oak Quercus lobata—valley oak

#### GERANIACEAE—GERANIUM FAMILY

- \* Erodium botrys—longbeak stork's bill
- \* Erodium cicutarium—redstem stork's bill

#### JUGLANDACEAE—WALNUT FAMILY

Juglans hindsii-Northern California black walnut

#### LAMIACEAE—MINT FAMILY

Trichostema lanceolatum—vinegarweed

### LYTHRACEAE—LOOSESTRIFE FAMILY

\* Lythrum hyssopifolia—hyssop loosestrife

#### MALVACEAE—MALLOW FAMILY

\* Malva parviflora—cheeseweed mallow

#### ONAGRACEAE—EVENING PRIMROSE FAMILY

Epilobium brachycarpum—tall annual willowherb Epilobium ciliatum—fringed willowherb

#### POLYGONACEAE—BUCKWHEAT FAMILY

- \* Polygonum aviculare—prostrate knotweed
- \* Rumex crispus—curly dock
- \* Rumex dentatus—toothed dock
- Rumex pulcher—fiddle dock



#### RANUNCULACEAE—BUTTERCUP FAMILY

Ranunculus aquatilis—white water crowfoot Ranunculus sceleratus—cursed buttercup

#### ROSACEAE—ROSE FAMILY

\* Rubus armeniacus—Himalayan blackberry

#### SALICACEAE—WILLOW FAMILY

Populus fremontii—Fremont cottonwood Salix gooddingii—Goodding's willow

#### SOLANACEAE—NIGHTSHADE FAMILY

\* Solanum elaeagnifolium—silverleaf nightshade

#### VERBENACEAE—VERVAIN FAMILY

Phyla nodiflora—turkey tangle fogfruit

#### VITACEAE—GRAPE FAMILY

Vitis californica—California wild grape

## **MONOCOTS**

#### CYPERACEAE—SEDGE FAMILY

Cyperus eragrostis—tall flatsedge Eleocharis macrostachya—pale spike rush

#### JUNCACEAE—RUSH FAMILY

Juncus balticus—no common name
Juncus effusus—soft rush

#### POACEAE—GRASS FAMILY

Alopecurus saccatus—Pacific foxtail

- \* Avena barbata—slender oat
- \* Avena fatua—wild oat
- \* Briza minor—little quakinggrass
- \* Bromus diandrus—ripgut brome
- \* Bromus hordeaceus—soft brome
- \* Crypsis schoenoides—swamp pricklegrass
- Cynodon dactylon—Bermudagrass
- \* Elymus caput-medusae—medusahead
- Festuca myuros—rat-tail fescue
- Festuca perennis—perennial rye grass



- Gastridium phleoides—nit grass
- \* Hordeum marinum—seaside barley
- \* Hordeum murinum—mouse barley
- Melica californica—California melicgrass
- Phalaris aquatica—Harding grass
- \* Poa secunda—onesided bluegrass
- \* Polypogon monspeliensis—annual rabbitsfoot grass

#### THEMIDACEAE—BRODIAEA FAMILY

Brodiaea elegans—harvest brodiaea
Triteleia laxa—Ithuriel's spear

#### TYPHACEAE—CATTAIL FAMILY

Typha latifolia-broadleaf cattail

\* signifies introduced (non-native) species



# **Appendix C**Datasheets

Project/Site: Sloughhouse Solar Energy Project	Project/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: 10/27/2020							
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:1			
Investigator(s): A, Sennett, A. Godinho	S	Section, Tov	wnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11			
Landform (hillslope, terrace, etc.): Flatlands	L	_ocal relief	(concave, c	convex, none): Concave	Slope (%):0			
Subregion (LRR):	Lat: <u>38.4</u>	7541863		Long: -121.1745827	Datum: WGS84			
					ation: n/a			
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, or Hydrologys	significantly d	listurbed?	Are "l	Normal Circumstances" p	oresent? Yes No _ ✓			
Are Vegetation, Soil, or Hydrology r	naturally prob	olematic?	(If ne	eded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site map			g point lo	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes ✓ N Wetland Hydrology Present? Yes ✓ N Remarks:	lo		e Sampled in a Wetlan		No			
Associated feature: SW-01. Grazed								
VEGETATION – Use scientific names of plan	ıts.							
Tree Stratum (Plot size:) 1	Absolute % Cover	Species?	Status	Dominance Test work  Number of Dominant Sp That Are OBL, FACW, or				
2				Total Number of Domini Species Across All Stra				
4	0 :			Percent of Dominant Sp That Are OBL, FACW, o				
1				Prevalence Index work	ksheet:			
2.				Total % Cover of:	Multiply by:			
3				OBL species	x 1 =			
4				FACW species	x 2 =			
5	,			FAC species	x 3 =			
44	0 :	= Total Cov	ver	FACU species	x 4 =			
Herb Stratum (Plot size: 1m x 1m )	25	V	FAC	UPL species	x 5 =			
Hordeum marinum     Polypogon monspeliensis		Y N	FAC FACW	Column Totals:	(A) (B)			
a Factoria managina	25	<u> </u>	FAC	Prevalence Index	= B/A =			
4 Domestidentstone		N N	FACW	Hydrophytic Vegetation				
Kumex dentatus     Holocarpha virgate		N	UPL	✓ Dominance Test is				
6				Prevalence Index is				
7					ptations <sup>1</sup> (Provide supporting			
8					s or on a separate sheet)			
		= Total Cov	ver	Problematic Hydror	phytic Vegetation <sup>1</sup> (Explain)			
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must urbed or problematic.			
2	0 :		····	Hydrophytic				
% Bare Ground in Herb Stratum	r of Biotic Cru			Vegetation	s✓ No			
Remarks:				<u> </u>				
Change in vegetation cover and sp. compo	sition. Lo	lium pe	renne in	dicator status usec	k			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			ox Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<u>Remarks</u>
0-3	7.5 YR 4/1	93	5 yr 4/6	_ 7	С	PL	Silty clay	_
					_			_
	-	_						_
	-	_				-		
	<u> </u>		<u> </u>					_
	- · ·		<u> </u>		_			
Type: C=C	Concentration, D=De	oletion, RN	M=Reduced Matrix, C	S=Covere	d or Coat	ed Sand G	rains. <sup>2</sup> L	ocation: PL=Pore Lining, M=Matrix.
			II LRRs, unless othe					rs for Problematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)		Sandy Red	dox (S5)			1 cm	Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					Muck (A10) (LRR B)
	listic (A3)		Loamy Mu					uced Vertic (F18)
	en Sulfide (A4)	۵)	Loamy Gle					Parent Material (TF2)
	ed Layers (A5) (LRR luck (A9) (LRR D)	<b>C</b> )	Depleted N Redox Dar				Otne	er (Explain in Remarks)
	ed Below Dark Surface	ce (A11)	Depleted D		. ,			
	Park Surface (A12)	)O (/(11)	Redox Dep				3Indicato	rs of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		` ,			d hydrology must be present,
Sandy (	Gleyed Matrix (S4)						unless	disturbed or problematic.
Restrictive	Layer (if present):							
Type: H	ardpan							
Type: <u>Ha</u> Depth (in	ardpan nches): 3						Hydric So	oil Present? Yes <u>√</u> No
Type: <u>Har</u> Depth (in Remarks:	nches): 3						Hydric So	oil Present? Yes <u>√</u> No
Type: H: Depth (in Remarks:	OGY	:					Hydric So	oil Present? Yes <u>√</u> No
Type: H: Depth (in Remarks:  YDROLO Wetland Hy	OGY vdrology Indicators		ed: check all that app	olv)				
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi	OGY vdrology Indicators		ed; check all that app	•			Sec	ondary Indicators (2 or more required)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface	OGY vdrology Indicators icators (minimum of ea Water (A1)		Salt Crus	t (B11)			Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Type: H: Depth (in Remarks:  YDROLC Wetland Hy Primary Indi Surface High W	OGY vdrology Indicators icators (minimum of e) Water (A1) Vater Table (A2)		Salt Crus Biotic Cru	t (B11) ist (B12)	es (B13)		Sec —	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W. Saturati	OGY vdrology Indicators icators (minimum of ea Water (A1)	one requir	Salt Crus Biotic Cru Aquatic Ir	t (B11) ist (B12) nvertebrate			Sec —	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M	OGY vdrology Indicators icators (minimum of a water (A1) later Table (A2) ion (A3)	one requir	Salt Crus Biotic Cru Aquatic Ir Hydroger	t (B11) ust (B12) nvertebrate n Sulfide C	dor (C1)	J Living Ro	Sec	Condary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W: Saturati Water M Sedime	OGY  vdrology Indicators icators (minimum of exert (A1) vater Table (A2) ion (A3) Marks (B1) (Nonrive	one requir rine) onriverine	Salt Crus Biotic Cru Aquatic Ir Hydroger	t (B11) ust (B12) nvertebrate Sulfide C	dor (C1) eres along	_	Sec	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De	OGY vorology Indicators icators (minimum of external (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No	one requir rine) onriverine	Salt Crus Biotic Cru Aquatic Ir Hydroger )	t (B11) ust (B12) nvertebrate Sulfide C Rhizosphe of Reduc	odor (C1) eres along ed Iron (C	_	Sec	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W Saturati Water N Sedime Drift De Surface	OGY  vdrology Indicators icators (minimum of ele e Water (A1) vlater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No	one requir rine) onriverine erine)	Salt Crus Biotic Cru Aquatic Ir Hydroger )	t (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe of Reduct	odor (C1) eres along ed Iron (C ion in Tille	(4)	Sec ————————————————————————————————————	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Surface Inundat	OGY  vdrology Indicators icators (minimum of all e Water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6)	one requir rine) onriverine erine)	Salt Crus Biotic Cru Aquatic Ir Hydroger )	t (B11) ust (B12) nvertebrate Sulfide C Rhizosphe of Reduct R Surface	eres along eres along ed Iron (C ion in Tille (C7)	(4)	Sec ————————————————————————————————————	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Type: His Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Surface Inundat Water-S	orches): 3  OGY  Varology Indicators icators (minimum of ele Water (A1) Vater Table (A2) ion (A3)  Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive ele Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9)	one requir rine) onriverine erine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen ) ✓ Oxidized Presence Recent In B7) Thin Muc	t (B11) ust (B12) nvertebrate Sulfide C Rhizosphe of Reduct R Surface	eres along eres along ed Iron (C ion in Tille (C7)	(4)	Sec ————————————————————————————————————	Condary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Type: H: Depth (in Remarks:  YDROLC  Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De V Surface Inundat Water-S Field Obser	OGY  vdrology Indicators icators (minimum of a Water (A1) vdrater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations:	rine) onriverine erine) Imagery (	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate Sulfide C Rhizosphe of Reduct on Reduct k Surface splain in Re	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	ed Soils (C	Sec ————————————————————————————————————	Condary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Type: H: Depth (in Remarks:  YDROLC Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De ✓ Surface Inundat Water-S Field Obsel	OGY  vdrology Indicators icators (minimum of a Water (A1) vdrater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations:	rine) onriverine erine) Imagery (	Salt Crus Biotic Cru Aquatic Ir Hydroger )	t (B11) ust (B12) nvertebrate Sulfide C Rhizosphe of Reduct on Reduct k Surface splain in Re	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	ed Soils (C	Sec ————————————————————————————————————	Condary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De V Surface Inundat Water-S Field Obser Surface Water Table Saturation F	OGY  vdrology Indicators icators (minimum of a Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ition Visible on Aerial Stained Leaves (B9) rvations: ater Present?	rine) onriverine erine) Imagery (	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate s Sulfide C Rhizosphe of Reduct on Reduct k Surface cplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	ed Soils (C	ots (C3) 6)	Condary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Type: H: Depth (in Remarks:    YDROLO   Wetland Hy   Primary Indi   Surface   High W.   Saturati   Water N   Sedime   Drift De   Surface   Inundat   Water-S   Field Obsel   Surface Water Table   Saturation F   Cincludes ca	OGY  vdrology Indicators icators (minimum of all e Water (A1) fater Table (A2) ion (A3)  Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) onriverine erine) Imagery ( //es //es	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate s Sulfide C Rhizosphe of Reduct on Reduct k Surface cplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	ed Soils (C	Sec ————————————————————————————————————	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: H: Depth (in Remarks:  IYDROLC Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De V Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes can Describe Re	OGY  vdrology Indicators icators (minimum of all e Water (A1) fater Table (A2) ion (A3)  Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) onriverine erine) Imagery ( //es //es	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) ust (B12) nvertebrate s Sulfide C Rhizosphe of Reduct on Reduct k Surface cplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	ed Soils (C	Sec ————————————————————————————————————	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De V Surface Inundat Water-S Field Obsel Surface Water Table Saturation F (includes ca Describe Re	OGY  vdrology Indicators icators (minimum of a Water (A1) dater Table (A2) ion (A3)  Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ater Present? Present? Present? pullary fringe) ecorded Data (strean	rine) porriverine erine) Imagery ( /es /es n gauge, r	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) ust (B12) nvertebrate s Sulfide C Rhizosphe of Reduct on Reduct k Surface cplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	ed Soils (C	Sec ————————————————————————————————————	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: H: Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De V Surface Inundat Water-S Field Obsel Surface Water Table Saturation F (includes ca Describe Re	OGY  vdrology Indicators icators (minimum of all e Water (A1) fater Table (A2) ion (A3)  Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) porriverine erine) Imagery ( /es /es n gauge, r	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) ust (B12) nvertebrate s Sulfide C Rhizosphe of Reduct on Reduct k Surface cplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	ed Soils (C	Sec ————————————————————————————————————	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: H: Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De V Surface Inundat Water-S Field Obsel Surface Water Table Saturation Fincludes ca Describe Re	OGY  vdrology Indicators icators (minimum of a Water (A1) dater Table (A2) ion (A3)  Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ater Present? Present? Present? pullary fringe) ecorded Data (strean	rine) porriverine erine) Imagery ( /es /es n gauge, r	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) ust (B12) nvertebrate s Sulfide C Rhizosphe of Reduct on Reduct k Surface cplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	ed Soils (C	Sec ————————————————————————————————————	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	nto County	Sampling Date:10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 2
Investigator(s): A, Sennett, A. Godinho	Section, Township, Ra	inge: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave,	convex, none): none	Slope (%):0
Subregion (LRR):	Lat: 38.47540505	Long: <u>-121.1745692</u>	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes			
Are climatic / hydrologic conditions on the site typical for t			
Are Vegetation, Soil, or Hydrology			oresent? Yes No _ ✓
Are Vegetation, Soil, or Hydrology		eeded, explain any answei	
SUMMARY OF FINDINGS – Attach site ma	p snowing sampling point i	ocations, transects	, important reatures, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes			
Wetland Hydrology Present? Yes	. Within a wetiai	nd? Yes	No
Remarks:			
Associated Feature: SW01			
7 toodolated 7 edtal er of to 1			
VEGETATION – Use scientific names of pla	unte		
VEGETATION – Ose scientific fiames of pia	Absolute Dominant Indicator	Dominance Test work	shoot:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Sp	
1			or FAC:0 (A)
2		Total Number of Domina	ant
3		Species Across All Stra	ta: <u>2</u> (B)
4		Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, o	or FAC:0 (A/B)
1.		Prevalence Index worl	ksheet:
2		Total % Cover of:	Multiply by:
3			x 1 =
4			x 2 =
5			x 3 =
Herb Stratum (Plot size: 5m x 5m )	= Total Cover	-	x 4 = x 5 =
1. Holocarpha virgate	<u>25</u> <u>Y</u> <u>NL</u>		(A) (B)
2. Bromus hordeaceus			
3			= B/A =
4		Hydrophytic Vegetatio	
5		Dominance Test is	
6		Prevalence Index is	s ≤3.0° otations¹ (Provide supporting
7			s or on a separate sheet)
8	100 = Total Cover	Problematic Hydror	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover		
1.		<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must
2			inded of problematic.
	= Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	ver of Biotic Crust0		s No <u>√</u>
Remarks:		•	
Grazed			

	atrix			x Feature				
(inches) Color (mo	oist) %	Cold	or (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
1" 7.5 YR 3/1	100							
<del></del>	<del></del>							
							-	
T 0.0							. 21	
Type: C=Concentration, Hydric Soil Indicators: (						d Sand Gr		ation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
,	Applicable to	ali LKKS, I			eu.)			•
Histosol (A1) Histic Epipedon (A2)			Sandy Red Stripped Ma					luck (A9) ( <b>LRR C</b> ) luck (A10) ( <b>LRR B</b> )
Black Histic (A3)		_	Loamy Muc		I (F1)		<del></del>	ed Vertic (F18)
Hydrogen Sulfide (A4)	)		Loamy Gley	-	. ,			arent Material (TF2)
Stratified Layers (A5)			Depleted M		(1 _)			Explain in Remarks)
1 cm Muck (A9) (LRR			Redox Dark		(F6)			, ,
Depleted Below Dark	,		Depleted D		. ,			
Thick Dark Surface (A			Redox Dep	ressions (	F8)		<sup>3</sup> Indicators	of hydrophytic vegetation and
Sandy Mucky Mineral		_	Vernal Pool	ls (F9)				nydrology must be present,
Sandy Gleyed Matrix							unless di	sturbed or problematic.
Restrictive Layer (if pres	ent):							
Type: <u>Hardpan</u>								
<b>5</b>					Hydric Soil	Present? Yes No ✓		
Depth (inches): 1							Tiyunc 3011	11000Ht. 100 NO
Depth (inches): 1							Tiyune son	NO
Remarks:							Tryunc 30ii	100 <u>-</u> 100
Remarks:							Tryunc 30ii	- 100 100
YDROLOGY	ators:						Tryunc 30ii	- 100 110
Remarks:  YDROLOGY  Wetland Hydrology Indic		ired; check	all that appl	y)				dary Indicators (2 or more required)
Remarks:  YDROLOGY  Wetland Hydrology Indic		ired; check	all that appl				Secon	
YDROLOGY Wetland Hydrology Indic	um of one requ	_	• •	(B11)			<u>Secon</u> W	dary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1)	um of one requ	_	_ Salt Crust	(B11) st (B12)	es (B13)		<u>Secon</u> W Se	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
YDROLOGY Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2	um of one requ		_ Salt Crust _ Biotic Crus	(B11) st (B12) vertebrate	` '		<u>Secon</u> W Se Di	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)	um of one requ )  puriverine)	- - -	_ Salt Crust _ Biotic Crus _ Aquatic In	(B11) st (B12) vertebrate Sulfide Od	dor (C1)	Living Roo	Secon W Se Di Di	dary Indicators (2 or more required) fater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimumous Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (No	um of one requ ) onriverine) 2) (Nonriverin	- - -	Salt Crust Biotic Crust Aquatic In Hydrogen	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe	dor (C1) res along	_	Secon  — W — Se — Di — Di — Di ts (C3) — Di	dary Indicators (2 or more required) later Marks (B1) (Riverine) lediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Remarks:    YDROLOGY	um of one requ ) onriverine) 2) (Nonriverin onriverine)	- - -	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce	dor (C1) res along ed Iron (C4	_	Secon W Se Di Di Di ts (C3) Di	dary Indicators (2 or more required) later Marks (B1) (Riverine) lediment Deposits (B2) (Riverine) lediment Deposits (B3) (Riverine)
Remarks:    YDROLOGY	um of one requ ) onriverine) 2) (Nonriverin onriverine) 36)	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (C4 on in Tille	1)	Secon  W Secon  Do Colors (C3)  Colors (C3)  Secon  Colors (C3)  Secon	dary Indicators (2 or more required) later Marks (B1) (Riverine) lediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2  Saturation (A3)  Water Marks (B1) (No  Sediment Deposits (B  Drift Deposits (B3) (No  Surface Soil Cracks (B	um of one requ ) onriverine) 2) (Nonriverine) onriverine) 36) Aerial Imagery	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce on Reducti c Surface (	dor (C1) res along ed Iron (C4 on in Tille	1)	Secon  W Secon  Di Colors (C3) Colors (C3) Secon Colors (C3) Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2  Saturation (A3)  Water Marks (B1) (No  Sediment Deposits (B  Drift Deposits (B3) (No  Surface Soil Cracks (I  Inundation Visible on	um of one requ ) onriverine) 2) (Nonriverine) onriverine) 36) Aerial Imagery	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce on Reducti c Surface (	dor (C1) res along ed Iron (C4 on in Tille	1)	Secon  W Secon  Di Colors (C3) Colors (C3) Secon Colors (C3) Secon	dary Indicators (2 or more required) Tater Marks (B1) (Riverine) Tediment Deposits (B2) (Riverine) Trift Deposits (B3) (Riverine) Trainage Patterns (B10) Try-Season Water Table (C2) Trayfish Burrows (C8) Traiting the state of
Remarks:    YDROLOGY   Wetland Hydrology Indic   Primary Indicators (minimu   Surface Water (A1)   High Water Table (A2   Saturation (A3)   Water Marks (B1) (No   Sediment Deposits (B3) (No   Surface Soil Cracks (Inundation Visible on   Water-Stained Leaves	onriverine) 2) (Nonriverine) B6) Aerial Imagery (B9)	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce on Reducti a Surface ( blain in Re	dor (C1) res along ed Iron (C4 on in Tiller (C7) emarks)	l) d Soils (C6	Secon  W Secon  Di Colors (C3) Colors (C3) Secon Colors (C3) Secon	dary Indicators (2 or more required) Tater Marks (B1) (Riverine) Tediment Deposits (B2) (Riverine) Trift Deposits (B3) (Riverine) Trainage Patterns (B10) Try-Season Water Table (C2) Trayfish Burrows (C8) Traiting the state of
Primary Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (No Sediment Deposits (B) Unift Deposits (B) Surface Soil Cracks (Inundation Visible on Water-Stained Leaves Field Observations:	onriverine) 2) (Nonriverine) B6) Aerial Imagery (B9)	e) (B7) _ No✓	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce on Reducti a Surface ( colain in Re	dor (C1) res along ed Iron (C4 on in Tiller (C7) emarks)	l) d Soils (C6	Secon  W Secon  Di Colors (C3) Colors (C3) Secon Colors (C3) Secon	dary Indicators (2 or more required) Tater Marks (B1) (Riverine) Tediment Deposits (B2) (Riverine) Trift Deposits (B3) (Riverine) Trainage Patterns (B10) Try-Season Water Table (C2) Trayfish Burrows (C8) Traiting the state of
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (No)  Sediment Deposits (B3) (No)  Surface Soil Cracks (I)  Inundation Visible on  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?	um of one requ ) onriverine) 2) (Nonriverine) 36) Aerial Imagery s (B9) Yes Yes	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce on Reducti s Surface ( colain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tiller (C7) emarks)	l) d Soils (C6	Secon  W Secon  Di Cits (C3)  Si Si F	dary Indicators (2 or more required) fater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2  Saturation (A3)  Water Marks (B1) (No  Sediment Deposits (B3) (No  Surface Soil Cracks (Inundation Visible on  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)	onriverine) 2) (Nonriverine) 36) Aerial Imagery 5 (B9)  Yes Yes Yes	e) (B7) _ No _✓ _ No _✓	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (in Depth (in	(B11) st (B12) vertebrate Sulfide Oo Rhizosphe of Reduce on Reducti a Surface ( colain in Re ches): ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Secon  W Secon  Di Colors (C3) Colors (C3) F/	dary Indicators (2 or more required) Tater Marks (B1) (Riverine) Tediment Deposits (B2) (Riverine) Trift Deposits (B3) (Riverine) Trainage Patterns (B10) Try-Season Water Table (C2) Trayfish Burrows (C8) Traiting the state of
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (No  Sediment Deposits (B3) (No  Surface Soil Cracks (I)  Inundation Visible on  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?	onriverine) 2) (Nonriverine) 36) Aerial Imagery 5 (B9)  Yes Yes Yes	e) (B7) _ No _✓ _ No _✓	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (in Depth (in	(B11) st (B12) vertebrate Sulfide Oo Rhizosphe of Reduce on Reducti a Surface ( colain in Re ches): ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Secon  W Secon  Di Colors (C3) Colors (C3) F/	dary Indicators (2 or more required) fater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2  Saturation (A3)  Water Marks (B1) (No  Sediment Deposits (B3) (No  Surface Soil Cracks (Inundation Visible on  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)	onriverine) 2) (Nonriverine) 36) Aerial Imagery 5 (B9)  Yes Yes Yes	e) (B7) _ No _✓ _ No _✓	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (in Depth (in	(B11) st (B12) vertebrate Sulfide Oo Rhizosphe of Reduce on Reducti a Surface ( colain in Re ches): ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Secon  W Secon  Di Colors (C3)  C1  S1  F/	dary Indicators (2 or more required) fater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Remarks:  YDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2  Saturation (A3)  Water Marks (B1) (No  Sediment Deposits (B3) (No  Surface Soil Cracks (Inundation Visible on  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)	onriverine) 2) (Nonriverine) 36) Aerial Imagery 5 (B9)  Yes Yes Yes	e) (B7) _ No _✓ _ No _✓	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (in Depth (in	(B11) st (B12) vertebrate Sulfide Oo Rhizosphe of Reduce on Reducti a Surface ( colain in Re ches): ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Secon  W Secon  Di Colors (C3)  C1  S1  F/	dary Indicators (2 or more required) fater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Remarks:    YDROLOGY   Wetland Hydrology Indic   Primary Indicators (minimu   Surface Water (A1)   High Water Table (A2   Saturation (A3)   Water Marks (B1) (No   Sediment Deposits (B3) (No   Surface Soil Cracks (I   Inundation Visible on   Water-Stained Leaves   Field Observations:   Surface Water Present?   Water Table Present?   Water Table Present?   Saturation Present?   (includes capillary fringe)   Describe Recorded Data (	onriverine) 2) (Nonriverine) 36) Aerial Imagery 5 (B9)  Yes Yes Yes	e) (B7) _ No _✓ _ No _✓	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (in Depth (in	(B11) st (B12) vertebrate Sulfide Oo Rhizosphe of Reduce on Reducti a Surface ( colain in Re ches): ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Secon  W Secon  Di Colors (C3)  C1  S1  F/	dary Indicators (2 or more required) fater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Remarks:    YDROLOGY   Wetland Hydrology Indic   Primary Indicators (minimu   Surface Water (A1)   High Water Table (A2   Saturation (A3)   Water Marks (B1) (No   Sediment Deposits (B3) (No   Surface Soil Cracks (I   Inundation Visible on   Water-Stained Leaves   Field Observations:   Surface Water Present?   Water Table Present?   Water Table Present?   Saturation Present?   (includes capillary fringe)   Describe Recorded Data (	onriverine) 2) (Nonriverine) 36) Aerial Imagery 5 (B9)  Yes Yes Yes	e) (B7) _ No _✓ _ No _✓	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (in Depth (in	(B11) st (B12) vertebrate Sulfide Oo Rhizosphe of Reduce on Reducti a Surface ( colain in Re ches): ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Secon  W Secon  Di Colors (C3)  C1  S1  F/	dary Indicators (2 or more required) fater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) raturation Visible on Aerial Imagery (C9 rallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: 10/27/2020						
Applicant/Owner: D.E. Shaw Renewable Investments	;			State: CA	_ Sampling Point: _	3
Investigator(s): A, Sennett, A. Godinho	§	Section, To	wnship, Ra	nge: Township 7N / Ra	ange 7E / Section	n 11
Landform (hillslope, terrace, etc.): Flatland		Local relief	(concave,	convex, none): Concave	e Slo	oe (%):0
Subregion (LRR):	Lat: 38.4	17523757		Long: -121.1747089	Datu	m: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for t						
Are Vegetation _ ✓ _, Soil, or Hydrology				'Normal Circumstances"		No <b>√</b>
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		<u> </u>
SUMMARY OF FINDINGS – Attach site ma						atures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓  Yes  ✓  Yes  ✓  Remarks:	No		e Sampled n a Wetlar		/ No	
Associated feature: SW-03. Grazed						
VEGETATION – Use scientific names of pla	ents.					
		Dominant	Indicator	Dominance Test worl	ksheet:	
Tree Stratum (Plot size:) 1				Number of Dominant S That Are OBL, FACW,		(A)
2				Total Number of Domin Species Across All Stra		(B)
4	0			Percent of Dominant S That Are OBL, FACW,		.7 (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wo		
1				Total % Cover of:		v bv:
2 3				OBL species		
4				FACW species		
5.				FAC species		
		= Total Cov	/er	FACU species	x 4 =	
Herb Stratum (Plot size: 1m x 1m)				UPL species	x 5 =	
1. Hordeum marinum		Y	FAC	Column Totals:	(A)	(B)
2. Rumex dentatus		<u>N</u>	FACW	Daniel and Index	D / A	
3. Festuca perennis		<u>Y</u>	FACW		x = B/A =	
4. Holocarpha virgate	-	Y	UPL	Hydrophytic Vegetati  ✓ Dominance Test is		
5. Bromus hordeaceus		N	FACU	Prevalence Index		
6					aptations <sup>1</sup> (Provide	supporting
7 8			-		s or on a separate	
0		= Total Cov	/er	Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric so be present, unless dist		
2				, ,		
% Bare Ground in Herb Stratum25 % Co		= Total Covust0		Hydrophytic Vegetation Present? Ye	es <u>√</u> No _	
Remarks:				1		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox	x Features		. ?	_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks		
0-3	7.5 YR 4/1	93	5 YR 4/6	7	<u>C</u>	PL	Silty Clay			
					'			_		
					-					
		_								
					-					
							-			
<sup>1</sup> Type: C=Ce	oncentration, D=De	oletion, RM	l=Reduced Matrix, CS	=Covered	d or Coate	ed Sand G		ation: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators: (Applic	able to al	I LRRs, unless other	wise note	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Sandy Redo					uck (A9) ( <b>LRR C</b> )		
-	oipedon (A2)		Stripped Ma					uck (A10) ( <b>LRR B</b> )		
	stic (A3)		Loamy Mucl					ed Vertic (F18)		
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b>	<b>C</b> )	Loamy Gley Depleted Ma		(FZ)		<del></del>	rent Material (TF2) Explain in Remarks)		
	ick (A9) (LRR D)	<b>C</b> )	✓ Redox Dark		F6)		Other (i	Explain in Remarks)		
	d Below Dark Surfac	ce (A11)	Depleted Da		,					
	ark Surface (A12)	, ,	Redox Depr				<sup>3</sup> Indicators of	of hydrophytic vegetation and		
-	lucky Mineral (S1)		Vernal Pools	s (F9)			wetland h	nydrology must be present,		
	Gleyed Matrix (S4)						unless di	sturbed or problematic.		
	Layer (if present):									
Type: H								,		
Depth (in	ches): <u>3</u>						Hydric Soil	Present? Yes ✓ No		
Remarks:										
Same as S	SW-01b									
HYDROLO	GY									
Wetland Hy	drology Indicators	:								
Primary India	cators (minimum of	one require	ed; check all that apply	/)			Secondary Indicators (2 or more required)			
Surface	Water (A1)		Salt Crust	(B11)			W	ater Marks (B1) (Riverine)		
High Wa	ater Table (A2)		Biotic Crus	t (B12)			Sediment Deposits (B2) (Riverine)			
Saturation	on (A3)		Aquatic Inv	ertebrate	s (B13)		Drift Deposits (B3) (Riverine)			
Water M	larks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		Dr	ainage Patterns (B10)		
Sedimer	nt Deposits (B2) (No	nriverine)			_	-		ry-Season Water Table (C2)		
Drift Dep	oosits (B3) (Nonrive	erine)	Presence of					ayfish Burrows (C8)		
	Soil Cracks (B6)		Recent Iron			d Soils (C6		aturation Visible on Aerial Imagery (C9)		
	on Visible on Aerial	Imagery (E		,	,			nallow Aquitard (D3)		
	tained Leaves (B9)		Other (Exp	lain in Re	marks)		FA	AC-Neutral Test (D5)		
Field Obser										
Surface Wat			No <u>✓</u> Depth (inc							
Water Table			No <u>✓</u> Depth (inc							
Saturation P (includes car		/es	No <u>✓</u> Depth (inc	ches):		Wetl	and Hydrology	Present? Yes No		
		n gauge, m	onitoring well, aerial p	hotos, pr	evious ins	spections),	if available:			
	•									
Remarks:										
	kc									
Pock-mar	K2									

Project/Site: Sloughhouse Solar Energy Project	Project/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: 10/27/2020						
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 4				
Investigator(s): A, Sennett, A. Godinho	Section, Township, Ra	inge: <u>Township 7N / Ra</u>	ange 7E / Section 11				
Landform (hillslope, terrace, etc.): Flatlands	Local relief (concave,	convex, none): none	Slope (%):0				
Subregion (LRR):	Lat: 38.47524044	Long: -121.174652	Datum: WGS84				
Soil Map Unit Name: Galt clay, 2 - 5% slopes							
Are climatic / hydrologic conditions on the site typical for th							
Are Vegetation, or Hydrology			oresent? Yes No _ ✓				
Are Vegetation, Soil, or Hydrology		eeded, explain any answe					
SUMMARY OF FINDINGS – Attach site map	snowing sampling point i	ocations, transects	s, important reatures, etc.				
Hydrophytic Vegetation Present? Yes I Hydric Soil Present? Yes I Wetland Hydrology Present? Yes ✓ I Remarks:	No within a Watlan		No <u> </u>				
Associated Feature: SW 03							
VEGETATION – Use scientific names of plan	nts.						
Tree Stratum (Plot size:) 1	Absolute Dominant Indicator % Cover Species? Status	Dominance Test work  Number of Dominant S That Are OBL, FACW,					
2		Total Number of Domin Species Across All Stra					
4	= Total Cover	Percent of Dominant Sp That Are OBL, FACW,	pecies or FAC: 0 (A/B)				
1		Prevalence Index wor	ksheet:				
2.		Total % Cover of:	Multiply by:				
3		OBL species	x 1 =				
4		FACW species	x 2 =				
5		·	x 3 =				
Herb Stratum (Plot size: 1m x 1m )	= Total Cover		x 4 =				
1. Bromus hordeaceus	75 Y FACU		x 5 =				
2. Holocarpha virgate		Column Totals.	(A) (B)				
3.		Prevalence Index	: = B/A =				
4		Hydrophytic Vegetation	on Indicators:				
5		Dominance Test is					
6		Prevalence Index is					
7			ptations <sup>1</sup> (Provide supporting s or on a separate sheet)				
8			phytic Vegetation <sup>1</sup> (Explain)				
Woody Vine Stratum (Plot size:)	= Total Cover						
1		<sup>1</sup> Indicators of hydric soi be present, unless distu	il and wetland hydrology must urbed or problematic.				
	0 = Total Cover	Hydrophytic					
% Bare Ground in Herb Stratum 0 % Cove	er of Biotic Crust0	Vegetation Present? Ye	es No_ <u>√</u> _				
Remarks:							
Grazed area							

Depth	Matrix			ox Feature	S					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks		
0-2	7.5 YR 3/2	97	5 yr 4/6	3	С	PL	Silty clay			
				_						
				_						
			-			-				
					·					
			I=Reduced Matrix, C			ed Sand G		ation: PL=Pore Lining, M=Matrix.		
•		cable to al	I LRRs, unless other		ea.)			for Problematic Hydric Soils <sup>3</sup> :		
Histoso	i (A1) pipedon (A2)		Sandy Red Stripped M					uck (A9) (LRR C)		
	listic (A3)		Stripped M		d (F1)			uck (A10) ( <b>LRR B</b> ) d Vertic (F18)		
_	en Sulfide (A4)		Loamy Gle					rent Material (TF2)		
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N		( – /		·	Explain in Remarks)		
	uck (A9) ( <b>LRR D</b> )	,	Redox Dar		(F6)			,		
Deplete	d Below Dark Surfa	ce (A11)	Depleted D							
	ark Surface (A12)		Redox Dep		F8)			of hydrophytic vegetation and		
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,		
	Gleyed Matrix (S4)  Layer (if present):						uniess dis	sturbed or problematic.		
Type: H										
	iches): 2						Hydric Soil F	Present? Yes No		
Remarks:	<u> 2</u>						Hydric 30ii i	resent: lesNov		
HYDROLO	GY									
Wetland Hy	drology Indicators	:								
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Second	dary Indicators (2 or more required)		
_	Water (A1)		Salt Crus	t (B11)			Water Marks (B1) (Riverine)			
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Se	diment Deposits (B2) (Riverine)		
Saturati	on (A3)		Aquatic Ir		. ,		Dri	ift Deposits (B3) (Riverine)		
	Marks (B1) (Nonrive		Hydrogen					ainage Patterns (B10)		
	nt Deposits (B2) (No				_	-	· · · —	y-Season Water Table (C2)		
	posits (B3) (Nonrive	erine)	Presence					ayfish Burrows (C8)		
	Soil Cracks (B6)			on Reducti		d Soils (C		turation Visible on Aerial Imagery (C9)		
· · · · · · · · · · · · · · · · · · ·	ion Visible on Aerial		· —	k Surface (	. ,		· · · · · · · · · · · · · · · · · · ·	allow Aquitard (D3)		
	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)		FA	C-Neutral Test (D5)		
Field Obser		. ,								
Surface Wa			No ✓ Depth (ir							
Water Table			No ✓ Depth (ir					,		
Saturation F (includes ca	Present? pillary fringe)	Yes	No <u>✓</u> Depth (ir	nches):		Wet	land Hydrology	Present? Yes No		
		m gauge, m	onitoring well, aerial	photos, pr	evious ins	spections),	, if available:			
Remarks:										

Project/Site: Sloughhouse Solar Energy Project	<sub>y:</sub> Sacrame	nto County	_ Sampling Date: _	10/27/2020		
		State: CA	· -			
Investigator(s): A, Sennett and A. Godinho						
Landform (hillslope, terrace, etc.): Flatlands				=		
Subregion (LRR):						
				NWI classifi		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrologysi				"Normal Circumstances"		No. ✓
Are Vegetation, Soil, or Hydrologyn				eeded, explain any answ	-	
SUMMARY OF FINDINGS – Attach site map s						atures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓ No  No  No  No  No  No  No  No  No  No			he Sampled hin a Wetlar		/ No	
Associated feature: SWS 01. Grazed.						
VEGETATION – Use scientific names of plant	is.					
Tree Stratum (Plot size:) 1	% Cover	Species?		Dominance Test wor Number of Dominant S That Are OBL, FACW,	Species	(A)
3				Total Number of Domi Species Across All Str		(B)
4	0			Percent of Dominant S That Are OBL, FACW,		<u>0</u> (A/B)
1				Prevalence Index wo	rksheet:	
2.				Total % Cover of:	Multiply	/ by:
3.				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species	x 3 =	
		= Total Co	over	FACU species		
Herb Stratum (Plot size: 1m x 1m )	F.0		F4.0	UPL species	x 5 =	
1. Hordeum marinum		Y	FAC	Column Totals:	(A)	(B)
2. <u>Festuca perennis</u>		N	FACW	Prevalence Inde	x = B/A =	
Holocarpha virgate     Bromus hordeaceus			UPL	Hydrophytic Vegetati		
B 1 1 1	-		<u>FACU</u> FACW	✓ Dominance Test is		
Rumex dentatus     .      .				Prevalence Index		
7.				Morphological Ada		supporting
8.					ks or on a separate	,
		= Total Co	over	Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric so be present, unless dist		
2		= Total Co	over	Hydrophytic		
% Bare Ground in Herb Stratum				Vegetation	es <u>√</u> No _	<u> </u>
Remarks:						

SOIL

Sampling Point: 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	<u></u> %	Redox Color (moist)	x Feature %	Type <sup>1</sup>	_Loc²	Texture	Remarks		
(11101100)	Color (moloc)		Color (molot)		Туро		TOXIGIO	Romano		
					· ——					
				· <del></del>	-			<u> </u>		
					·					
				· ·						
				· ·						
¹Type: C=Co	oncentration, D=Depl	etion RM=R	educed Matrix CS	S=Covered	d or Coate	d Sand Gr	rains <sup>2</sup> l (	ocation: PL=Pore Lining, M=Matrix.		
	Indicators: (Applica					a cana on		rs for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Sandy Redo				1 cm	Muck (A9) (LRR C)		
Histic Ep	pipedon (A2)		Stripped Ma	trix (S6)			2 cm	Muck (A10) (LRR B)		
Black Hi	` '		Loamy Muc					uced Vertic (F18)		
	n Sulfide (A4)	.,	Loamy Gley		(F2)			Parent Material (TF2)		
	Layers (A5) (LRR C	;)	Depleted Ma		(Fc)		Othe	r (Explain in Remarks)		
	ick (A9) ( <b>LRR D</b> ) d Below Dark Surface	Δ(Δ11)	Redox Dark Depleted Da		` '					
	ark Surface (A12)	(7(1)	Redox Depr				3Indicator	s of hydrophytic vegetation and		
	lucky Mineral (S1)		Vernal Pools		-,			d hydrology must be present,		
Sandy G	Bleyed Matrix (S4)						unless	disturbed or problematic.		
Restrictive I	_ayer (if present):									
Type:			_							
Depth (inc	ches):		_				Hydric So	il Present? Yes No		
Remarks:							•			
HYDROLO										
_	drology Indicators:		shaalaall dhataaah				0			
	cators (minimum of or	<u>ne requirea; c</u>						ondary Indicators (2 or more required)		
	Water (A1)		Salt Crust	` '			Water Marks (B1) (Riverine)			
High wa	iter Table (A2)		Biotic Crus	. ,	o (D12)		Sediment Deposits (B2) (Riverine)			
	arks (B1) ( <b>Nonriveri</b>	no)	Aquatic Inv					Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10)		
	nt Deposits (B2) ( <b>Nor</b>		Hydrogen ✓ Oxidized R			iving Roo		Dry-Season Water Table (C2)		
	posits (B3) (Nonriver		Presence of		_	-		Crayfish Burrows (C8)		
	Soil Cracks (B6)	ilic)	Recent Iro		,	,		Saturation Visible on Aerial Imagery (C9)		
	on Visible on Aerial Ir	magery (B7)	Thin Muck			. 00.10 (00		Shallow Aquitard (D3)		
	tained Leaves (B9)		Other (Exp		. ,			FAC-Neutral Test (D5)		
Field Obser					,					
Surface Water	er Present? Ye	es No	Depth (inc	ches):						
Water Table			Depth (inc							
Saturation P			Depth (inc				and Hydrolo	gy Present? Yes ✓ No		
(includes cap	oillary fringe)							g)		
Describe Re	corded Data (stream	gauge, monit	toring well, aerial p	ohotos, pr	evious insp	pections),	if available:			
Remarks:										

Project/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: 10/27/2020						
Applicant/Owner: D.E. Shaw Renewable Investmen	nts	State: CA	Sampling Point: 6			
Investigator(s): A, Sennett, A. Godinho	Section, Township, F	Range: Township 7N / Ra	ange 7E / Section 11			
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave	e, convex, none): none	Slope (%):0			
Subregion (LRR):						
Soil Map Unit Name: Galt clay, 2 - 5% slopes		=				
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology			oresent? Yes No			
Are Vegetation, Soil, or Hydrology		needed, explain any answe				
SUMMARY OF FINDINGS – Attach site m						
		,				
	No ✓ Is the Sampl		,			
	No within a Wet	land? Yes	No <u>√</u> _			
Remarks:						
Associated feature: SW 05						
VEGETATION – Use scientific names of p	plants.					
	Absolute Dominant Indicato	Dominance Test work	rsheet:			
Tree Stratum (Plot size:)	% Cover Species? Status	- Number of Dominant S				
1		_ That Are OBL, FACW,	or FAC: (A)			
2		Total Number of Domir				
3 4		Species Across All Stra	ata: <u>2</u> (B)			
T	= Total Cover	Percent of Dominant S	pecies or FAC:0 (A/B)			
Sapling/Shrub Stratum (Plot size:)						
1		Prevalence Index wor				
2			Multiply by:			
3			x 1 = x 2 =			
4.         5.		<del>-</del>	x 3 =			
- S	= Total Cover	<del>-</del>	x 4 =			
Herb Stratum (Plot size: 1m x 1m )		*	x 5 =			
1. Holocarpha virgate		Column rotals.	(A) (B)			
2. <u>Bromus hordeaceus</u>			, _ D/A _			
3		Hydrophytic Vegetation	a = B/A =			
4		Dominance Test is				
5 6		Prevalence Index i				
7		<del>-</del>	ptations <sup>1</sup> (Provide supporting			
8.		data in Remark	s or on a separate sheet)			
	= Total Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)			
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric so	il and wetland hydrology must			
1		be present, unless dist				
2	= Total Cover	Hydrophytic				
		Vegetation	/			
% Bare Ground in Herb Stratum 0 % 0	Cover of Biotic Crust0	Present? Ye	es No/			
Remarks:						

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirn	n the absence of	indicators.)
Depth	Matrix			ox Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1	7.5 YR 3/2	90	5 yr 4/6	10	_C	PL	Silty clay	
				_				-
								-
	_		_					
1- 0.0							. 21	DI D. III MANA
			=Reduced Matrix, C LRRs, unless othe			ed Sand G		on: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
_		able to all			eu.)			•
Histosol	(A1) ipedon (A2)		Sandy Red Stripped M	. ,				k (A9) (LRR C)
Black His			Stripped M		J (F1)			k (A10) ( <b>LRR B</b> ) Vertic (F18)
	n Sulfide (A4)		Loamy Gle	•	. ,			nt Material (TF2)
	l Layers (A5) ( <b>LRR</b>	C)	Depleted M	-	(1 2)			plain in Remarks)
	ck (A9) ( <b>LRR D</b> )	0)	✓ Redox Dar	, ,	(F6)		Other (EX	plant in remarks)
	Below Dark Surfac	e (A11)	Depleted D		. ,			
	rk Surface (A12)	- (	Redox Dep				<sup>3</sup> Indicators of h	nydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Poo		,			Irology must be present,
Sandy G	leyed Matrix (S4)						unless distu	rbed or problematic.
Restrictive L	ayer (if present):							
Type: Ha	ardpan							
Depth (inc	ches): <u>1</u>						Hydric Soil Pre	esent? Yes <u>√</u> No
Remarks:							1 -	
_								
Same as S	W05b							
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
Primary Indic	ators (minimum of o	ne require	d; check all that app	ly)			Secondar	ry Indicators (2 or more required)
Surface	-		Salt Crust					er Marks (B1) (Riverine)
	ter Table (A2)		Biotic Cru					ment Deposits (B2) (Riverine)
Saturation			Aquatic In		s (B13)			Deposits (B3) (Riverine)
	arks (B1) ( <b>Nonrive</b> r	ine)	Hydrogen					nage Patterns (B10)
	it Deposits (B2) ( <b>No</b>					Living Poo		Season Water Table (C2)
	osits (B3) ( <b>Nonrive</b>		Presence		_	_		fish Burrows (C8)
-	Soil Cracks (B6)	iiie)	Recent Iro					ration Visible on Aerial Imagery (C9)
	, ,	Imagan, (D				iu Solis (Ct		
	on Visible on Aerial	imagery (b			. ,			low Aquitard (D3)
	tained Leaves (B9)		Other (Ex	piairi iri Ke	emarks)		FAC-	-Neutral Test (D5)
Field Observ			Nie / Dentie Co	-1				
Surface Water			No <u>√</u> Depth (in					
Water Table			No✓ Depth (in					
Saturation Pr		'es	No <u>✓</u> Depth (in	iches):		Wetl	and Hydrology P	resent? Yes <u>√</u> No
(includes cap Describe Red		n daude mi	onitoring well, aerial	photos pr	evious in	spections)	if available.	
Describe Nec	oraca Data (stream	r gaage, m	ormorning went, deritar	priotos, pr	CVICUS III	podiono,,	ii avaliabio.	
Remarks:								
Remarks.								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacrame	nto County	Sampling Date: 10/27	7/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	7
Investigator(s): A, Sennett, A. Godinho	;	Section, To	wnship, Ra	nge: Township 7N / Ra	nge 7E / Section 11	
Landform (hillslope, terrace, etc.): flatland		Local relief	(concave,	convex, none): Concave	Slope (%):	0
Subregion (LRR):	Lat: 38.4	47450824		Long: -121.1744418	Datum: WG	S84
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation _ ✓ _, Soil, or Hydrology si				'Normal Circumstances" p		o <b>√</b>
Are Vegetation, Soil, or Hydrology na				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map s						s otc
Somman of Findings - Attach site map s	silowing	Sampiin	g point i	ocations, transects	, important reatures	5, 610.
Hydrophytic Vegetation Present? Yes   ✓ No.		Is th	e Sampled	l Area		
Hydric Soil Present? Yes _ ✓ No Wetland Hydrology Present? Yes _ ✓ No		with	in a Wetlar	nd? Yes <u>√</u>	No	
Remarks:	,					
Associated feature: SW-06. Partially grazed	•					
VECETATION. Her existific names of plantific						
VEGETATION – Use scientific names of plant		Dominant	Indicator	Deminance Test week		
Tree Stratum (Plot size:)		Species?		Dominance Test work  Number of Dominant S		
1				That Are OBL, FACW,		(A)
2				Total Number of Domin	ant	
3				Species Across All Stra		(B)
4				Percent of Dominant Sp		
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW,	or FAC:100	(A/B)
1				Prevalence Index wor	ksheet:	
2				Total % Cover of:	Multiply by:	_
3					x 1 =	
4	-				x 2 =	
5					x 3 =	
Herb Stratum (Plot size: 1m x 1m )	0	= Total Co	ver		x 4 = x 5 =	_
1. Festuca perennis	25	Υ	FACW		X 5 = (A)	– (B)
2. Holocarpha virgate		N	UPL	Column Totals.	(^)	_ (D)
3. Hordeum marinum	25	<u> </u>	FAC	Prevalence Index	= B/A =	_
4. Eryngium castrense	5	N	OBL	Hydrophytic Vegetation		
5. Hypochaeris glabra		<u>N</u>	NL_	✓ Dominance Test is		
6. Bromus hordeaceus			<u>FACU</u>	Prevalence Index is		ut:
7					ptations <sup>1</sup> (Provide supports or on a separate sheet)	
8		= Total Co		Problematic Hydro	phytic Vegetation <sup>1</sup> (Explai	in)
Woody Vine Stratum (Plot size:)	72.3	= 10tal Co	ver			
1					l and wetland hydrology n	nust
2				be present, unless distu	irbed or problematic.	
	0	= Total Co	ver	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 87.5 % Cover	of Biotic Cı	rustC	)		s No	
Remarks:				1		
Change in vegetation cover/ composition						

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/2	90	5 yr 4/6	10	C	PL	Silty clay	•
0-4	7.5 11(3/2		<u> </u>	_ 10		-1-	Sifty clay	
			_				-	
	-							
				<del>-</del>				
								· -
				_			-	
	ncentration D-De	nletion PM	=Reduced Matrix, C	S-Covere	d or Coate	nd Sand G	rains <sup>2</sup> l o	ocation: PL=Pore Lining, M=Matrix.
			LRRs, unless other			u Sanu G		s for Problematic Hydric Soils <sup>3</sup> :
Histosol (			Sandy Red		·,			Muck (A9) ( <b>LRR C</b> )
	ipedon (A2)		Stripped M					Muck (A10) (LRR B)
Black His			Loamy Mu		l (F1)			ced Vertic (F18)
Hydroger	n Sulfide (A4)		Loamy Gle				Red F	Parent Material (TF2)
	Layers (A5) (LRR	C)	Depleted N		•		· <del></del>	(Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )		Redox Dar					
	Below Dark Surfa	ce (A11)	Depleted D					
	rk Surface (A12)		Redox Dep		F8)			s of hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Poo	ols (F9)				hydrology must be present,
	leyed Matrix (S4)  ayer (if present):						uniess	disturbed or problematic.
1769HICHVE L	ayer (ii present).							
	rdnan							
Туре: <u>На</u>							Hydria Sai	Il Brocont? Voc. / No.
Type: <u>Ha</u> Depth (inc							Hydric So	il Present? Yes <u>√</u> No
Type: <u>Ha</u> Depth (inc							Hydric So	Il Present? Yes <u>√</u> No
Type: Ha Depth (inc Remarks:	Shes): <u>4</u>						Hydric Soi	il Present? Yes <u>√</u> No
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd	GY Irology Indicators						Hydric So	Il Present? Yes <u>√</u> No
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd	GY Irology Indicators		d; check all that app	ıly)				ondary Indicators (2 or more required)
Type: Ha Depth (inc Remarks:  YDROLOG Wetland Hyd Primary Indica	GY Irology Indicators		d; check all that app Salt Crus				Seco	
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indicat Surface N	GY  Irology Indicators ators (minimum of			t (B11)			Second Second	ondary Indicators (2 or more required)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indicat Surface N	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2)		Salt Crus Biotic Cru Aquatic Ir	t (B11) ist (B12) nvertebrate	, ,		Seco	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Surface V High Wat Saturatio	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2)	one require	Salt Crus Biotic Cru Aquatic Ir	t (B11) ist (B12)	, ,		Secc	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indic Surface \ High Wat Saturatio Water Ma	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3)	one require	Salt Crus Biotic Cru Aquatic Ir	t (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)	Living Ro	Secc	andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Surface V High Wat Saturation Water Ma Sediment Drift Dep	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce	dor (C1) res along ed Iron (C	1)	Seccion Seccio	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Surface V High Wat Saturatio Water Ma Sedimen Drift Dep	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No	one require rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (Co on in Tille	1)	Secc	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundation	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6)	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along ed Iron (C- on in Tille (C7)	1)	Seccion Seccio	windary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface N High Wat Saturatio Water Ma Sedimen Drift Dep ✓ Surface S Inundatio Water-St	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial rained Leaves (B9)	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (C- on in Tille (C7)	1)	Seccion Seccio	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Saturation Water Ma Sedimen Drift Dep ✓ Surface S Inundation Water-St Field Observ	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations:	one require rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate u Sulfide Or Rhizosphe of Reduce on Reducti k Surface (	dor (C1) ares along ad Iron (Ca) on in Tille (C7) amarks)	t) d Soils (C	Seccion Seccio	windary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Surface V High Water Ma Sediment Drift Dep Surface S Inundation Water-St Field Observ Surface Water	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) evertebrate a Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( eplain in Re	dor (C1) res along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C	Seccion Seccio	windary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Saturation Water Ma Sedimen Drift Dep ✓ Surface S Inundation Water-St Field Observ	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) evertebrate a Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( eplain in Re	dor (C1) res along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C	Seccion Seccio	windary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Saturation Water Ma Sedimen Drift Depty Surface S Inundation Water-St Field Observ Surface Water Saturation Pro	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial ained Leaves (B9) vations: er Present? Present?	rine) priverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate s Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re	dor (C1) res along ed Iron (Coon in Tille (C7) emarks)	t) d Soils (C	ots (C3)	windary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Surface \( \) High Water Ma Sedimen Drift Dep \( \) Surface \( \) Inundation Water-St Field Observ Surface Water Water Table If Saturation Pro (includes cap	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations: er Present? Present? esent? illary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) wres along ed Iron (Coon in Tille (C7) emarks)	t) d Soils (C	ots (C3)	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Saturatio Water Ma Sediment Drift Dep V Surface S Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro (includes cap Describe Rec	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations: er Present? Present? esent? illary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) wres along ed Iron (Coon in Tille (C7) emarks)	t) d Soils (C	ots (C3)	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indication Surface \( \) High Water Ma Sedimen Drift Dep \( \) Surface \( \) Inundation Water-St Field Observ Surface Water Water Table If Saturation Pro (includes cap	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations: er Present? Present? esent? illary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) wres along ed Iron (Coon in Tille (C7) emarks)	t) d Soils (C	ots (C3)	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Ha Depth (inc Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Saturatio Water Ma Sediment Drift Dep V Surface S Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro (includes cap Describe Rec	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations: er Present? Present? esent? illary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) wres along ed Iron (Coon in Tille (C7) emarks)	t) d Soils (C	ots (C3)	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	nto County	Sampling Date:10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investments	5	State: CA	Sampling Point: 8
Investigator(s): A, Sennett, A. Godinho	Section, Township, Ra	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Flatlands	Local relief (concave,	convex, none): concave	Slope (%):0
Subregion (LRR):	Lat: 38.47444778	Long: -121.1753235	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes			
Are climatic / hydrologic conditions on the site typical for t			
Are Vegetation _ ✓ _, Soil, or Hydrology			resent? Yes No _✓
Are Vegetation, Soil, or Hydrology		eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site ma	p snowing sampling point i	ocations, transects	, important reatures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓  Yes  ✓  Yes  ✓	No within a Wetlar		No
Remarks:			
Associated feature: SW07. Grazed.			
VEGETATION – Use scientific names of pla	ants		
VEGETATION OSC SCIENTING NAMES OF PIC	Absolute Dominant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Sp	
1		That Are OBL, FACW, o	or FAC:1 (A)
2		Total Number of Domin	
3		Species Across All Stra	ta: <u>1</u> (B)
7.	= Total Cover	Percent of Dominant Sp	pecies or FAC:100 (A/B)
Sapling/Shrub Stratum (Plot size:)			
1		Prevalence Index worl	
2			Multiply by:
3			x 1 = x 2 =
4.       5.			x 3 =
J	0 = Total Cover		x 4 =
Herb Stratum (Plot size: 1m x 1m )		· ·	x 5 =
1. Hordeum marinum		Column Totals:	(A) (B)
2		Provolence Index	= B/A =
3		Hydrophytic Vegetation	
4		✓ Dominance Test is	
5 6		Prevalence Index is	
7			otations <sup>1</sup> (Provide supporting
8.		data in Remarks	s or on a separate sheet)
	75 = Total Cover	Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of bydric soil	and wetland hydrology must
1		be present, unless distu	
2	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum25 % Cov		Vegetation	a / No
Remarks:	AEI OI DIOIIC OLUŞT	Present? Yes	s No
	_		
Change in vegetation cover/ composition	1		

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confirm	n the absence o	f indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 4/1	93	5 yr 4/6	7	С	PL	Silty clay	
					· '			_
			-					
				_				
			-					
1Typo: C-Co	noontration D_Don	lotion DM	=Reduced Matrix, C	S_Covere	d or Coot	od Sond C	roino <sup>2</sup> l oco:	tion: PL=Pore Lining, M=Matrix.
			LRRs, unless othe			ed Sand G		or Problematic Hydric Soils <sup>3</sup> :
•		able to all			eu.)			•
Histosol	,		Sandy Red					ick (A9) (LRR C)
	pipedon (A2)		Stripped M	, ,	. (54)			ick (A10) ( <b>LRR B</b> )
Black His			Loamy Mud					d Vertic (F18)
	n Sulfide (A4)	<b>0</b> \	Loamy Gle		(F2)			ent Material (TF2)
	Layers (A5) (LRR	<b>(</b> )	Depleted M	, ,	(Fo)		Other (E	xplain in Remarks)
	ck (A9) ( <b>LRR D</b> )	- (044)	<u>✓</u> Redox Dar		. ,			
	Below Dark Surfac	e (A11)	Depleted D				31	Character tier and the constant
	irk Surface (A12)		Redox Dep		F0)			f hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Poo	is (F9)				ydrology must be present,
	leyed Matrix (S4)  ayer (if present):						uniess dis	turbed or problematic.
Type: <u>Ha</u>			<u></u>					
Depth (inc	thes): <u>2</u>						Hydric Soil P	resent? Yes <u>√</u> No
Remarks:								
Caa a a C	W/01h							
Same as S	OMOTO							
HYDROLO	GY							
Wetland Hyd	rology Indicators:							
Primary Indic	ators (minimum of c	ne require	d; check all that app	ly)			Second	ary Indicators (2 or more required)
Surface \	Water (A1)		Salt Crust	(B11)			Wa	ter Marks (B1) (Riverine)
High Wa	ter Table (A2)		Biotic Cru	st (B12)			· · · · · · · · · · · · · · · · · · ·	diment Deposits (B2) (Riverine)
Saturation			Aquatic In		s (B13)			ft Deposits (B3) ( <b>Riverine</b> )
	arks (B1) ( <b>Nonrive</b> r	ine)	Hydrogen					ainage Patterns (B10)
	it Deposits (B2) ( <b>No</b>				. ,	Living Po	· · · · · · · · · · · · · · · · · · ·	y-Season Water Table (C2)
					-	_		
	osits (B3) (Nonrive	rine)	Presence					ayfish Burrows (C8)
· · ·	Soil Cracks (B6)		Recent Iro			ed Soils (Ci		turation Visible on Aerial Imagery (C9)
· <del></del>	on Visible on Aerial	Imagery (B	· —					allow Aquitard (D3)
Water-St	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FA	C-Neutral Test (D5)
Field Observ	/ations:							
Surface Water	er Present? Y	'es	No <u>✓</u> Depth (in	iches):				
Water Table	Present? Y	'es	No <u>✓</u> Depth (in	iches):				
Saturation Pr			No ✓ Depth (in				and Hydrology	Present? Yes No
(includes cap							, , , , , ,	
Describe Rec	corded Data (stream	gauge, m	onitoring well, aerial	photos, pr	evious in	spections),	if available:	
Remarks:								
Pock-mar	ks							
I OCK-IIIdii	N.J							

Project/Site: Sloughhouse Solar Energy Project		City/County	: Sacramei	nto County	Sampling Date: 10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 9
Investigator(s): A, Sennett, A. Godinho	;	Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland		Local relief	(concave, c	convex, none): Concave	Slope (%):0
Subregion (LRR): C	Lat: 38.4	1742124		Long: -121.174705	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes				_	cation: n/a
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology sig					oresent? Yes No _ ✓
Are Vegetation, Soil, or Hydrology na				eeded, explain any answe	<del></del>
SUMMARY OF FINDINGS – Attach site map s					
SOMMANT OF FINDINGS - Attach site map's	nowing	Sampiin	g point it	Julions, transects	, important reatures, etc.
Hydrophytic Vegetation Present? Yes No		Is th	e Sampled	Area	
Hydric Soil Present? Yes <u>√</u> No		with	in a Wetlan	nd? Yes <u>√</u>	No
Wetland Hydrology Present? Yes   ✓ No  Remarks:					
Within SW-08. Grazed					
VEGETATION – Use scientific names of plants					
		Dominant Species?		Dominance Test work	
1				Number of Dominant Sp That Are OBL, FACW, of	
2.					, , ,
3				Total Number of Domin Species Across All Stra	
4				Percent of Dominant Sp	nacias
Carling/Obruh Chrahum /Dist sing.	0	= Total Co	ver		or FAC: <u>33.3</u> (A/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index wor	ksheet:
2					Multiply by:
3					x 1 = 2.5
4.					x 2 =5
5				FAC species 40	x 3 = <u>120</u>
	0	= Total Co	ver	FACU species 15	
Herb Stratum (Plot size: 1m x 1m )	30	V	FAC	UPL species <u>15</u>	
Hordeum marinum     Holocarpha virgate		Y	<u>FAC</u> UPL	Column Totals: 7!	5 (A) <u>262.5</u> (B)
3. Festuca perennis	10	N	FAC	Prevalence Index	= B/A =3.5
4. Bromus hordeaceus		Y	FACU	Hydrophytic Vegetation	
5. Alopecurus saccatus	2.5	N	OBL	Dominance Test is	>50%
6. Rumex dentatus	0.5	N	FACW	Prevalence Index is	
7				Morphological Adap	ptations <sup>1</sup> (Provide supporting
8					s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain)
Weed Was Orators (Blateins	75	= Total Co	ver	<u>▼</u> Problematic Hydrop	onytic vegetation (Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	l and wetland hydrology must
1 2				be present, unless distu	
		= Total Co	ver	Hydrophytic	
% Bare Ground in Herb Stratum 25 % Cover of		ust(		Vegetation	a / Na
	JI BIOLIC CI	ust		Present? Yes	s No
Remarks:					
Change in vegetation cover/ composition					

Depth	Matrix			ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-2	7.5 YR 3/2	90	5 yr 4/6	10	<u>C</u>	PL	Silty clay	
	-		-	_			<u> </u>	
	-			_			<u> </u>	
	-		-					
		_			· <del></del>			
1- 0.0							21	
			I=Reduced Matrix, C I LRRs, unless othe			ed Sand G		ation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histoso		cable to al	Sandy Red		cu.,			uck (A9) (LRR C)
	pipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
· <del></del>	istic (A3)		Loamy Mu		d (F1)			ed Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M		,			Explain in Remarks)
1 cm M	uck (A9) ( <b>LRR D</b> )		Redox Dar	k Surface	(F6)			
Deplete	d Below Dark Surfa	ce (A11)	Depleted D	ark Surfac	ce (F7)			
	ark Surface (A12)		Redox Dep		F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				nydrology must be present,
	Gleyed Matrix (S4)						unless dis	sturbed or problematic.
	Layer (if present):							
Type: H								v / v
• •	ches): 2						Hydric Soil I	Present? Yes <u>√</u> No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators	<b>::</b>						
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Second	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	t (B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Se	ediment Deposits (B2) (Riverine)
Saturati			Aquatic Ir	vertebrate	es (B13)		Dr	ift Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		Dr	ainage Patterns (B10)
Sedime	nt Deposits (B2) (Ne	onriverine	✓ Oxidized	Rhizosphe	res along	Living Ro	ots (C3) Dr	y-Season Water Table (C2)
Drift De	posits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C	4)	Cr	ayfish Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Iro	on Reducti	on in Tille	d Soils (C	6) Sa	aturation Visible on Aerial Imagery (C9)
Inundat	on Visible on Aerial	Imagery (E	37) Thin Mucl	k Surface (	(C7)		Sh	nallow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)		FA	AC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	Yes	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation F			No ✓ Depth (ir				land Hydrology	Present? Yes √ No
(includes ca	pillary fringe)							
Describe Re	corded Data (strear	m gauge, m	nonitoring well, aerial	photos, pr	evious ins	spections)	, if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project		City/County	<sub>/:</sub> <u>Sacrame</u>	nto County	Sampling Date: 10	)/27/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	10
Investigator(s): A. Sennet and A. Godinho		Section, To	wnship, Ra	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11	1
Landform (hillslope, terrace, etc.): flatlands		Local relie	f (concave,	convex, none): concave	Slope (	(%):0
Subregion (LRR):	Lat: 38.	47436035	}	Long: -121.1748463	Datum: \	WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation _ ✓ _, Soil, or Hydrologys				"Normal Circumstances" p		No ✓
Are Vegetation, Soil, or Hydrology n				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map					,	iros oto
Sommary of Findings - Attach site maps	Silowing	Sampin	ig point i	ocations, transects	, important reatt	ii es, etc.
Hydrophytic Vegetation Present? Yes ✓ Negroup Yes			ne Sampled	_		
Wetland Hydrology Present? Yes ✓ No Remarks:		With	nin a Wetlaı	nd? fes v	No	
Associated feature: SW-10. Lightly grazed.						
Associated reature. 5W 10. Lightly grazed.						
VEGETATION – Use scientific names of plan	te					
VEGETATION – Ose scientific flames of plan	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover			Number of Dominant Sp	pecies	
1				That Are OBL, FACW, o		(A)
2				Total Number of Domin		
3				Species Across All Stra	ta: <u>1</u>	(B)
4		= Total Co		Percent of Dominant Sp		(4 (5)
Sapling/Shrub Stratum (Plot size:)		_ = 10ta1 0t	) vei	That Are OBL, FACW, o	or FAC:	(A/B)
1				Prevalence Index wor		
2				Total % Cover of:		
3				OBL species		
4				FACW species		
5		= Total Co		FAC species		
Herb Stratum (Plot size: 1m x 1m)	0	= 10tal Ct	vei	UPL species		
1. Hordeum marinum	37.5	Y	FAC	Column Totals:		
2. Rumex dentatus	2.5	N	FACW			
3. Holocarpha virgata	10	N	NL		= B/A =	
4. Bromus hordeaceus	10	<u>N</u>	FACU	Hydrophytic Vegetation		
5. Elymus caput-medusae	10	N	NL	✓ Dominance Test is		
6				Prevalence Index is		
7					ptations <sup>1</sup> (Provide sup s or on a separate she	
8	70	T-1-1-0		Problematic Hydro		
Woody Vine Stratum (Plot size:)		= Total Co	over			
1.				<sup>1</sup> Indicators of hydric soi		gy must
2				be present, unless distu	Irbed or problematic.	
	0	= Total Co	over	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum30	of Biotic C	rust	)	Present? Yes	s No	_
Remarks:						
Change in veg cover and composition						

Depth	Matrix		Redo	ox Features	4	<del></del>	
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup> Loc		Remarks
0-3	7.5 YR 3/2	90	5 YR 4/6	10 (	<u> PL</u>	Silty clay	
-							
	<u>.</u> .						
<sup>1</sup> Type: C=C	Concentration, D=De	epletion, RM	l=Reduced Matrix, C	S=Covered o	r Coated Sand	d Grains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	icable to al	I LRRs, unless othe	rwise noted.	.)	Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Red			1 cm Mu	uck (A9) (LRR C)
	pipedon (A2)		Stripped M				uck (A10) (LRR B)
_	listic (A3)			cky Mineral (F			d Vertic (F18)
	en Sulfide (A4)	· C)		yed Matrix (F.	2)		rent Material (TF2)
	ed Layers (A5) ( <b>LRR</b> uck (A9) ( <b>LRR D</b> )	( )	Depleted M _ Redox Dar		:)	Other (E	Explain in Remarks)
	ed Below Dark Surfa	nce (A11)		ark Surface (Fo	,		
	ark Surface (A12)	(7 (7 (1 )		ressions (F8)		<sup>3</sup> Indicators o	f hydrophytic vegetation and
_	Mucky Mineral (S1)		Vernal Poo				ydrology must be present,
Sandy	Gleyed Matrix (S4)					unless dis	turbed or problematic.
Restrictive	Layer (if present):						
Type:							
Depth (in	nches):		<u></u>			Hydric Soil P	Present? Yes <u>√</u> No
Remarks:						1	
HYDROLO	OGY						
Wetland Hy	drology Indicators	S:					
Primary Indi	icators (minimum of	one require	ed; check all that app	ly)		Second	lary Indicators (2 or more required)
Surface	e Water (A1)		Salt Crust	: (B11)		Wa	ater Marks (B1) (Riverine)
High W	ater Table (A2)		Biotic Cru	st (B12)		Se	diment Deposits (B2) (Riverine)
Saturat	ion (A3)		<del></del>	vertebrates (	•	Dri	ft Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	erine)	Hydrogen	Sulfide Odor	(C1)	Dra	ainage Patterns (B10)
Sedime	ent Deposits (B2) (N	onriverine)				Roots (C3) Dry	y-Season Water Table (C2)
	eposits (B3) (Nonriv	erine)	Presence				ayfish Burrows (C8)
	e Soil Cracks (B6)			on Reduction	in Tilled Soils		turation Visible on Aerial Imagery (C9)
Inundat	tion Visible on Aeria			c Surface (C7	•	· · · · · · · · · · · · · · · · · · ·	allow Aquitard (D3)
	Stained Leaves (B9)	)	Other (Ex	plain in Rema	arks)	FA	C-Neutral Test (D5)
Water-S							
Water-S	rvations:		,				
Water-S	rvations: ter Present?	Yes	No <u>✓</u> Depth (ir				
Water-S	rvations: ter Present? e Present?	Yes Yes	No <u>✓</u> Depth (ir	iches):			
Water-S Field Obser Surface Wa Water Table Saturation F	rvations: ter Present? e Present? Present?	Yes Yes		iches):		Vetland Hydrology	Present? Yes ✓ No
Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rvations: ter Present? Present? pillary fringe)	Yes Yes Yes	No ✓ Depth (in No ✓ Depth (in	nches): nches):	v		Present? Yes No
Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rvations: ter Present? Present? pillary fringe)	Yes Yes Yes	No <u>✓</u> Depth (ir	nches): nches):	v		Present? Yes <u>√</u> No
Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	rvations: ter Present? Present? pillary fringe)	Yes Yes Yes	No ✓ Depth (in No ✓ Depth (in	nches): nches):	v		Present? Yes <u>√</u> No
Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rvations: ter Present? Present? pillary fringe)	Yes Yes Yes	No ✓ Depth (in No ✓ Depth (in	nches): nches):	v		Present? Yes <u>√</u> No
Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	rvations: ter Present? Present? pillary fringe)	Yes Yes Yes	No ✓ Depth (in No ✓ Depth (in	nches): nches):	v		Present? Yes <u>√</u> No
Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	rvations: ter Present? Present? pillary fringe)	Yes Yes Yes	No ✓ Depth (in No ✓ Depth (in	nches): nches):	v		Present? Yes <u>√</u> No
Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	rvations: ter Present? Present? pillary fringe)	Yes Yes Yes	No ✓ Depth (in No ✓ Depth (in	nches): nches):	v		Present? Yes <u>√</u> No

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacramer	nto County	Sampling Date: 10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:11
Investigator(s): A. Sennet and A. Godinho	;	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): flatlands		Local relief	(concave, o	convex, none): concave	Slope (%):0
Subregion (LRR):	Lat: 38.4	17404942		Long: -121.1745257	Datum: WGS84
					ation: n/a
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation ✓, Soil, or Hydrology sig					oresent? Yes No✓
Are Vegetation, Soil, or Hydrology na				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map s					
			g point it	ocations, transcets	, important reatures, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No		Is th	e Sampled	Area	
Hydric Soil Present? Yes   ✓ No  Wetland Hydrology Present? Yes  ✓ No		with	in a Wetlan	nd? Yes <u>√</u>	No
Remarks:					
Associated Feature: SW11					
ASSOCIATED FEATURE. SWII					
VEGETATION II I III					
VEGETATION – Use scientific names of plants		Descional	L. P t	I Barriana Tantana	ali a ad
		Dominant Species?		Dominance Test work  Number of Dominant Sp	
1				That Are OBL, FACW, of	
2				Total Number of Domina	ant
3				Species Across All Stra	
4				Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, o	or FAC:100 (A/B)
1				Prevalence Index work	ksheet:
2				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4					x 2 =
5					x 3 =
Herb Stratum (Plot size: 1m x 1m )		= Total Co	ver	· ·	x 4 =
1. Hordeum marinum	60	Υ	FAC		X 5 =
2. Festuca perennis	10	N	FAC	Column Totals.	(A) (B)
3. Holocarpha virgata	5	N	NL	Prevalence Index	= B/A =
4. Rumex dentatus	5	N	FACW	Hydrophytic Vegetation	
5				✓ Dominance Test is	
6				Prevalence Index is	
7					ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8				Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		= Total Co	ver		
1					l and wetland hydrology must
2				be present, unless distu	irbed or problematic.
		= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 20	of Biotic Cr	ust	)		s√ No
Remarks:				ı	

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the abse	nce of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0-2	7.5 Y/R 3/2	85	5 YR 5/8	15	С	M/PL	Silty clay	<b>y</b>
					-			
				_		· <del></del>	· <del></del>	<del></del>
				_			·	
	-			_				<del>-</del>
				_				
	-							
	oncentration, D=Dep					ed Sand G		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	cable to all	LRRs, unless othe	rwise no	ted.)		Indicat	tors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 0	cm Muck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)								cm Muck (A10) (LRR B)
	istic (A3)		Loamy Mud		al (F1)			educed Vertic (F18)
	en Sulfide (A4)		Loamy Gle					ed Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M	latrix (F3)				her (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar					
Deplete	d Below Dark Surfac	ce (A11)	Depleted D	ark Surfa	ce (F7)			
Thick D	ark Surface (A12)		✓ Redox Dep	ressions	(F8)		<sup>3</sup> Indica	tors of hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		Vernal Poo	ls (F9)			wetla	and hydrology must be present,
Sandy C	Gleyed Matrix (S4)						unle	ss disturbed or problematic.
	Layer (if present):							
Type: ha	rdpan							
Depth (in							Hydric	Soil Present? Yes √ No
. ,	onoo).						11,741.10	
Remarks:								
	-OV							
HYDROLO								
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one require	d; check all that app	ly)			S	econdary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)				_ Water Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)				Sediment Deposits (B2) (Riverine)
Saturati	` '		Aquatic In		es (B13)			_ Drift Deposits (B3) (Riverine)
	farks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen					_ Drainage Patterns (B10)
						Livina Bo		
	nt Deposits (B2) (No				_	-		_ Dry-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					_ Crayfish Burrows (C8)
	Soil Cracks (B6)		Recent Iro			ed Soils (C		_ Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B	7) Thin Mucl	s Surface	(C7)		· · · · · · · · · · · · · · · · · · ·	_ Shallow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (Ex	plain in R	emarks)		_	_ FAC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	⁄es	No <u>✓</u> Depth (in	ches):				
Water Table			No <u>✓</u> Depth (ir					
							اممط لليطاء	ology Present? Yes ✓ No
Saturation P (includes cap		res	No <u>✓</u> Depth (ir	icnes):		_   wet	iana nyara	blogy Present? Tes No
	corded Data (strean	n gauge, mo	onitoring well, aerial	photos, p	revious ins	spections)	. if available	):
		. 99-,		p, p			,	
Remarks:								
1								

Project/Site: Sloughhouse Solar Energy Project	(	City/Coun	<sub>ity:</sub> Sacrame	nto County	_ Sampling Date:	10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point:	12
Investigator(s): A. Sennet and A. Godinho		Section, 7	Гownship, Ra	nge: Township 7N / R	ange 7E / Sectio	n 11
Landform (hillslope, terrace, etc.): flatlands		Local reli	ef (concave,	convex, none): none	Slo	ope (%):0
Subregion (LRR): Galt clay, 2 - 5% slopes						
				NWI classifi		
Are climatic / hydrologic conditions on the site typical for th						
Are Vegetation, Soil, or Hydrology				'Normal Circumstances"		✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site map						eatures, etc.
-				· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · ·
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes ✓			the Sampled			
Wetland Hydrology Present? Yes   ✓ N		wi	thin a Wetlaı	nd? Yes	No <u>√</u>	_
Remarks:						
Associated feature: SW11a						
VEGETATION – Use scientific names of plar	nts					
Table 1 and	Absolute	Domina	nt Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size:)	% Cover		? Status	Number of Dominant S	Species	_
1				That Are OBL, FACW,	or FAC:	0 (A)
2				Total Number of Domi		4
3				Species Across All Str	ata:	1 (B)
4	0			Percent of Dominant S	Species	0 (1.75)
Sapling/Shrub Stratum (Plot size:)		= Total C	ovei	That Are OBL, FACW,	or FAC:	<u>0</u> (A/B)
1				Prevalence Index wo		
2				Total % Cover of:		
3				OBL species		
4				FACW species		
5	_			FAC species		
Herb Stratum (Plot size:1m x 1m)	0	= Total (	Jover	UPL species		
1. Bromus hordeaceus	70	Υ	FACU	Column Totals:		
2. Holocarpha virgata	15	N	UPL			
3. Elymus caput-medusae	15	N	UPL		x = B/A =	
4				Hydrophytic Vegetat		
5				Dominance Test i		
6				Prevalence Index Morphological Ad:		a aupporting
7		-		Morphological Ada data in Remark	ks or on a separate	e sheet)
8		= Total 0	Cover	Problematic Hydro	ophytic Vegetation	<sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	100	= Total C	ovei			
1				<sup>1</sup> Indicators of hydric so		
2				be present, unless dis	turbed or problems	atic.
	0	= Total C	Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum	er of Biotic C	rust	0		es No _	✓
Remarks:				1		

Depth	Matrix		pth needed to docu Redo	ox Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 3/2	98	5 YR 5/8	2	С	PL	Silty clay	
	-						. <u> </u>	
	-		-	_				
					· <del></del>	· <del></del>		
<sup>1</sup> Type: C=C	oncentration, D=De	epletion, RM	l=Reduced Matrix, C	S=Covere	d or Coate	ed Sand G		tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	icable to al	I LRRs, unless othe	rwise not	ed.)		Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Red				1 cm Mu	uck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M					uck (A10) (LRR B)
	istic (A3)		Loamy Mud					d Vertic (F18)
	en Sulfide (A4)	. 0)	Loamy Gle		(F2)			rent Material (TF2)
	d Layers (A5) (LRR	(C)	Depleted M		(E0)		Other (E	Explain in Remarks)
	uck (A9) ( <b>LRR D</b> ) d Below Dark Surfa	oco (A11)	Redox Dari		. ,			
	ark Surface (A12)	ice (ATT)	Redox Dep				<sup>3</sup> Indicators o	f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		. 0)			ydrology must be present,
	Gleyed Matrix (S4)			( )				sturbed or problematic.
Restrictive	Layer (if present):							
Type: ha	rdpan							
Depth (in	ches): 2						Hydric Soil P	Present? Yes No✓
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators	s:						
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Second	lary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	t (B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Se	diment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic In	vertebrate	es (B13)		Dri	ft Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	erine)	Hydrogen	Sulfide O	dor (C1)		Dra	ainage Patterns (B10)
Sedime	nt Deposits (B2) (N	onriverine)	✓ Oxidized	Rhizosphe	res along	Living Ro	ots (C3) Dry	y-Season Water Table (C2)
Drift De	posits (B3) (Nonriv	erine)	Presence	of Reduce	ed Iron (C	4)	Cra	ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	on Reducti	on in Tille	d Soils (C	6) Sat	turation Visible on Aerial Imagery (C9)
Inundat	on Visible on Aeria	l Imagery (E	37) Thin Mucl	k Surface (	(C7)		Sha	allow Aquitard (D3)
Water-S	Stained Leaves (B9)	)	Other (Ex	plain in Re	emarks)		FA	C-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	ter Present?	Yes	No <u>✓</u> Depth (in	nches):				
Water Table	Present?	Yes	No <u>√</u> Depth (in	nches):				
Saturation P	resent?	Yes	No <u>✓</u> Depth (in	nches):		Wet	land Hydrology	Present? Yes No
	pillary fringe)							
Describe Re	corded Data (stream	m gauge, m	nonitoring well, aerial	photos, pr	evious ins	spections)	, if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date: 10/27/2020				
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 13
ovestigator(s): A, Sennett and A. Godinho Section, Township, Range: TBD					
Landform (hillslope, terrace, etc.): Flatlands	Local relief (concave, convex, none): concave Slope (%): 1				
Subregion (LRR): C	Lat: 38.4	7410807		Long: -121.1732138	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes				=	cation: n/a
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturbed?					
Are Vegetation, Soil, or Hydrology na				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
SUMMART OF FINDINGS – Attach site map s	nowing	Sampiin	g point it	——————————————————————————————————————	, important leatures, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No		ls th	e Sampled	Area	
Hydric Soil Present? Yes No			in a Wetlan		No
Wetland Hydrology Present? Yes ✓ No	<u> </u>				
Remarks:					
Located within Margin of VP-01					
VEGETATION – Use scientific names of plant					
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Test work	
1				Number of Dominant Sp That Are OBL, FACW, of	
2					
3				Total Number of Domini Species Across All Stra	
4				Percent of Dominant Sp	nacias
Cooling/Charth Ctrotum / Diot circu	0	= Total Co	ver	That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index worl	ksheet:
2					Multiply by:
3					x 1 =
4.					x 2 =
5				FAC species	x 3 =
		= Total Co	ver	FACU species	x 4 =
Herb Stratum (Plot size: 1m x 1m )	40	Υ	FAC		x 5 =
Hordeum marinum     Festuca perennis		N	FAC FAC	Column Totals:	(A) (B)
Festuca perennis     Holocarpha virgate	15	N	UPL	Prevalence Index	= B/A =
4. Erigeron sp	15	N	UPL	Hydrophytic Vegetation	
5. Rumex dentatus	2.5	N	FACW	✓ Dominance Test is	>50%
6. Alopecurus saccatus	2.5	N	OBL	Prevalence Index is	
7. Bromus hordeaceus	7.5	N	FACU	Morphological Adap	ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8					phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: )	90	= Total Co	ver	1 Toblematic Hydron	Strytto vegetation (Explain)
1				<sup>1</sup> Indicators of hydric soi	l and wetland hydrology must
2.				be present, unless distu	
		= Total Co	ver	Hydrophytic	
% Bare Ground in Herb Stratum 10 % Cover of Biotic Crust 0 Present? Yes ✓ No					
Remarks:					
Lightly grazed					
Lightly grazed					

	Features	<u></u>	
(inches) Color (moist) % Color (moist)	% Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-4 7.5 YR 3/2 100		<u>C</u>	
		<u> </u>	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=			tion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherw			or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Sandy Redox			uck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matr			uck (A10) (LRR B)
Black Histic (A3) Loamy Mucky			d Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyer Stratified Layers (A5) (LRR C) _✓ Depleted Mat			ent Material (TF2) Explain in Remarks)
Stratified Layers (A5) (LRR C) Depleted Mat 1 cm Muck (A9) (LRR D) Redox Dark S		Other (E	.Apiaiii iii Neillaiks)
	k Surface (F7)		
Thick Dark Surface (A12)  Redox Depres		<sup>3</sup> Indicators o	f hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools			ydrology must be present,
Sandy Gleyed Matrix (S4)	( - /		turbed or problematic.
Restrictive Layer (if present):			·
Type: Hardpan			
Type: Hardpan  Depth (inches): 4		Hydric Soil F	Present? Yes ✓ No
Depth (inches): 4		Hydric Soil F	Present? Yes <u>√</u> No
Depth (inches): 4  Remarks:		Hydric Soil F	Present? Yes <u>√</u> No
Depth (inches): 4  Remarks:  YDROLOGY		Hydric Soil F	Present? Yes <u>√</u> No
Depth (inches): 4  Remarks:  YDROLOGY  Wetland Hydrology Indicators:			
Depth (inches): 4  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)	211)	Second	lary Indicators (2 or more required)
Depth (inches): 4  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E	,	Second	lary Indicators (2 or more required) tter Marks (B1) ( <b>Riverine</b> )
Depth (inches): 4  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E High Water Table (A2) Biotic Crust	(B12)	<u>Second</u> Wa Se	lary Indicators (2 or more required) tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
Depth (inches): 4  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E  High Water Table (A2) Biotic Crust  Saturation (A3) Aquatic Inve	(B12) rtebrates (B13)	<u>Second</u> Wa Se Dri	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine)
Depth (inches): 4  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E  High Water Table (A2) Biotic Crust  Saturation (A3) Aquatic Inve  Water Marks (B1) (Nonriverine) Hydrogen Sa	(B12) rtebrates (B13) ulfide Odor (C1)	Second — Wa — Sea — Dri — Dra	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Interior (B10)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B High Water Table (A2) Biotic Crust Saturation (A3) Aquatic Inve Water Marks (B1) (Nonriverine) Hydrogen St Sediment Deposits (B2) (Nonriverine) Oxidized Rh	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R	Second Wa Se Dri Dra Roots (C3) Dry	dary Indicators (2 or more required)  Inter Marks (B1) (Riverine)  Idiment Deposits (B2) (Riverine)  Ift Deposits (B3) (Riverine)  Idinage Patterns (B10)  Interval of the second state of
Depth (inches): 4  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E High Water Table (A2) Biotic Crust  Saturation (A3) Aquatic Inve  Water Marks (B1) (Nonriverine) Hydrogen St  Sediment Deposits (B2) (Nonriverine) Oxidized Rh  Drift Deposits (B3) (Nonriverine) Presence of	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4)	Second Wa See Dri Dra Roots (C3) Cra	lary Indicators (2 or more required) Iter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Ininage Patterns (B10) Inv-Season Water Table (C2) Inayfish Burrows (C8)
Depth (inches): 4  Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E  High Water Table (A2) Biotic Crust  Saturation (A3) Aquatic Inve  Water Marks (B1) (Nonriverine) Hydrogen Si  Sediment Deposits (B2) (Nonriverine) Oxidized Rh  Drift Deposits (B3) (Nonriverine) Presence of  ✓ Surface Soil Cracks (B6) Recent Iron	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils (	Second	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Ininage Patterns (B10) In-Season Water Table (C2) Ininage Patterns (C8) Ituration Visible on Aerial Imagery (C8)
Primary Indicators (Minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)  Thin Muck S	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( surface (C7)	Second	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Ininage Patterns (B10) Ininage Patterns (B10) Ininage Patterns (C2) Ininage Patterns (C8) Ituration Visible on Aerial Imagery (C8) Ituration Visible (C3)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Noriverine  Presence of  Water-Stained Leaves (B9)  Other (Expla	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils (	Second	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Ininage Patterns (B10) In-Season Water Table (C2) Ininage Patterns (C8) Ituration Visible on Aerial Imagery (C8)
Depth (inches): 4  Remarks:    YDROLOGY   Wetland Hydrology Indicators:   Primary Indicators (minimum of one required; check all that apply)   Surface Water (A1)   Salt Crust (Balt (Bal	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( surface (C7) ain in Remarks)	Second	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Ininage Patterns (B10) Ininage Patterns (B10) Ininage Patterns (C2) Ininage Patterns (C8) Ituration Visible on Aerial Imagery (C8) Ituration Visible (C3)
Depth (inches): 4  Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E High Water Table (A2) Biotic Crust Saturation (A3) Aquatic Inve Water Marks (B1) (Nonriverine) Hydrogen St Sediment Deposits (B2) (Nonriverine) Oxidized Rh Drift Deposits (B3) (Nonriverine) Presence of ✓ Surface Soil Cracks (B6) Recent Iron Inundation Visible on Aerial Imagery (B7) Thin Muck S Water-Stained Leaves (B9) Other (Expla	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( iurface (C7) ain in Remarks)  es):	Second	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Ininage Patterns (B10) Ininage Patterns (B10) Ininage Patterns (C2) Ininage Patterns (C8) Ituration Visible on Aerial Imagery (C8) Ituration Visible (C3)
Depth (inches): 4  Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E High Water Table (A2) Biotic Crust  Saturation (A3) Aquatic Inve  Water Marks (B1) (Nonriverine) Hydrogen St  Sediment Deposits (B2) (Nonriverine) Oxidized Rh  Drift Deposits (B3) (Nonriverine) Presence of  ✓ Surface Soil Cracks (B6) Recent Iron  Inundation Visible on Aerial Imagery (B7) Thin Muck S  Water-Stained Leaves (B9) Other (Explain Field Observations:  Surface Water Present? Yes No ✓ Depth (inchem Water Table Present? Yes No ✓ Depth (inchem Depts (Inchem Depts) (In	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( furface (C7) ain in Remarks)  es): es):	Second	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) Idinage Patterns (C8) Idinagery (C8) Idinagery (C8) Idinagery (C9)
Depth (inches): 4  Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E High Water Table (A2) Biotic Crust  Saturation (A3) Aquatic Inve  Water Marks (B1) (Nonriverine) Hydrogen Si  Sediment Deposits (B2) (Nonriverine) Oxidized Rh  Drift Deposits (B3) (Nonriverine) Presence of  ✓ Surface Soil Cracks (B6) Recent Iron  Inundation Visible on Aerial Imagery (B7) Thin Muck Si  Water-Stained Leaves (B9) Other (Explain Field Observations:  Surface Water Present? Yes No ✓ Depth (inches Saturation Present? Yes No ✓ Depth (inches	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( furface (C7) ain in Remarks)  es): es):	Second	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Ininage Patterns (B10) Ininage Patterns (B10) Ininage Patterns (C2) Ininage Patterns (C8) Ituration Visible on Aerial Imagery (C8) Ituration Visible (C3)
Depth (inches): 4  Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (E High Water Table (A2) Biotic Crust  Saturation (A3) Aquatic Inve  Water Marks (B1) (Nonriverine) Dxidized Rh  Drift Deposits (B2) (Nonriverine) Oxidized Rh  Drift Deposits (B3) (Nonriverine) Presence of  ✓ Surface Soil Cracks (B6) Recent Iron  Inundation Visible on Aerial Imagery (B7) Thin Muck S  Water-Stained Leaves (B9) Other (Explain Field Observations:  Surface Water Present? Yes No✓ Depth (inches Saturation Present? Yes No✓ Depth (inches Saturation Present? Yes No✓ Depth (inches capillary fringe)	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( furface (C7) ain in Remarks)  es): es):	Second  Wa Se Dri Dra Roots (C3) Dry Cra (C6) Sa Dry FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) Idinage Patterns (C8) Idinagery (C8) Idinagery (C8) Idinagery (C9)
Depth (inches): 4  Remarks:    IYDROLOGY	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( furface (C7) ain in Remarks)  es): es):	Second  Wa Se Dri Dra Roots (C3) Dry Cra (C6) Sa Dry FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) Idinage Patterns (C8) Idinagery (C8) Idinagery (C8) Idinagery (C9)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No _ ✓ Depth (inch Mater Table Present?  Yes No _ ✓ Depth (inch Mater Table Present?  No _ Depth (inch Mater Table Present?  No _ Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (i	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( furface (C7) ain in Remarks)  es): es):	Second  Wa Se Dri Dra Roots (C3) Dry Cra (C6) Sa Dry FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) Idinage Patterns (C8) Idinagery (C8) Idinagery (C8) Idinagery (C9)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (Baltimeter)  High Water Table (A2) Biotic Crust  Saturation (A3) Aquatic Inve  Sediment Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Presence of  Surface Soil Cracks (B6) Recent Iron  Inundation Visible on Aerial Imagery (B7) Thin Muck S  Water Table Present? Yes No ✓ Depth (inch Water Table Present? Yes No ✓ Depth (inch (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial ph	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( furface (C7) ain in Remarks)  es): es):	Second  Wa Se Dri Dra Roots (C3) Dry Cra (C6) Sa Dry FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) Idinage Patterns (C8) Idinagery (C8) Idinagery (C8) Idinagery (C9)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No _ ✓ Depth (inch Mater Table Present?  Yes No _ ✓ Depth (inch Mater Table Present?  No _ Depth (inch Mater Table Present?  No _ Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (inch Mater Table Present?  Yes No _ Mater Depth (i	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( furface (C7) ain in Remarks)  es): es):	Second  Wa Se Dri Dra Roots (C3) Dry Cra (C6) Sa Dry FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) Idinage Patterns (C8) Idinagery (C8) Idinagery (C8) Idinagery (C9)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (Biotic Crust (Biotic Crust (B1) (Nonriverine) Hydrogen Staturation (A3) Aquatic Inverse (B2) (Nonriverine) Oxidized Rh  Drift Deposits (B3) (Nonriverine) Presence of Surface Soil Cracks (B6) Recent Iron Inundation Visible on Aerial Imagery (B7) Thin Muck Staturation Present? Yes No ✓ Depth (inch (Baturation Present? Yes No ✓ Depth (inch (Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	(B12) rtebrates (B13) ulfide Odor (C1) izospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ( furface (C7) ain in Remarks)  es): es):	Second  Wa Se Dri Dra Roots (C3) Dry Cra (C6) Sa Dry FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) Idinage Patterns (C8) Idinagery (C8) Idinagery (C8) Idinagery (C9)

Project/Site: Sloughhouse Solar Energy Project	(	City/Coun	<sub>ty:</sub> <u>Sacrame</u>	nto County	Sampling Date: _	10/28/2020	
Applicant/Owner: D.E. Shaw Renewable Investments	nt/Owner: D.E. Shaw Renewable Investments State: <u>CA</u> Sampling Point: <u>14</u>						
Investigator(s): L. Burris, A. Sennet, A. Godinho	:	Section, 1	Township, Ra	nge: Township 7N / Ra	ange 7E / Section	11	
Landform (hillslope, terrace, etc.): bottomland		Local reli	ef (concave,	convex, none): concave	Slop	oe (%):0	
Subregion (LRR):	Lat: 38.4	4740117	9	Long: -121.1742674	Datur	n: WGS84	
Soil Map Unit Name: Galt Clay, 2-5% slopes				NWI classific			
Are climatic / hydrologic conditions on the site typical for thi							
Are Vegetation, Soil, or Hydrologys				"Normal Circumstances"		No <b>√</b>	
Are Vegetation, Soil, or Hydrology				eeded, explain any answe			
						oturos oto	
SUMMARY OF FINDINGS – Attach site map	snowing	Sampii	ng point i	ocations, transects	s, important le	atures, etc.	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes ✓ N  Yes ✓ N  Remarks:	lo		the Sampled thin a Wetlar		No		
Associated feature: VP-10. Small depression	on in gras	ssland,	heavily gr	azed			
VEGETATION Has a simple for the second state of the second state o	4 -						
VEGETATION – Use scientific names of plan	Absolute	Domino	nt Indicator	Dominance Test work	rahaati		
Tree Stratum (Plot size:)			? Status	Number of Dominant S			
1				That Are OBL, FACW,		(A)	
2				Total Number of Domir	nant		
3				Species Across All Stra	ata: <u>2</u>	(B)	
4				Percent of Dominant S			
Sapling/Shrub Stratum (Plot size:)		= rotarc	over	That Are OBL, FACW,	or FAC: 10	0 (A/B)	
1				Prevalence Index wor	rksheet:		
2				Total % Cover of:	Multiply	/ by:	
3				OBL species			
4				FACW species			
5				FACIL appeies			
Herb Stratum (Plot size: 5m x 5m )		= Total C	Cover	FACU species UPL species			
1. Hordeum marinum	30	ΥΥ	FAC	Column Totals:			
2. Festuca perennis	25	Υ	FAC				
3. Rumex pulcher	_ 5	N	FAC		c = B/A =		
4				Hydrophytic Vegetati			
5	_			✓ Dominance Test is			
6				Prevalence Index i			
7					aptations <sup>1</sup> (Provide is or on a separate		
8		Tatal		Problematic Hydro	phytic Vegetation <sup>1</sup>	(Explain)	
Woody Vine Stratum (Plot size:)		= Total C	Jover				
1 2				<sup>1</sup> Indicators of hydric so be present, unless dist			
			Cover	Hydrophytic			
% Bare Ground in Herb Stratum40	r of Biotic Cı	•		Vegetation Present? Ye	es <u>√</u> No		
Remarks:	. 0. 5.0.00 01			1000			

		to the dep	oth needed to docu	ment the		or confirr	n the absence of	r indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-2	7.5 Y/R 3/3	95	5 YR 5/8	5	С	PL	clay/silt				
				_	_						
	_				_	·					
						. <u></u>					
						· ——					
<sup>1</sup> Type: C=C	oncentration. D=De	pletion. RM	=Reduced Matrix, C	S=Covere	ed or Coate	ed Sand G	rains. <sup>2</sup> Locat	tion: PL=Pore Lining, M=Matrix.			
			I LRRs, unless other					or Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Sandy Red	lox (S5)			1 cm Mu	ck (A9) ( <b>LRR C</b> )			
Histic E	pipedon (A2)		Stripped M	. ,				ck (A10) ( <b>LRR B</b> )			
Black H	istic (A3)		Loamy Mu					Vertic (F18)			
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matri	x (F2)			ent Material (TF2)			
	d Layers (A5) (LRR	C)	Depleted N				Other (E	xplain in Remarks)			
	uck (A9) ( <b>LRR D</b> )		Redox Dar		, ,						
	d Below Dark Surfac	ce (A11)	Depleted D				31	la colora la cità con actatione a sed			
	ark Surface (A12)  Mucky Mineral (S1)		✓ Redox Dep Vernal Pool		(F8)			hydrophytic vegetation and			
	Gleyed Matrix (S4)		vernar Foc	)IS (I-9)			wetland hydrology must be present, unless disturbed or problematic.				
	Layer (if present):						1				
Type: ha											
Depth (in	ches): 2						Hydric Soil P	resent? Yes No			
Remarks:	,										
hardpan											
HYDROLO	GY										
Wetland Hy	drology Indicators	:									
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Seconda	ary Indicators (2 or more required)			
Surface	Water (A1)		Salt Crus	t (B11)			Wat	ter Marks (B1) (Riverine)			
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sec	liment Deposits (B2) (Riverine)			
Saturati	on (A3)		Aquatic Ir	nvertebrat	es (B13)		Drif	t Deposits (B3) (Riverine)			
Water M	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide C	Odor (C1)		Dra	inage Patterns (B10)			
Sedime	nt Deposits (B2) (No	onriverine)	✓ Oxidized	Rhizosph	eres along	Living Ro	ots (C3) Dry	-Season Water Table (C2)			
Drift De	posits (B3) ( <b>Nonrive</b>	erine)	Presence	of Reduc	ed Iron (C	4)	Cra	yfish Burrows (C8)			
Surface	Soil Cracks (B6)		Recent Ire	on Reduct	tion in Tille	ed Soils (Co	6) Sat	uration Visible on Aerial Imagery (C9)			
Inundati	ion Visible on Aerial	Imagery (E	37) Thin Muc	k Surface	(C7)		Sha	allow Aquitard (D3)			
Water-S	Stained Leaves (B9)		Other (Ex	plain in R	emarks)		FAC	C-Neutral Test (D5)			
Field Obser	vations:										
Surface Wat	ter Present?	Yes	No <u>✓</u> Depth (ir	nches):							
Water Table	Present?	Yes	No <u>✓</u> Depth (ir	nches):							
Saturation P	resent?	Yes	No ✓ Depth (ir	nches):		Wet	land Hydrology I	Present? Yes <u>√</u> No			
	pillary fringe)	n dallao m	onitoring well, aerial	nhotos n	rovious in	cooctions)	if available:				
Describe Ne	colued Data (Stream	ii gauge, iii	oriitoring well, aerial	priotos, p	revious iri	speciions),	ii avaliable.				
Domorlos											
Remarks:											

Project/Site: Sloughhouse Solar Energy Project		City/Co	unty: Sacrame	ento County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	15
Investigator(s): L. Burris, A. Sennet, A. Godinho		Section	ı, Township, Ra	ange: <u>Township 7N / Ra</u>	ange 7E / Sectior	า 11
Landform (hillslope, terrace, etc.): flatland		Local r	elief (concave,	convex, none): none	Slo	pe (%):0
Subregion (LRR):	Lat: 38.4	47403	752	Long: -121.1742239	Datu	m: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for tl						
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"		No ✓
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map	Silowing	Samp	Jilly politi	iocations, transects	s, important re	atures, etc.
Hydrophytic Vegetation Present? Yes			Is the Sample	d Area		
Hydric Soil Present? Yes		١	within a Wetla	nd? Yes	No <u>√</u>	_
Wetland Hydrology Present? Yes✓	No					
Associated feature: VP-10. Heavy grazed.						
VEGETATION – Use scientific names of pla		D	and to Paster	I Barriera Tarriera	la la a d	
Tree Stratum (Plot size:)	Absolute % Cover		nant Indicator es? Status	Number of Dominant S		
1				That Are OBL, FACW,		(A)
2				Total Number of Domir	nant	
3				Species Across All Stra		(B)
4				Percent of Dominant S	species	
Sapling/Shrub Stratum (Plot size:)		= Tota	l Cover	That Are OBL, FACW,	or FAC: 0	(A/B)
1				Prevalence Index wo	rksheet:	
2.				Total % Cover of:	Multiph	y by:
3				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species		
Herb Stratum (Plot size: 5m x 5m		= Tota	l Cover	FACU species		
1. Holocarpha virgata	10	N	NL	UPL species		
2. Hordeum murinum	20	Υ	FACU	Column Totals:	(A)	(D)
3. Bromus hordeaceus	20	Υ	FACU	Prevalence Index	x = B/A =	
4. Festuca perennis	10	N	FAC	Hydrophytic Vegetati	on Indicators:	
5. Cynodon dactylon	20	Y	FACU	Dominance Test is		
6				Prevalence Index		
7					aptations <sup>1</sup> (Provide as or on a separate	
8	90			Problematic Hydro	·	,
Woody Vine Stratum (Plot size:)		_= 10ta	ll Cover			
1				<sup>1</sup> Indicators of hydric so		
2				be present, unless dist	urbed or problemat	tic.
		= Tota	l Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 10 % Cov	er of Biotic C	rust			es No	✓
Remarks:				1		

Depth	Matrix		Redo	ox Features			
(inches)	Color (moist)	%	Color (moist)	<u>% Tyr</u>	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 2.5/2	97	5 YR 5/8	3 <u>C</u>	PL	silty clay	
							_
	-						
	· ·						
						. <u> </u>	
¹Type: C=C	Concentration, D=De	nletion, RM	I=Reduced Matrix, C	S=Covered or C	oated Sand G	Grains <sup>2</sup> Locatio	on: PL=Pore Lining, M=Matrix.
			I LRRs, unless othe		oatoa oana o		r Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Sandy Rec	lox (S5)		1 cm Muc	k (A9) ( <b>LRR C</b> )
_	pipedon (A2)		Stripped M				k (A10) ( <b>LRR B</b> )
Black H	listic (A3)		Loamy Mu	cky Mineral (F1)		Reduced	Vertic (F18)
	en Sulfide (A4)		Loamy Gle	yed Matrix (F2)		Red Pare	nt Material (TF2)
	ed Layers (A5) (LRR	<b>C</b> )	Depleted N			Other (Ex	plain in Remarks)
	uck (A9) ( <b>LRR D</b> )			k Surface (F6)			
	ed Below Dark Surfa	ce (A11)		ark Surface (F7	")	3	
	Park Surface (A12)			ressions (F8)			hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	ois (F9)		•	drology must be present, rbed or problematic.
	Layer (if present):					uniess dista	inded of problematic.
Type: cla							
,	nches): 2					Hydric Soil Pro	esent? Yes No _✓_
	icries). <u>2</u>					nyuric 30ii Pi	esent: res Nov
Remarks:							
HYDROLO	OGY						
Wetland Hy	drology Indicators	s:					
Primary Indi	icators (minimum of	one require	ed; check all that app	ly)		<u>Seconda</u>	ry Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	t (B11)		Wate	er Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)		Sedi	ment Deposits (B2) (Riverine)
Saturati	ion (A3)		Aquatic Ir	vertebrates (B1	3)	Drift	Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	erine)	Hydrogen	Sulfide Odor (C	21)	Drair	nage Patterns (B10)
Sedime	ent Deposits (B2) (N	onriverine)	✓ Oxidized	Rhizospheres al	ong Living Ro	ots (C3) Dry-	Season Water Table (C2)
Drift De	posits (B3) (Nonriv	erine)	Presence	of Reduced Iron	n (C4)	Cray	fish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Ire	on Reduction in	Tilled Soils (C	6) Satu	ration Visible on Aerial Imagery (C9)
Inundat	tion Visible on Aeria	l Imagery (E	B7) Thin Muc	k Surface (C7)		Shal	low Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (Ex	plain in Remark	s)	FAC	-Neutral Test (D5)
Field Obser	rvations:						
	. 5 .0	Yes	No Depth (ir	nches):			
Surface Wat	ter Present?						
			No Depth (ir	icnes):			
Water Table	e Present?	Yes	No Depth (in			land Hydrology P	resent? Yes √ No
Water Table Saturation F (includes ca	e Present? Present? apillary fringe)	Yes Yes	No Depth (in	nches):	Wet		resent? Yes ✓ No
Water Table Saturation F (includes ca	e Present? Present? apillary fringe)	Yes Yes		nches):	Wet		resent? Yes <u>√</u> No
Water Table Saturation F (includes ca	e Present? Present? apillary fringe)	Yes Yes	No Depth (in	nches):	Wet		resent? Yes <u>√</u> No
Water Table Saturation F (includes ca	e Present? Present? apillary fringe)	Yes Yes	No Depth (in	nches):	Wet		resent? Yes <u>√</u> No
Water Table Saturation F (includes ca Describe Re	e Present? Present? apillary fringe)	Yes Yes	No Depth (in	nches):	Wet		resent? Yes <u>√</u> No
Water Table Saturation F (includes ca Describe Re	e Present? Present? apillary fringe)	Yes Yes	No Depth (in	nches):	Wet		resent? Yes <u>√</u> No
Water Table Saturation F (includes ca Describe Re	e Present? Present? apillary fringe)	Yes Yes	No Depth (in	nches):	Wet		resent? Yes <u>√</u> No
Water Table Saturation F (includes ca Describe Re	e Present? Present? apillary fringe)	Yes Yes	No Depth (in	nches):	Wet		resent? Yes <u>√</u> No

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacrame	nto County	Sampling Date: 10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 16
				nge: Township 7N / Ra	
Landform (hillslope, terrace, etc.): flatlands				-	
Subregion (LRR):					
					ation: n/a
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation _ ✓ , Soil, or Hydrology si					oresent? Yes No _✓
Are Vegetation, Soil, or Hydrology na				eeded, explain any answei	
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point le	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓ No  Yes  ✓ No  Remarks:			ie Sampled iin a Wetlar		No
Associated feature: SW-12. Small depression	n in gra	ssland. I	Heavy gra	azing	
<b>VEGETATION</b> – Use scientific names of plant	s.				
Trace Chrotum (Diet sings		Dominant		Dominance Test work	sheet:
Tree Stratum (Plot size:)  1		Species?		Number of Dominant Sp That Are OBL, FACW, of	
2					
3				Total Number of Domina Species Across All Stra	
4					
		= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worl	
1					Multiply by:
3					x 1 =
4					x 2 =
5					x 3 =
		= Total Co		FACU species	x 4 =
Herb Stratum (Plot size: 5m x 5m				UPL species	x 5 =
1. Festuca perennis	30	Y	FAC	Column Totals:	(A) (B)
2. Hordeum marinum 3. Rumex pulcher	<u>30</u> 5	Y N	FAC FAC	Prevalence Index	= B/A =
4. Rumex crispus		N	FAC	Hydrophytic Vegetation	
5			TAC	✓ Dominance Test is	
6.				Prevalence Index is	
7				Morphological Adap	ptations <sup>1</sup> (Provide supporting
8.					s or on a separate sheet)
	=-	= Total Co	ver	Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)				No disease of budgie coll	
1				be present, unless distu	I and wetland hydrology must urbed or problematic.
2		= Total Co		Hydrophytic	
% Bare Ground in Herb Stratum 10 % Cover		rust		Vegetation	s∕ No
Remarks:					
Thatch layer					

	cription: (Describe	to the dep				or confirr	n the absen	ce of indicators.)		
Depth (inches)				ox Feature %	sType <sup>1</sup>	Loc <sup>2</sup>	oc <sup>2</sup> Texture Remarks			
0-2	7.5 Y/R 3/3	95	Color (moist) 5 YR 5/8		C	PL	silty clay			
0-2	7.5 1/11 5/5		3 11( 3/ 6			<u> </u>	Silty Clay	<u> </u>		
							-			
-					-		-			
					-			<u> </u>		
1Typo: C-C	Concentration, D=De	nlotion PM-	-Poducod Matrix C	S-Covere	d or Coat	nd Sand G	raine <sup>2</sup> I	Location: PL=Pore Lining, M=Matrix.		
	Indicators: (Appli					eu Sanu G		ors for Problematic Hydric Soils <sup>3</sup> :		
Histoso		ouble to un	Sandy Red		.cu.,			m Muck (A9) ( <b>LRR C</b> )		
	pipedon (A2)		Stripped M					n Muck (A9) (LRR B)		
	listic (A3)		Loamy Mu	. ,	al (F1)			luced Vertic (F18)		
	en Sulfide (A4)		Loamy Gle					Parent Material (TF2)		
	ed Layers (A5) (LRR	C)	Depleted N		(1 2)			er (Explain in Remarks)		
	uck (A9) ( <b>LRR D</b> )	•	Redox Dai		(F6)			o. (2.p.a 16ao,		
	ed Below Dark Surface	ce (A11)	Depleted [							
	ark Surface (A12)		✓ Redox Dep				<sup>3</sup> Indicato	ors of hydrophytic vegetation and		
Sandy I	Mucky Mineral (S1)		Vernal Poo	ols (F9)			wetlar	nd hydrology must be present,		
Sandy 0	Gleyed Matrix (S4)						unless	s disturbed or problematic.		
	Layer (if present):									
Type: cla	ay									
Depth (in	nches): 2						Hydric So	oil Present? Yes No		
Remarks:										
HYDROLO										
	drology Indicators									
Primary Indi	icators (minimum of	one required	d; check all that app	oly)				condary Indicators (2 or more required)		
Surface	Water (A1)		Salt Crus	t (B11)			_	Water Marks (B1) (Riverine)		
High W	ater Table (A2)		Biotic Cru	ust (B12)			_	Sediment Deposits (B2) (Riverine)		
Saturati	ion (A3)		Aquatic II	nvertebrate	es (B13)		_	Drift Deposits (B3) (Riverine)		
Water N	Marks (B1) (Nonrive	rine)	Hydroger	n Sulfide O	dor (C1)			Drainage Patterns (B10)		
Sedime	ent Deposits (B2) (No	onriverine)	✓ Oxidized	Rhizosphe	eres along	Living Ro	ots (C3)	Dry-Season Water Table (C2)		
Drift De	posits (B3) (Nonrive	erine)	Presence	of Reduc	ed Iron (C	4)	_	Crayfish Burrows (C8)		
Surface	Soil Cracks (B6)		Recent Ir	on Reduct	ion in Tille	d Soils (C	6) <u>√</u>	Saturation Visible on Aerial Imagery (C9)		
Inundat	ion Visible on Aerial	Imagery (B	7) Thin Muc	k Surface	(C7)			Shallow Aquitard (D3)		
Water-S	Stained Leaves (B9)		Other (Ex	cplain in Re	emarks)			FAC-Neutral Test (D5)		
Field Obser	rvations:									
Surface Wa	ter Present?	Yes	No <u>✓</u> Depth (ii	nches):						
Water Table			No <u>√</u> Depth (ii							
							امسط لليطعماء	any Bracant? Vac. / No.		
Saturation F	resent? pillary fringe)	res	No <u>✓</u> Depth (ii	ncnes):		wet	iana Hyaroid	ogy Present? Yes No		
	ecorded Data (stream	n gauge, mo	onitoring well, aerial	photos, p	revious ins	spections),	if available:			
	,									
Remarks:										
Remarks.										

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>/:</sub> <u>Sacrame</u>	nto County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	17
Investigator(s): L. Burris, A. Sennet, A. Godinho	:	Section, To	ownship, Ra	nge: Township 7N / Ra	ange 7E / Section	n 11
Landform (hillslope, terrace, etc.): flatland		Local relie	f (concave,	convex, none): concave	Slop	oe (%):0
Subregion (LRR):						
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for the						
Are Vegetation, soil, or Hydrology				'Normal Circumstances" p		No <b>√</b>
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
						oturos ete
SUMMARY OF FINDINGS – Attach site map	snowing	Sampiii	ig point i	ocations, transects	, important le	atures, etc.
Hydrophytic Vegetation Present? Yes		ls ti	ne Sampled	l Area		
Hydric Soil Present?  Yes   Ves		with	nin a Wetlar	nd? Yes <u>√</u>	No	
Wetland Hydrology Present? Yes   ✓  Remarks:	NO					
Associated feature: SW 13. Grazed.						
VEGETATION – Use scientific names of pla		D	. In Protes	I Barrella and Tarrella and		
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Dominance Test work  Number of Dominant S		
1				That Are OBL, FACW,		(A)
2				Total Number of Domin	nant	
3		-		Species Across All Stra		(B)
4				Percent of Dominant S	pecies	
Sapling/Shrub Stratum (Plot size:)		= Total Co	over	That Are OBL, FACW,	or FAC: 10	0 (A/B)
1				Prevalence Index wor	ksheet:	
2.				Total % Cover of:	Multiply	/ by:
3				OBL species	x 1 =	
4				FACW species		
5				FAC species		
Herb Stratum (Plot size: 5m x 5m )		= Total Co	over	FACU species		
1. Festuca perennis	70	Υ	FAC	UPL species  Column Totals:		
2. Hordeum marinum	20	Υ	FAC	Column Totals.	(A)	(В)
3. Convolvulus arvensis	5	N	NL	Prevalence Index	x = B/A =	
4				Hydrophytic Vegetation		
5				✓ Dominance Test is		
6				Prevalence Index i		
7				Morphological Ada data in Remark	s or on a separate	
8	95	T-1-1-0		Problematic Hydro	phytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)		= Total Co	over			
1				<sup>1</sup> Indicators of hydric so		
2				be present, unless distr	urbed or problemat	iiC.
		= Total Co	over	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum5 % Cov	er of Biotic Cı	rust			es✓ No	
Remarks:				1		

Depth	scription: (Describe Matrix	and act		ox Feature		J. 50.11111		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 3/3	95	5 YR 5/8	5	С	PL	silty clay	
	-							
				_				<del>-</del>
	_				<u> </u>			
			-					
	-				· ——		-	
1-							. 2.	<del></del>
	Concentration, D=De Indicators: (Applicators)					ed Sand G		Location: PL=Pore Lining, M=Matrix.  ors for Problematic Hydric Soils <sup>3</sup> :
_		cable to all			ea.)			
Histoso	DI (A1) Epipedon (A2)		Sandy Red Stripped M					n Muck (A9) ( <b>LRR C</b> ) n Muck (A10) ( <b>LRR B</b> )
	Histic (A3)		Stripped iv	, ,	d (F1)			luced Vertic (F18)
	gen Sulfide (A4)		Loamy Gle					Parent Material (TF2)
	ed Layers (A5) (LRR	C)	Depleted N		. ()			er (Explain in Remarks)
	luck (A9) (LRR D)	,	Redox Dai		(F6)			,
Deplete	ed Below Dark Surfa	ce (A11)	Depleted [	Dark Surfac	ce (F7)			
	Dark Surface (A12)		✓ Redox Dep		F8)			ors of hydrophytic vegetation and
	Sandy Mucky Mineral (S1) Vernal Pools (F9)							nd hydrology must be present,
	Gleyed Matrix (S4)						unless	s disturbed or problematic.
	Layer (if present):							
Type: <u>cl</u>			<u> </u>					
Depth (ii	nches): <u>2</u>						Hydric S	oil Present? Yes No
Remarks:								
HYDROLO	OGY							
Wetland H	ydrology Indicators	):						
	licators (minimum of		d: check all that app	olv)			Sec	condary Indicators (2 or more required)
	e Water (A1)	ono roquiro	Salt Crus					Water Marks (B1) (Riverine)
	/ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
Saturat	` '		Aquatic II		se (R13)			Drift Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b>	rine)	Hydroger					Drainage Patterns (B10)
· <del></del>	ent Deposits (B2) (No	,			, ,	Livina Ro		Dry-Season Water Table (C2)
	eposits (B3) (Nonrive		Presence		_	-		Crayfish Burrows (C8)
· <del></del>	e Soil Cracks (B6)	511110)	Recent Ir					Saturation Visible on Aerial Imagery (C9)
	tion Visible on Aerial	Imagery (B				a 00113 (01		Shallow Aquitard (D3)
	Stained Leaves (B9)		Other (E)		, ,		·	FAC-Neutral Test (D5)
Field Obse								.,
		Vas	No <u>√</u> Depth (ii	nches).				
			No ✓ Depth (ii			l l		
Water Table					l 1	Processor (C. No.		
Saturation I	Present? apillary fringe)	Yes	No <u>√</u> Depth (ii	ncnes):		_ wet	iana Hyaroid	ogy Present? Yes No
	ecorded Data (strear	n gauge, m	onitoring well, aerial	photos, pi	evious ins	pections),	, if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project		City/Co	<sub>unty:</sub> Sacrame	ento County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	18
Investigator(s): L. Burris, A. Sennet, A. Godinho				<sub>ange:</sub> <u>Township 7N / Ra</u>		
Landform (hillslope, terrace, etc.): flatland						
Subregion (LRR): C						
Soil Map Unit Name: Galt clay, 2 - 5% slopes				NWI classific		
Are climatic / hydrologic conditions on the site typical for th						
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" p		No 🗸
Are Vegetation, Soil, or Hydrology	-			eeded, explain any answe		110
SUMMARY OF FINDINGS – Attach site map	showing	samp	oling point	locations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes N	No <u> </u>	١.	s the Sample	d Aroa		
Hydric Soil Present? Yes N			within a Wetla		No <u></u> ✓	
Wetland Hydrology Present? Yes <u>✓</u> N	No		William a Wolla	100		•
Remarks:						
Grazed. Upland point to 17 (SW-13)						
VEGETATION – Use scientific names of plan	nts.					
	Absolute		nant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)			es? Status	Number of Dominant S		(4)
1				That Are OBL, FACW,	or FAC: 0	(A)
2. 3.				Total Number of Domin		(D)
4				Species Across All Stra	ıla. <u> </u>	(B)
"-				Percent of Dominant Sport That Are OBL, FACW,	pecies	(A/R)
Sapling/Shrub Stratum (Plot size:)						(٨/٥)
1				Prevalence Index wor		
2				Total % Cover of:		
3				OBL species		
4				FACW species		
5				FACU species		
Herb Stratum (Plot size: 5m x 5m	-	_ = 10ta	i Oover	UPL species		
1. Bromus hordeaceus	70	Y	FACU	Column Totals:		
2. Festuca perennis	10	N	FAC			
3. Hordeum murinum		N	— — —		= B/A =	
4. Holocarpha virgata	_ 5	N		Hydrophytic Vegetation		
5				Dominance Test is Prevalence Index i		
6				Morphological Ada		supporting
7					s or on a separate	
8	100	- Tota	l Cover	Problematic Hydro	phytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)		1010	00101			
1				<sup>1</sup> Indicators of hydric soi be present, unless distr		
2					Tibed of problemat	
	-	_= Tota	l Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum	er of Biotic C	rust			s No	✓
Remarks:						

	cription: (Describe Matrix	to the de	pth needed to docu	ment the		or confirr	n the absence of	r indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	ox Feature %	es <u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 2.5/2	97	5 YR 5/8	3	С	PL	silty clay	
		_		_				
			-		- · · · · · · · · · · · · · · · · · · ·			
					-			
		_						
		_						
		_						
¹Type: C=C	oncentration D=De	nletion RM	l=Reduced Matrix, C	S-Covere	ed or Coat	ed Sand G	rains <sup>2</sup> l ocat	tion: PL=Pore Lining, M=Matrix.
			I LRRs, unless othe			ca cana c		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		,			ck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M	. ,				ck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu		al (F1)			Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matri	x (F2)		Red Pare	ent Material (TF2)
Stratified	d Layers (A5) ( <b>LRR</b>	C)	Depleted N	/latrix (F3)			Other (E	xplain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar		. ,			
	d Below Dark Surfac	ce (A11)	Depleted D				3	
	ark Surface (A12)		Redox Dep		(F8)			hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	ois (F9)			•	rdrology must be present, turbed or problematic.
	Layer (if present):						uriless dist	urbed of problematic.
Type: cla								
Depth (in							Hydric Soil P	resent? Yes No ✓
Remarks:	CHE3). <u>-</u>						Tryunc 3011 T	resent: res Nov
HYDROLO	GY							
	drology Indicators	:						
_			ed; check all that app	olv)			Seconda	ary Indicators (2 or more required)
	Water (A1)	0110 10 9011	Salt Crus					ter Marks (B1) ( <b>Riverine</b> )
_	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturation			Aquatic Ir		es (B13)			t Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b>	rine)	Hydrogen		, ,		<del></del>	inage Patterns (B10)
	nt Deposits (B2) (No		-			Livina Ro		-Season Water Table (C2)
	posits (B3) (Nonrive		Presence		-	•		yfish Burrows (C8)
	Soil Cracks (B6)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ed Soils (C		uration Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (E						allow Aguitard (D3)
· <del></del>	stained Leaves (B9)		Other (Ex					C-Neutral Test (D5)
Field Obser	vations:			•	,		<del></del>	
Surface Wat	er Present?	Yes	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No <u>✓</u> Depth (ir				land Hydrology I	Present? Yes √ No
(includes cap	oillary fringe)	168	No <u>▼</u> Deptii (ii	iches)		•••••	ianu riyurology i	riesent: ies v NO
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, p	revious in	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	_ City/County: Sacrame	ento County	Sampling Date: 10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 19
Investigator(s): A, Sennett and A. Godinho, L. Burris	_ Section, Township, Ra	ange: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave,	convex, none): Concave	Slope (%):0
Subregion (LRR): Lat: 3	8.47333069	Long: -121.1724767	Datum: WGS84
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slopes			
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation significant			oresent? Yes No✓
Are Vegetation, Soil, or Hydrology naturally p		eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showin			
SUMMARY OF FINDINGS – Attach site map showin		locations, transects	, important reatures, etc.
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes ✓ No Wetland Hydrology Present? Yes ✓ No Remarks:	within a Wetla		No
Associated Feature: VP-02 Grazing, hoof punch			
VEGETATION – Use scientific names of plants.  Absolut	te Dominant Indicator	Dominance Test work	shooti
Tree Stratum (Plot size:)	er Species? Status	Number of Dominant S That Are OBL, FACW,	pecies
2		Total Number of Domin Species Across All Stra	
4			. , ,
Sapling/Shrub Stratum (Plot size:)	= Total Cover	Percent of Dominant Sp That Are OBL, FACW,	or FAC: 100 (A/B)
1		Prevalence Index wor	ksheet:
2		Total % Cover of:	Multiply by:
3		OBL species	x 1 =
4			x 2 =
5			x 3 =
Herb Stratum (Plot size: 5m x 5m )	= Total Cover		x 4 =
1. Festuca perennis 20	Y FAC		x 5 = (A) (B)
	N OBL	Column Totals.	(A) (B)
3. Hordeum marinum 10	Y FAC	Prevalence Index	= B/A =
4		Hydrophytic Vegetation	on Indicators:
5		✓ Dominance Test is	
6		Prevalence Index is	
7			ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8			ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover		
1		<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum65	<del></del>	Vegetation	s _ ✓ _ No
Remarks:		1	

Depth	Matrix			ox Features			_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/2	93	5 yr 5/8	_ 7	<u>C</u>	PL/M	Silty clay	
			· -					
			-					
							-	
			-					
			N=Reduced Matrix, C			d Sand G		cation: PL=Pore Lining, M=Matrix.
•		cable to al	I LRRs, unless other		ea.)			for Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Red					Muck (A9) (LRR C)
	pipedon (A2) listic (A3)		Stripped M Loamy Mu		I (F1)			Muck (A10) ( <b>LRR B</b> ) ed Vertic (F18)
_	en Sulfide (A4)		Loamy Gle	•	` '			arent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N		(1 2)		· · · · · · · · · · · · · · · · · · ·	(Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	•	Redox Dar		F6)			(27p.a.r. m. romano)
	ed Below Dark Surfa	ce (A11)	Depleted D	,	. ,			
Thick D	ark Surface (A12)		Redox Dep	ressions (I	F8)		<sup>3</sup> Indicators	of hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		Vernal Poo	ols (F9)			wetland	hydrology must be present,
	Gleyed Matrix (S4)						unless d	listurbed or problematic.
	Layer (if present):							
	ay Hardpan							,
Depth (in	nches): <u>3</u>						Hydric Soil	Present? Yes No
Dama aulia.								
Remarks:								
HYDROLO								
HYDROLO Wetland Hy	drology Indicators							
HYDROLO Wetland Hy Primary Indi	rdrology Indicators cators (minimum of		ed; check all that app					ndary Indicators (2 or more required)
HYDROLC Wetland Hy Primary Indi Surface	rdrology Indicators cators (minimum of water (A1)		Salt Crus	t (B11)			V	Vater Marks (B1) (Riverine)
HYDROLC Wetland Hy Primary Indi Surface	rdrology Indicators cators (minimum of			t (B11)			V	· · · · · · · · · · · · · · · · · · ·
HYDROLC Wetland Hy Primary Indi Surface	rdrology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus Biotic Cru Aquatic Ir	t (B11) ist (B12) nvertebrate	` '		V	Vater Marks (B1) (Riverine)
HYDROLO Wetland Hy Primary Indi Surface High Water N	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	one require	Salt Crus Biotic Cru Aquatic Ir Hydrogen	t (B11) ist (B12) nvertebrate i Sulfide Od	dor (C1)		V S D	Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10)
HYDROLO Wetland Hy Primary Indi Surface High Wi Saturati Water M	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No	one require	Salt Crus Biotic Cru Aquatic Ir Hydrogen ) ✓ Oxidized	t (B11) ast (B12) avertebrate a Sulfide Od Rhizosphe	dor (C1) res along	_	V S D ots (C3) D	Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) brift Deposits (B3) (Riverine) brainage Patterns (B10) bry-Season Water Table (C2)
HYDROLO Wetland Hy Primary Indi Surface High Water M Sedime Drift De	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No	one require	Salt Crusi Biotic Cru Aquatic Ir Hydrogen )	t (B11) ust (B12) nvertebrate u Sulfide Oo Rhizosphe of Reduce	dor (C1) res along d Iron (C4	1)	V S C C ots (C3) C	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) drift Deposits (B3) (Riverine) drainage Patterns (B10) dry-Season Water Table (C2) drayfish Burrows (C8)
HYDROLO  Wetland Hy Primary Indi Surface High Water Now Sedime Drift De Surface	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (Nonrive Soil Cracks (B6)	one require erine) ponriverine) erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	t (B11) ust (B12) nvertebrate u Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along d Iron (C4 on in Tille	1)	V S C C C S) S	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) drift Deposits (B3) (Riverine) drainage Patterns (B10) dry-Season Water Table (C2) drayfish Burrows (C8) drautation Visible on Aerial Imagery (C9)
HYDROLO  Wetland Hy Primary Indi  Surface High Water Notes and Sedime Drift De Surface Inundat	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial	one require  rine)  priverine)  erine)  Imagery (E	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir B7) Thin Muci	t (B11) ust (B12) nvertebrate Sulfide Oc Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along d Iron (C4 on in Tille C7)	1)	V S C C C C S S)	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) derift Deposits (B3) (Riverine) derinage Patterns (B10) dery-Season Water Table (C2) derayfish Burrows (C8) deaturation Visible on Aerial Imagery (C9) dehallow Aquitard (D3)
HYDROLO  Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Surface Inundat Water-S	cators (minimum of water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive on Deposits (B2) (Nonrive on Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	one require  rine)  priverine)  erine)  Imagery (E	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir B7) Thin Muci	t (B11) ust (B12) nvertebrate u Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along d Iron (C4 on in Tille C7)	1)	V S C C C C S S)	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) drift Deposits (B3) (Riverine) drainage Patterns (B10) dry-Season Water Table (C2) drayfish Burrows (C8) drautation Visible on Aerial Imagery (C9)
HYDROLO  Wetland Hy Primary Indi Surface High Water M Sedime Drift De Surface Inundat Water-S Field Obser	cators (minimum of water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive on Deposits (B2) (Nonrive on Caracks (B6) ion Visible on Aerial Stained Leaves (B9)	one require erine) conriverine; erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire Thin Muc Other (Ex	t (B11) ast (B12) avertebrate a Sulfide Od Rhizosphe of Reduce on Reduction k Surface ( pplain in Re	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C6	V S C C C C S S)	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) derift Deposits (B3) (Riverine) derinage Patterns (B10) dery-Season Water Table (C2) derayfish Burrows (C8) deaturation Visible on Aerial Imagery (C9) dehallow Aquitard (D3)
HYDROLO  Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Surface Inundat Water-S	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	one require  prine)  ponriverine)  erine)  Imagery (E	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex	t (B11) list (B12) evertebrate a Sulfide Oo Rhizosphe of Reduce on Reduction k Surface ( explain in Re	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (Ce	V S C C C C C S S)	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) derift Deposits (B3) (Riverine) derinage Patterns (B10) dery-Season Water Table (C2) derayfish Burrows (C8) deaturation Visible on Aerial Imagery (C9) dehallow Aquitard (D3)
HYDROLO  Wetland Hy Primary Indi Surface High Water M Sedime Drift De Surface Inundat Water-S Field Obser	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	one require  prine)  ponriverine)  erine)  Imagery (E	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire Thin Muc Other (Ex	t (B11) list (B12) evertebrate a Sulfide Oo Rhizosphe of Reduce on Reduction k Surface ( explain in Re	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (Ce	V S C C C C C S S)	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) derift Deposits (B3) (Riverine) derinage Patterns (B10) dery-Season Water Table (C2) derayfish Burrows (C8) deaturation Visible on Aerial Imagery (C9) dehallow Aquitard (D3)
HYDROLO  Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	one require  rine)  porriverine)  lmagery (E  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex	t (B11) ust (B12) nvertebrate u Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( cplain in Re	dor (C1) res along d Iron (C4 on in Tille C7) marks)	I) d Soils (C6	V S C C C S) S S	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) derift Deposits (B3) (Riverine) derinage Patterns (B10) dery-Season Water Table (C2) derayfish Burrows (C8) deaturation Visible on Aerial Imagery (C9) dehallow Aquitard (D3)
HYDROLO  Wetland Hy Primary Indi  Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require  rine)  ponriverine)  lmagery (E  Yes  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Od Rhizosphe li Greduce on Reducti lik Surface ( liplain in Re linches): nches): nches):	dor (C1) res along red Iron (C4 on in Tille C7) marks)	t) d Soils (C6	V S C ots (C3) C C S) S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Raturation Visible on Aerial Imagery (C9) Prayfish AC-Neutral Test (D5)
HYDROLO  Wetland Hy Primary Indi  Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require  rine)  ponriverine)  lmagery (E  Yes  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Od Rhizosphe li Greduce on Reducti lik Surface ( liplain in Re linches): nches): nches):	dor (C1) res along red Iron (C4 on in Tille C7) marks)	t) d Soils (C6	V S C ots (C3) C C S) S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Raturation Visible on Aerial Imagery (C9) Prayfish AC-Neutral Test (D5)
HYDROLO  Wetland Hy Primary Indi Surface High Water Mater Mater Mater Sedime Unift De Mater-S Field Obser Surface Water Table Saturation F (includes call Describe Res	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require  rine)  ponriverine)  lmagery (E  Yes  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Od Rhizosphe li Greduce on Reducti lik Surface ( liplain in Re linches): nches): nches):	dor (C1) res along red Iron (C4 on in Tille C7) marks)	t) d Soils (C6	V S C ots (C3) C C S) S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Raturation Visible on Aerial Imagery (C9) Prayfish AC-Neutral Test (D5)
HYDROLO  Wetland Hy Primary Indi  Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require  rine)  ponriverine)  lmagery (E  Yes  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Od Rhizosphe li Greduce on Reducti lik Surface ( liplain in Re linches): nches): nches):	dor (C1) res along red Iron (C4 on in Tille C7) marks)	t) d Soils (C6	V S C ots (C3) C C S) S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Raturation Visible on Aerial Imagery (C9) Prayfish AC-Neutral Test (D5)
HYDROLO  Wetland Hy Primary Indi Surface High Water Mater Mater Mater Sedime Drift De Mater-S Field Obser Surface Water Table Saturation F (includes call Describe Res	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require  rine)  ponriverine)  lmagery (E  Yes  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Od Rhizosphe li Greduce on Reducti lik Surface ( liplain in Re linches): nches): nches):	dor (C1) res along red Iron (C4 on in Tille C7) marks)	t) d Soils (C6	V S C ots (C3) C C S) S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Raturation Visible on Aerial Imagery (C9) Prayfish AC-Neutral Test (D5)
HYDROLO  Wetland Hy Primary Indi Surface High Water Mater Mater Mater Sedime Drift De Mater-S Field Obser Surface Water Table Saturation F (includes call Describe Res	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require  rine)  ponriverine)  lmagery (E  Yes  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Od Rhizosphe li Greduce on Reducti lik Surface ( liplain in Re linches): nches): nches):	dor (C1) res along red Iron (C4 on in Tille C7) marks)	t) d Soils (C6	V S C ots (C3) C C S) S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Raturation Visible on Aerial Imagery (C9) Prayfish AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/	City/County: Sacramento County Sampling Date:10/28				
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	20
Investigator(s): L. Burris, A. Sennet, A. Godinho	Sec	tion, Tow	nship, Raı	nge: Township 7N / Ra	nge 7E / Section	11
Landform (hillslope, terrace, etc.): flatland	Loc	al relief (	concave, o	convex, none): concave	Slop	oe (%):0
Subregion (LRR): Lat						
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slop						
Are climatic / hydrologic conditions on the site typical for this time						
Are Vegetation signific				Normal Circumstances" p		No ✓
Are Vegetation, Soil, or Hydrology natural				eded, explain any answer		
SUMMARY OF FINDINGS – Attach site map show			,			atures, etc.
			, po		,	
Hydrophytic Vegetation Present? Yes   ✓ No		Is the	Sampled	Area		
Hydric Soil Present? Yes   ✓ No  Wetland Hydrology Present? Yes  ✓ No		withi	n a Wetlan	nd? Yes <u>√</u>	No	
Remarks:						
Associated feature: SW 14. Grazed.						
Associated leature. SW 14. Grazeu.						
VECETATION . He esignific names of plants						
VEGETATION – Use scientific names of plants.	olute Do	minant	Indicator	Dominance Test works	chooti	
	over Sp			Number of Dominant Sp		
1				That Are OBL, FACW, o		(A)
2				Total Number of Domina	ant	
3				Species Across All Strat	ta: <u>3</u>	(B)
4				Percent of Dominant Sp		-
Sapling/Shrub Stratum (Plot size:)	= T	otal Cov	er	That Are OBL, FACW, o	or FAC: 66.	6 (A/B)
1				Prevalence Index work	rsheet:	
2				Total % Cover of:	Multiply	/ by:
3				OBL species		
4				FACW species		
5				FACIL species		
Herb Stratum (Plot size: 5m x 5m )	= T	otal Cov	er	FACU species UPL species		
	20	Υ	FAC	Column Totals:		
2	5	N	NL			
0	20	Υ	FAC	Prevalence Index		
"	20	Υ	FAC	Hydrophytic Vegetatio		
5				✓ Dominance Test is  Prevalence Index is		
6				Prevalence Index is Morphological Adap		supporting
7					s or on a separate	
8		otal Cov	er	Problematic Hydrop	ohytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)		otal oov	01			
1				<sup>1</sup> Indicators of hydric soil be present, unless distu		
2					Toca or problemat	
	= T	otal Cov	er	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum35  % Cover of Bi	otic Crust			Present? Yes	s <u>√</u> No	
Remarks:						

Depth	Matrix			ox Feature		J. <b>JJ</b>	m the absence of indicators.)			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2	7.5 Y/R 3/2	93	5 YR 5/8	7	С	PL	silty clay			
			-	_	·		-			
	-					-		·		
	_									
	_	_			_					
				_						
-	_					-	·	-		
1	_						. 2	· <del>· · · · · · · · · · · · · · · · · · </del>		
	Concentration, D=De Indicators: (Appli					ed Sand G		s for Problematic Hydric Soils <sup>3</sup> :		
-		cable to all			ea.)					
	Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)							Muck (A9) (LRR C) Muck (A10) (LRR B)		
Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1)								iced Vertic (F18)		
	gen Sulfide (A4)		Loamy Gle					Parent Material (TF2)		
	ed Layers (A5) (LRR	C)	Depleted N		( -)			r (Explain in Remarks)		
	fuck (A9) (LRR D)	,	✓ Redox Dai		(F6)			,		
Deplete	ed Below Dark Surfa	ce (A11)	Depleted [	Dark Surfac	ce (F7)					
	Dark Surface (A12)		✓ Redox Dep		(F8)			s of hydrophytic vegetation and		
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				d hydrology must be present,		
	Gleyed Matrix (S4)						unless	disturbed or problematic.		
	Layer (if present):									
Type: <u>cl</u>										
Depth (ii	nches): <u>2</u>						Hydric So	il Present? Yes No		
Remarks:										
İ										
HYDROLO	OGY									
Wetland H	ydrology Indicators	:								
	licators (minimum of		d check all that app	olv)			Seco	ondary Indicators (2 or more required)		
	e Water (A1)	ono roquiro	Salt Crus					Water Marks (B1) (Riverine)		
	/ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)		
Saturat	, ,		Aquatic II		se (R13)			Drift Deposits (B3) (Riverine)		
·	Marks (B1) ( <b>Nonrive</b>	rine)	Hydroger					Drainage Patterns (B10)		
·	ent Deposits (B2) (No	•	· · · · ·			Living Ro		Dry-Season Water Table (C2)		
	eposits (B3) (Nonrive		Presence		_	-		Crayfish Burrows (C8)		
	e Soil Cracks (B6)	31111 <b>0</b> )	Recent Ir					Saturation Visible on Aerial Imagery (C9)		
· <del></del>	tion Visible on Aerial	Imagery (B				a 00110 (0		Shallow Aquitard (D3)		
	Stained Leaves (B9)		Other (E)		. ,			FAC-Neutral Test (D5)		
Field Obse			0.1101 (2)	tpiairi ii rtt	Jiliai Koj			17.6 1.6 1.6 1.6 (2.6)		
		Vac	No <u>✓</u> Depth (ii	nches).						
			No <u>✓</u> Depth (ii							
Water Table										
Saturation I	Present? apillary fringe)	Yes	No <u>√</u> Depth (ii	ncnes):		wet	iana Hyarolo	gy Present? Yes ✓ No		
	ecorded Data (strear	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections)	, if available:			
Remarks:										
-										

Project/Site: Sloughhouse Solar Energy Project	C	ity/County:	Sacramer	nto County	Sampling Date: 10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 21
Investigator(s): A, Sennett, A. Godinho, L. Burris	s	ection, Tov	vnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland	L	ocal relief	(concave, c	convex, none): Concave	Slope (%):0
Subregion (LRR): La	at: 38.4	730223		Long: -121.1728146	Datum: WGS84
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slop					
Are climatic / hydrologic conditions on the site typical for this time					
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology signifi					
Are Vegetation, Soil, or Hydrology natura				eded, explain any answei	
SUMMARY OF FINDINGS – Attach site map sho					
SOMMANT OF FINDINGS - Attach site map sho	willig		y point ic	ocations, transects	, important leatures, etc.
Hydrophytic Vegetation Present? Yes No		Is the	e Sampled	Area	
Hydric Soil Present? Yes <u>√</u> No		withi	n a Wetlan	d? Yes <u>√</u>	No
Wetland Hydrology Present? Yes No No					
Associated Feature: VP-03					
Grazing, hoof punch					
VEGETATION – Use scientific names of plants.					
		Dominant Species?		Dominance Test works	
1				Number of Dominant Sp That Are OBL, FACW, of	pecies or FAC:3(A)
2.					
3				Total Number of Domina Species Across All Stra	
4				Percent of Dominant Sp	
Ocalica/Ohart Oratus (District	0 =	= Total Cov	/er		or FAC:100 (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worl	ksheet:
1					Multiply by:
3					x 1 =
4.					x 2 =
5					x 3 =
	=	= Total Cov	/er	FACU species	x 4 =
Herb Stratum (Plot size: 5m x 5m )	_	N.	NII	UPL species	x 5 =
1. Holocarpha virgate		Nv	NL OBL	Column Totals:	(A) (B)
	20	Y	FAC	Prevalence Index	= B/A =
-	10	Y	FAC	Hydrophytic Vegetation	
5				✓ Dominance Test is	
6				Prevalence Index is	s ≤3.0 <sup>1</sup>
7				Morphological Adap	ptations <sup>1</sup> (Provide supporting
8					s or on a separate sheet)  ohytic Vegetation <sup>1</sup> (Explain)
Washi Vina Chahum (Dlahaina	50 =	= Total Cov	/er	Problematic Hydrop	mytic vegetation (Explain)
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric soil	I and wetland hydrology must
2				be present, unless distu	
		= Total Cov	/er	Hydrophytic	
% Bare Ground in Herb Stratum 50				Vegetation Present? Yes	s
Remarks:	notic Cit	151		rieseit: ies	<u> </u>
Grazing					
1					

		to the de	oth needed to docu			or confirm	the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/2	93	5 yr 5/8	7	С	PL/M	Silty clay	
	<u>-</u>		<u>-</u>		-	. <del></del> _		
					-			
					·			_
					·		<del></del>	
			=Reduced Matrix, C			ed Sand Gr		ation: PL=Pore Lining, M=Matrix.
-		cable to all	I LRRs, unless other		ed.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)		Sandy Red Stripped M	. ,				uck (A9) (LRR C)
	istic (A3)		Stripped ivi		al (F1)			uck (A10) ( <b>LRR B</b> ) d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N		,			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar		, ,			
	d Below Dark Surfac	e (A11)	Depleted D				3	
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	DIS (F9)				ydrology must be present, sturbed or problematic.
	Layer (if present):						dilicas dia	nurbed of problematic.
Type: Cla								
Depth (in							Hydric Soil F	Present? Yes No
Remarks:							,	
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one require	ed; check all that app	ly)			Second	lary Indicators (2 or more required)
_	Water (A1)		Salt Crus	t (B11)			· · · · · · · · · · · · · · · · · · ·	ater Marks (B1) ( <b>Riverine</b> )
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Se	diment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic Ir		, ,		Dri	ft Deposits (B3) (Riverine)
· ·	larks (B1) ( <b>Nonrive</b> i	•	Hydrogen				· · · · · · · · · · · · · · · · · · ·	ainage Patterns (B10)
	nt Deposits (B2) (No				-	_		y-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					ayfish Burrows (C8)
	Soil Cracks (B6)	Imagan, (F				ed Soils (C6		turation Visible on Aerial Imagery (C9)
	on Visible on Aerial stained Leaves (B9)	ımagery (E	· —	k Surface plain in Re	. ,		· · · · · · · · · · · · · · · · · · ·	allow Aquitard (D3) C-Neutral Test (D5)
Field Obser	( )		Other (EX	.piaiii iii ik	elliaiks)	1		C-Neutral Test (D3)
Surface Wat		/ac	No <u>✓</u> Depth (ir	nches).				
Water Table			No <u>✓</u> Depth (ir					
Saturation P			No ✓ Depth (in				and Hydrology	Present? Yes No
(includes car	oillary fringe)							riesent: res_v NO
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/Cou	<sub>ınty:</sub> <u>Sacrame</u> ı	nto County	_ Sampling Dat	e: <u>10/28/</u>	/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	_ Sampling Poi	nt: <u>22</u>	2
Investigator(s): A, Sennett, A. Godinho, L. Burris	Section	Township, Rar	nge: <u>Township 7N / R</u>	tange 7E / Sect	tion 11	
Landform (hillslope, terrace, etc.): Flatland	Local re	elief (concave, o	convex, none): Convex		Slope (%): _	0
Subregion (LRR): Lat:	38.473033	304	Long: -121.1729528	3 D	atum: WGS	84
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slopes						
Are climatic / hydrologic conditions on the site typical for this time o						
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology significal					No	✓
Are Vegetation, Soil, or Hydrology naturally						
SUMMARY OF FINDINGS – Attach site map show	ing samp	iing point it	ocations, transect	s, important	reatures	, etc.
Hydrophytic Vegetation Present? Yes No✓		s the Sampled	Area			
Hydric Soil Present? Yes No	,	vithin a Wetlan		No _ <b>√</b>	1	
Wetland Hydrology Present? Yes ✓ No						
Remarks:						
Grazing.						
Associated Feature: VP-04						
<b>VEGETATION</b> – Use scientific names of plants.						
		ant Indicator	Dominance Test wor			
1			Number of Dominant S That Are OBL, FACW		1	(A)
2						(7 1)
3.			Total Number of Domi Species Across All Str		2	(B)
4						` '
0	) = Total	Cover	Percent of Dominant S That Are OBL, FACW		50	(A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index wo	rkehoot:		
1			Total % Cover of:		Itiply by:	
2			OBL species 0			
4			FACW species 0			
5.			FAC species 1			
0	) = Total		FACU species 1	x 4 = _	4	-
Herb Stratum (Plot size: 5m x 5m )		FACIL	UPL species 1	x 5 = _		-
	5 <u>Y</u>	FACU_	Column Totals:	<u>3</u> (A) _	12	(B)
		NL FAC	Prevalence Inde	ex = B/A =	4	
4			Hydrophytic Vegetat			-
5			Dominance Test i			
6			Prevalence Index	is ≤3.0 <sup>1</sup>		
7			Morphological Ad	aptations1 (Prov	ide supportir	ng
8			data in Remari	ks or on a separ	,	.)
	<u> </u>	Cover	Problematic Hydro	opriylic vegetali	on (Explain	)
Woody Vine Stratum (Plot size:)  1			<sup>1</sup> Indicators of hydric so	oil and wetland h	nvdrology m	ust
2			be present, unless dis			
	= Total		Hydrophytic			
% Bare Ground in Herb Stratum60			Vegetation Present? Y	es No		
Remarks:					<u> </u>	
Thatch present						

SOIL	Sampling Point:	22
	· · ·	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indi	icators.)	

0-2	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	7.5 YR 3/2	95	5 yr 5/8	5	<u>C</u>	PL	Clay	_
				_				
								-
-								
							. 2.	
			Reduced Matrix, C LRRs, unless othe			d Sand Gra		cation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol		cable to all	Sandy Red		su.)			Muck (A9) (LRR C)
	pipedon (A2)		Stripped M	. ,				Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mud		l (F1)			red Vertic (F18)
	n Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Pa	arent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	(C)	Depleted M				Other	(Explain in Remarks)
	ick (A9) (LRR D)	(144)	✓ Redox Dar	,	,			
	d Below Dark Surfa ark Surface (A12)	ice (A11)	Depleted D Redox Dep				3Indicators	of hydrophytic vegetation and
	fucky Mineral (S1)		Vernal Poo		-0)			hydrology must be present,
	Gleyed Matrix (S4)		vernari ee	15 (1 5)				listurbed or problematic.
	_ayer (if present):							·
Type: Cla	ay Hardpan							
Depth (inc	ches): 2						Hydric Soil	Present? Yes No
YDROLO	GY							
Netland Hyd	drology Indicators	s:						
Primary Indic	cators (minimum of	one required	d; check all that app				C	
Tilliary Illaic	Water (A1)			y)			Secor	ndary Indicators (2 or more required)
		Surface Water (A1)						Vater Marks (B1) (Riverine)
Surface	iter Table (A2)		Salt Crust Biotic Cru	(B11)			v	
Surface	` ,			(B11) st (B12)	s (B13)		v s	Vater Marks (B1) (Riverine)
Surface ' High Wa Saturatio	` ,	erine)	Biotic Cru Aquatic In Hydrogen	(B11) st (B12) vertebrate Sulfide Od	dor (C1)		W S D	Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine)
Surface Waller May Saturation Water M	on (A3)	,	Biotic Cru Aquatic In	(B11) st (B12) vertebrate Sulfide Od	dor (C1)	Living Root	W S D	Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) brift Deposits (B3) (Riverine)
Surface Migh Wa Saturation Water Migh Sediment Drift Dep	on (A3) larks (B1) ( <b>Nonrive</b> at Deposits (B2) ( <b>N</b> oosits (B3) ( <b>Nonriv</b>	onriverine)	Biotic Cru Aquatic In Hydrogen Oxidized I Presence	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce	dor (C1) res along d Iron (C4	1)	W S D D S ss (C3) D	Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) brift Deposits (B3) (Riverine) brainage Patterns (B10) bry-Season Water Table (C2) brayfish Burrows (C8)
Surface High Wa Saturatio Water M Sedimen Drift Dep Surface	on (A3) larks (B1) ( <b>Nonrive</b> at Deposits (B2) ( <b>N</b> oosits (B3) ( <b>Nonriv</b> Soil Cracks (B6)	onriverine) erine)	Biotic Cru Aquatic In Hydrogen ✓ Oxidized Presence Recent Iro	(B11) st (B12) vertebrate Sulfide Oc Rhizospher of Reduce on Reduction	dor (C1) res along d Iron (C <sup>2</sup> on in Tille	_	W S D D S (C3) D C C	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) drift Deposits (B3) (Riverine) drainage Patterns (B10) dry-Season Water Table (C2) drayfish Burrows (C8) disturation Visible on Aerial Imagery (C9)
Surface High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio	on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nonrive cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aeria	onriverine) erine) I Imagery (B	Biotic Cru Aquatic In Hydrogen ✓ Oxidized In Presence Recent Ind Thin Mucl	(B11) st (B12) vertebrate Sulfide Oc Rhizosphel of Reduce on Reduction	dor (C1) res along d Iron (C4 on in Tilled C7)	1)	W S D D S (C3) D C C S	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Rediaturation Visible on Aerial Imagery (C9) Rehallow Aquitard (D3)
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Surface High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-St	on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nonsits (B3) (Nonrive Soil Cracks (B6) on Visible on Aeria tained Leaves (B9) vations:	onriverine) erine) I Imagery (B	Biotic Cru Aquatic In Hydrogen  Oxidized I Presence Recent Ird Thin Mucl Other (Ex	(B11) st (B12) vertebrate Sulfide Oc Rhizospher of Reduce on Reduction Surface ( plain in Re	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) marks)	l) d Soils (C6)	W S D D S (C3) D C C S	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Rediaturation Visible on Aerial Imagery (C9) Rehallow Aquitard (D3)
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Surface High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water	on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nonrive cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aeria tained Leaves (B9) vations: er Present? Present?	onriverine) erine) I Imagery (B: Yes Yes	Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Mucl Other (Ex	(B11) st (B12) vertebrate Sulfide Oc Rhizospher of Reduce on Reductic Surface ( plain in Re ches): ches):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) marks)	l) d Soils (C6)	W S D D C C S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Reaturation Visible on Aerial Imagery (C9) Rehallow Aquitard (D3) RC-Neutral Test (D5)
Surface High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water Vater Table Saturation Pr	on (A3) larks (B1) (Nonrive at Deposits (B2) (Nonrive cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	onriverine) erine) I Imagery (B: Yes Yes	Biotic Cru Aquatic In Hydrogen ✓ Oxidized In Presence Recent Inc Thin Mucl Other (Ex	(B11) st (B12) vertebrate Sulfide Oc Rhizospher of Reduce on Reductic Surface ( plain in Re ches): ches):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) marks)	l) d Soils (C6)	W S D D C C S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Rediaturation Visible on Aerial Imagery (C9) Rehallow Aquitard (D3)
Surface High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water Vater Table Saturation Princludes cap	on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nonrive cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aeria tained Leaves (B9) vations: er Present? Present? resent?	onriverine) erine)  I Imagery (B:  Yes Yes Yes	Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Mucl Other (Ex	(B11) st (B12) vertebrate Sulfide Oc Rhizospher of Reduce on Reductic Surface ( plain in Re ches): ches): ches):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) marks)	d Soils (C6)	W S D C C S S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Reaturation Visible on Aerial Imagery (C9) Rehallow Aquitard (D3) RC-Neutral Test (D5)
Surface High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water Vater Table Saturation Princludes cap	on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nonrive cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aeria tained Leaves (B9) vations: er Present? Present? resent?	onriverine) erine)  I Imagery (B:  Yes Yes Yes	Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Ird Thin Mucl Other (Ex  No ✓ Depth (in No ✓ Depth (in	(B11) st (B12) vertebrate Sulfide Oc Rhizospher of Reduce on Reductic Surface ( plain in Re ches): ches): ches):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) marks)	d Soils (C6)	W S D C C S S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Reaturation Visible on Aerial Imagery (C9) Rehallow Aquitard (D3) RC-Neutral Test (D5)
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Surface High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-St Field Observ Surface Water Vater Table Saturation Pr includes cap Describe Rec	on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nonrive cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aeria tained Leaves (B9) vations: er Present? Present? resent?	onriverine) erine)  I Imagery (B:  Yes Yes Yes	Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Ird Thin Mucl Other (Ex  No ✓ Depth (in No ✓ Depth (in	(B11) st (B12) vertebrate Sulfide Oc Rhizospher of Reduce on Reductic Surface ( plain in Re ches): ches): ches):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) marks)	d Soils (C6)	W S D C C S S F	Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Reaturation Visible on Aerial Imagery (C9) Rehallow Aquitard (D3) RC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/Co	<sub>unty:</sub> <u>Sacrame</u>	ento County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	Sampling Point: _	23
Investigator(s): A, Sennett, A. Godinho, L. Burris	Section	n, Township, Ra	ange: <u>Township 7N / Ra</u>	ange 7E / Section	11
Landform (hillslope, terrace, etc.): Flatland	Local	relief (concave,	convex, none): Concave	Slop	oe (%):0
Subregion (LRR): Lat					
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slop					
Are climatic / hydrologic conditions on the site typical for this time					
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology signific			"Normal Circumstances"		No <b>√</b>
Are Vegetation, Soil, or Hydrology natural			eeded, explain any answe		
					oturos oto
SUMMARY OF FINDINGS – Attach site map show	willy Salli	ping point i	ocations, transects	s, important re	atures, etc.
Hydrophytic Vegetation Present? Yes ✓ No		Is the Sampled	d Area		
Hydric Soil Present?  Yes No		within a Wetla	nd? Yes <u>√</u>	/ No	ī
Wetland Hydrology Present? Yes ✓ No Remarks:					
Associated Feature: SW15					
Grazing and cow punch					
VEGETATION – Use scientific names of plants.	1		<u> </u>		
		nant Indicator ies? Status	Number of Dominant S		
1			That Are OBL, FACW,		(A)
2			Total Number of Domir	nant	
3			Species Across All Stra		(B)
4			Percent of Dominant S	species	
Sapling/Shrub Stratum (Plot size:)	<u>0</u> = Tota	al Cover	That Are OBL, FACW,		0 (A/B)
1			Prevalence Index wo	rksheet:	
2			Total % Cover of:	Multiply	/ by:
3			OBL species	x 1 =	
4			FACW species		
5			FAC species		
Herb Stratum (Plot size: 5m x 5m )	= Tota	al Cover	FACU species		
	30 Y	FAC	UPL species		
	5 N		Column Totals:	(A)	(D)
3. Hordeum marinum 1	<u>10 Y</u>	FAC	Prevalence Index	c = B/A =	
4			Hydrophytic Vegetati		
5			✓ Dominance Test is		
6			Prevalence Index	is ≤3.0° aptations¹ (Provide	aa.a.rtina
7				is or on a separate	
8	45 = Tota		Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)	= 1018	ai Covei			
1			<sup>1</sup> Indicators of hydric so be present, unless dist		
2				urbed of problemat	.10.
	<u>0</u> = Tota	al Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum55	otic Crust	0		es <u>√</u> No	
Remarks:			•		

SOIL	Sampling Point:	23
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of ind	icators.)	

Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/2	93	5 yr 5/8	7	С		Silty clay	
					_			
Type: C=C	concentration, D=Dep	oletion, RM	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand Gr	ains. <sup>2</sup> Lo	ocation: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators: (Applic	able to all	I LRRs, unless other	erwise no	ted.)		Indicator	s for Problematic Hydric Soils <sup>3</sup> :
Histoso			Sandy Red					Muck (A9) (LRR C)
	pipedon (A2)		Stripped M		ol (E1)			Muck (A10) (LRR B)
	listic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle	-	, ,			iced Vertic (F18) Parent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N					r (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	Redox Da	, ,				(
	d Below Dark Surfac	e (A11)	Depleted [		` '			
Thick D	ark Surface (A12)		Redox De	oressions	(F8)		<sup>3</sup> Indicator	s of hydrophytic vegetation and
Sandy I	Mucky Mineral (S1)		Vernal Poo	ols (F9)			wetland	d hydrology must be present,
	Gleyed Matrix (S4)						unless	disturbed or problematic.
	Layer (if present):							
	ay Hardpan							
Depth (in	iches): <u>3</u>						→ Hydric So	il Present? Yes √ No
Remarks:							11,741.10 00	
	)GY						1.94.10 00	
YDROLO		:					.,,	
YDROLO	OGY rdrology Indicators cators (minimum of o		ed; check all that app	oly)				
YDROLO Wetland Hy Primary Indi	drology Indicators						Seco	ondary Indicators (2 or more required)
YDROLO Wetland Hy Primary Indi Surface	rdrology Indicators cators (minimum of o		ed; check all that app Salt Crus Biotic Cru	t (B11)			Seco	
YDROLO Wetland Hy Primary Indi Surface	rdrology Indicators cators (minimum of of Water (A1) ater Table (A2)		Salt Crus	t (B11) ust (B12)	es (B13)		Seco	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
YDROLO Wetland Hy Primary Indi Surface High Wa	rdrology Indicators cators (minimum of of Water (A1) ater Table (A2)	one require	Salt Crus Biotic Cru Aquatic I	t (B11) ust (B12)	` '		Seco	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLO Wetland Hy Primary Indi Surface High Water IN	rdrology Indicators cators (minimum of of Water (A1) ater Table (A2) ion (A3)	one require	Salt Crus Biotic Cru Aquatic II Hydroger	ust (B11) ust (B12) nvertebrate n Sulfide C	dor (C1)	Living Roc	Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YDROLO Wetland Hy Primary Indi Surface High W: Saturati Water M	cators (minimum of of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic I Hydroger ✓ Oxidized	ust (B11) ust (B12) nvertebrate n Sulfide C	dor (C1) eres along	-	<u>Sect</u>	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hy Primary Indi Surface High Water Mater Mater Mater Design The Comment of the Comment o	rdrology Indicators cators (minimum of of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrivel nt Deposits (B2) (No	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic I Hydroger ✓ Oxidized	ust (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduc	odor (C1) eres along ed Iron (C	4)	Seco	water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLO Wetland Hy Primary Indi Surface High W: Saturati Water N Sedime Drift De Surface	rdrology Indicators cators (minimum of of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent Ir	ot (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct	odor (C1) eres along ed Iron (C ion in Tille	4)	Secondary Second	Dondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
YDROLO Wetland Hy Primary Indi Surface High Water Now Sedime Drift De Surface Inundat Water-S	rdrology Indicators cators (minimum of of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic Ii Hydroger ✓ Oxidized Presence Recent Ir Thin Muc	ot (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct	odor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Secondary Second	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
YDROLO Wetland Hy Primary Indi Surface High Water M Sedime Drift De Surface Inundat Water-S Field Obser	rdrology Indicators cators (minimum of of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	rine) enriverine) erine)	Salt Crus Biotic Cru Aquatic II Hydroger Voxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduc on Reduct k Surface kplain in R	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (C6	Secondary Second	Dondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Water M Sedime Drift De Surface Inundat Water-S Field Obser	rdrology Indicators cators (minimum of of other Cators (minimum of other Cators (minimum of other Cators (Marks (B1) (Nonriver other Cators (B2) (Nonriver other Cators (B6) on Visible on Aerial Stained Leaves (B9) rvations: ter Present?	rine)  priverine)  Imagery (E	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduc on Reduct k Surface kplain in R	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C6	Secondary Second	Dondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
YDROLO Wetland Hy Primary Indi Surface High Water Now Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table	rdrology Indicators cators (minimum of of or other (A1) atter Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver is Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	rine) Imagery (B	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct k Surface kplain in R nches): nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C6	Secondary Second	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLO Wetland Hy Primary Indi Surface High Water Note Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F	rdrology Indicators cators (minimum of of water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver is Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	rine) Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct k Surface kplain in R nches): nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C6	Secondary Second	Dondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
YDROLO Wetland Hy Primary Indi Surface High Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of of or other (A1) atter Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver is Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	rine) Imagery (E	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No Depth (ii No Depth (ii	ust (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct ck Surface eplain in R nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C6	Second Se	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indi Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca Describe Re	rdrology Indicators cators (minimum of of or other cators (minimum of other cator	rine) Imagery (E	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No Depth (ii No Depth (ii	ust (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct ck Surface eplain in R nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C6	Second Se	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of of or other cators (minimum of other cator	rine) Imagery (E	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No Depth (ii No Depth (ii	ust (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct ck Surface eplain in R nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C6	Second Se	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca) Describe Re	rdrology Indicators cators (minimum of of or other cators (minimum of other cator	rine) Imagery (E	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No Depth (ii No Depth (ii	ust (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct ck Surface eplain in R nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C6	Second Se	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca) Describe Re	rdrology Indicators cators (minimum of of or other cators (minimum of other cator	rine) Imagery (E	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No Depth (ii No Depth (ii	ust (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct ck Surface eplain in R nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C6	Second Se	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project		City/County	<sub>/:</sub> Sacrame	nto County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	24
Investigator(s): L. Burris, A. Sennet, A. Godinho		Section, To	wnship, Ra	nge: <u>Township 7N / Ra</u>	inge 7E / Section	11
Landform (hillslope, terrace, etc.): flatland				_		
Subregion (LRR):						
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for the						
Are Vegetation _ ✓ , Soil, or Hydrology				"Normal Circumstances" p		No 🗸
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		140
				•	,	
SUMMARY OF FINDINGS – Attach site map	showing	samplir	g point l	ocations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓  Yes  ✓  Yes  ✓	No		ne Sampled nin a Wetlar	_	No	
Grazing. Associated feature: SW-16						
VEGETATION – Use scientific names of pla	nts					
	Absolute	Dominan	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant S	pecies	
1				That Are OBL, FACW,	or FAC:2	(A)
2				Total Number of Domin		
3				Species Across All Stra	nta: <u>2</u>	(B)
4				Percent of Dominant Sp		0 (1.75)
Sapling/Shrub Stratum (Plot size:)	-	= Total Co	ivei	That Are OBL, FACW,	or FAC:10	0 (A/B)
1				Prevalence Index wor	ksheet:	
2				Total % Cover of:	Multiply	/ by:
3.				OBL species		
4				FACW species		
5				FAC species		
Herb Stratum (Plot size: 5m x 5m )		= Total Co	ver	FACU species		
1. Holocarpha virgata	5	N	NL	UPL species  Column Totals:		
2. Hordeum marinum	25	Υ	FAC	Column Totals.	(A)	(D)
3. Briza minor	5	N	FAC	Prevalence Index	= B/A =	
4. Festuca perennis	10	Y	FAC	Hydrophytic Vegetation	on Indicators:	
5				✓ Dominance Test is		
6				Prevalence Index is		
7		-	,	Morphological Ada data in Remarks	ptations (Provide : s or on a separate	
8				Problematic Hydro	•	,
Woody Vine Stratum (Plot size:)	43	= Total Co	ver			
1.				<sup>1</sup> Indicators of hydric soi		
2				be present, unless distu	arbed or problemat	IC.
		= Total Co	over	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum55	er of Biotic C	rust			s No	
Remarks:				ı		

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confirm	n the absence of ir	ndicators.)
Depth	Matrix			x Feature	S1	. 2		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-2	7.5 Y/R 3/2	93	5 YR 5/8		С	PL	silty clay	
				_				
				_	-		<u> </u>	
				_			<del></del>	
	-				· <del></del>			
1Turner C. Co	naantration D Dan	lation DM	Dadwood Motrix C	- <u> </u>	d or Coot		roing 21 continu	or DI Doro Lining M Motrice
			=Reduced Matrix, C: I LRRs, unless othe			ed Sand G		n: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
Histosol		able to all	Sandy Red		eu.)			(A9) (LRR C)
	pipedon (A2)		Stripped M					(A10) (LRR B)
Black His			Loamy Muc	` ,	ıl (F1)		Reduced V	, , ,
	n Sulfide (A4)		Loamy Gle					t Material (TF2)
	Layers (A5) ( <b>LRR</b> (	C)	Depleted M		(1 =)			lain in Remarks)
	ck (A9) ( <b>LRR D</b> )	-,	Redox Dari	, ,	(F6)			,
	Below Dark Surfac	e (A11)	Depleted D		. ,			
Thick Da	ark Surface (A12)		✓ Redox Dep	ressions (	F8)		3Indicators of hy	ydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland hydr	ology must be present,
	leyed Matrix (S4)						unless distur	bed or problematic.
	ayer (if present):							
Type: cla	У							
Depth (inc	ches): 2						Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:							l	
HYDROLO	GV.							
•	drology Indicators:							
-		one require	ed; check all that app					/ Indicators (2 or more required)
Surface	` '		Salt Crust	` '				Marks (B1) (Riverine)
	ter Table (A2)		Biotic Cru					nent Deposits (B2) (Riverine)
Saturation	` '		Aquatic In					Deposits (B3) (Riverine)
	arks (B1) ( <b>Nonriver</b>		Hydrogen					age Patterns (B10)
	t Deposits (B2) (No					_	ots (C3) Dry-S	eason Water Table (C2)
	oosits (B3) (Nonrive	rine)	Presence		•			sh Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	on Reducti	ion in Tille	ed Soils (Co	6) <u>√</u> Satura	ation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial	Imagery (E	37) Thin Mucl	Surface	(C7)		Shallo	ow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FAC-N	Neutral Test (D5)
Field Observ	vations:							
Surface Water	er Present? Y	'es	No <u>✓</u> Depth (in	ches):				
Water Table	Present? Y	'es	No <u>✓</u> Depth (in	ches):				
Saturation Pr	resent? Y	'es	No <u>✓</u> Depth (in	ches):		Wet	land Hydrology Pre	esent? Yes <u>√</u> No
(includes cap	illary fringe)							
Describe Red	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pr	evious in	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	Sacrame	nto County	Sampling Date: 10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 25
Investigator(s): L. Burris, A. Sennet, A. Godinho	;	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): flatland		Local relief	(concave, o	convex, none): concave	Slope (%):0
Subregion (LRR):	Lat: 38.4	4734797		Long: -121.1740923	Datum: WGS84
					ation: n/a
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation _ ✓ _, Soil, or Hydrology si					resent? Yes No _✓
Are Vegetation, Soil, or Hydrology na				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map s					
			g ponit it		- Important reatures, etc.
Hydrophytic Vegetation Present? Yes ✓ No		Is th	e Sampled	Area	
Hydric Soil Present? Yes _ ✓ No Wetland Hydrology Present? Yes _ ✓ No		with	in a Wetlan	nd? Yes <u>√</u>	No
Remarks:	<u>' — —                                   </u>				
Grazed. Associated feature: SW-17					
Grazed. Associated realtire. SW-17					
VEGETATION . Her asigniffic names of plants					
VEGETATION – Use scientific names of plant		Daminant	la dia atau	Daminana Taat want	also at
Tree Stratum (Plot size:)		Dominant Species?		Dominance Test work  Number of Dominant Sp	
1				That Are OBL, FACW, of	
2				Total Number of Domina	ant
3				Species Across All Stra	
4				Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, o	or FAC:100 (A/B)
1				Prevalence Index work	ksheet:
2				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4					x 2 =
5					x 3 =
Herb Stratum (Plot size: 5m x 5m )		= Total Co	ver	*	x 4 =
1. Festuca perennis	50	Υ	FAC		X 5 =
2. Hordeum marinum	25	Υ	FAC	Column Totals.	(A) (B)
3. Rumex crispus	5	N	FAC	Prevalence Index	= B/A =
4				Hydrophytic Vegetation	
5				✓ Dominance Test is	
6				Prevalence Index is	
7					ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8				Problematic Hydror	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		= Total Co	ver		
1					and wetland hydrology must
2				be present, unless distu	rbed or problematic.
		= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	rust			s No
Remarks:				<u> </u>	

Profile Desc Depth	cription: (Describe Matrix	to the de	oth needed to docu Red	ment the		or confirm	n the absence of	t indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 3/2	95	5 YR 5/8	5	С	M/PL	silty clay	
			-			-		
	-	_		_	_	<del> </del>		
	-							
	-	_	-	_				
¹Type: C=C	oncentration, D=De	oletion, RM	l=Reduced Matrix, C	S=Covere	ed or Coat	ed Sand G	rains. <sup>2</sup> l ocat	tion: PL=Pore Lining, M=Matrix.
			I LRRs, unless other			04 04.14 0		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		·		1 cm Mu	ck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M	. ,			·	ck (A10) ( <b>LRR B</b> )
Black H	istic (A3)		Loamy Mu	cky Miner	al (F1)		Reduced	d Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matri	x (F2)		Red Pare	ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N	. ,			Other (E	xplain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar		` '			
	d Below Dark Surfac	ce (A11)	Depleted D				31 11 /	
	ark Surface (A12)  Mucky Mineral (S1)		Redox Dep Vernal Poo		(F8)			hydrophytic vegetation and
	Gleyed Matrix (S4)		vemai Pod	)IS (F9)				rdrology must be present, turbed or problematic.
	Layer (if present):						uniess disi	turbed of problematic.
Type: cla								
Depth (in							Hydric Soil P	resent? Yes √ No
Remarks:	Cries). <u>-</u>						Tiyunc 3011 1	resent: res <u>v</u> No
IYDROLO								
-	drology Indicators							
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Second	ary Indicators (2 or more required)
	Water (A1)		Salt Crus	` ,				ter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sec	diment Deposits (B2) (Riverine)
Saturati	, ,		Aquatic Ir	nvertebrat	es (B13)		Drif	t Deposits (B3) (Riverine)
·	Marks (B1) (Nonrive	•	Hydrogen				·	inage Patterns (B10)
	nt Deposits (B2) (No					_		-Season Water Table (C2)
	posits (B3) ( <b>Nonrive</b>	erine)	Presence					yfish Burrows (C8)
	Soil Cracks (B6)					ed Soils (Ce	· —	uration Visible on Aerial Imagery (C9)
·	on Visible on Aerial	Imagery (E	, <u>—</u>		. ,		·	allow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in R	emarks)		FAC	C-Neutral Test (D5)
Field Obser			,					
Surface Wat			No <u>✓</u> Depth (ir					
Water Table			No <u>✓</u> Depth (ir					
Saturation P	resent?	Yes	No ✓ Depth (ir	nches):		Wetl	and Hydrology	Present? Yes No
	pillary fringe) corded Data (strear	n gauge, m	onitoring well, aerial	photos, p	revious in	spections).	if available:	
20001120110	ooraoa Bata (otroar	ii gaago, ii	iorniornig won, donar	priotoo, p		opootiono),	n avanabio.	
Remarks:								
rtomants.								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>r:</sub> <u>Sacrame</u> ı	nto County	Sampling Date:10/28/20	020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 26	
Investigator(s): L. Burris, A. Sennet, A. Godinho	;	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	ange 7E / Section 11	
Landform (hillslope, terrace, etc.): flatland		Local relie	f (concave, d	convex, none): none	Slope (%):	0
Subregion (LRR):	Lat: 38.4	17351354		Long: -121.174157	Datum: WGS84	1
					cation: n/a	
Are climatic / hydrologic conditions on the site typical for thi						
Are Vegetation _ ✓ _, Soil, or Hydrology					present? Yes No	✓
Are Vegetation, Soil, or Hydrology				eded, explain any answe		
						-1-
SUMMARY OF FINDINGS – Attach site map	snowing	Sampiin	ig point it		i, important leatures, e	∌tC.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes N  Remarks:	√ ol		ne Sampled nin a Wetlan		No	
Grazed. Associate feature: SW-17						
VEGETATION – Use scientific names of plar	nte.					-
VEGETATION – Ose scientific flames of plan	Absolute	Dominant	Indicator	Dominance Test work	rsheet:	
Tree Stratum (Plot size:) 1	% Cover	Species?	Status	Number of Dominant S That Are OBL, FACW,	pecies _	.)
2				Total Number of Domin Species Across All Stra		,)
4				Percent of Dominant S That Are OBL, FACW,	pecies or FAC:0 (A	/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index wor	ksheet:	
2				Total % Cover of:	Multiply by:	
3.				OBL species	x 1 =	
4				FACW species	x 2 =	
5					x 3 =	
Herb Stratum (Plot size: 5m x 5m )		= Total Co	over	· ·	x 4 =	
1. Holocarpha virgata	5	N	NL		x 5 =	D)
2. Bromus hordeaceus	55	Υ	FACU	Column Totals:	(A) (I	B)
3. Bromus diandrus	40	Υ	NL	Prevalence Index	c = B/A =	
4				Hydrophytic Vegetation	on Indicators:	
5				Dominance Test is		
6				Prevalence Index i		
7			·		aptations <sup>1</sup> (Provide supporting s or on a separate sheet)	J
8					phytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)		= Total Co	over			
1				<sup>1</sup> Indicators of hydric so be present, unless dist	il and wetland hydrology must urbed or problematic.	t
		= Total Co		Hydrophytic Vegetation	,	
	er of Biotic Cr	ust		Present? Ye	es No <u>√</u> _	
Remarks:						

Depth	Matrix			ox Features		. ,	_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 2.5/3	97	5 YR 5/8	3	<u>C</u>	PL	Silty clay	
					-			
			-					
1=		- Indian DA	A Dadward Matrix O			-1010	21 -	ation Di Bonditata M Matria
			I=Reduced Matrix, C I LRRs, unless other			ea Sana G		ration: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol		ouble to ul	Sandy Rec		ou.,			fuck (A9) (LRR C)
	pipedon (A2)		Stripped M					fuck (A10) (LRR B)
	istic (A3)		Loamy Mu		l (F1)			ed Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Pa	arent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N				Other (	Explain in Remarks)
	uck (A9) (LRR D)	(0.4.4)	Redox Dar		. ,			
	d Below Dark Surfac ark Surface (A12)	ce (A11)	Depleted D Redox Dep				3Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		0)			hydrology must be present,
	Gleyed Matrix (S4)			( )				isturbed or problematic.
Restrictive	Layer (if present):							
Type: cla	ау							
Depth (in	ches): 2						Hydric Soil	Present? Yes No✓
Remarks:							·	
HYDROLO	)GY							
	OGY drology Indicators	:						
Wetland Hy	drology Indicators		ed; check all that app	oly)			Secon	dary Indicators (2 or more required)
Wetland Hy Primary India	drology Indicators		ed; check all that app	•				ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
Wetland Hy Primary India Surface	drology Indicators cators (minimum of			t (B11)			W	
Wetland Hy Primary India Surface	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus	t (B11) ust (B12)	s (B13)		W	/ater Marks (B1) (Riverine)
Wetland Hy Primary India Surface High Wa Saturati	drology Indicators cators (minimum of Water (A1) ater Table (A2)	one require	Salt Crus	t (B11) ust (B12) nvertebrate	, ,		W S D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Wetland Hy Primary India Surface High Wa Saturati Water M	cators (minimum of Water (A1) ater Table (A2) on (A3)	one require	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe	dor (C1) res along	_	W S D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive	one require rine) onriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence	t (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe of Reduce	dor (C1) res along ed Iron (C	4)	W S D D ots (C3) D	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Primary India  Surface High Wa Saturati Water M Sedime Drift De Surface	cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive posits (B3) (Nonrive Soil Cracks (B6)	one require rine) onriverine) erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	t (B11) ust (B12) envertebrate a Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (Co on in Tille	4)	W S D D ots (C3) D C 6) S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Wetland Hy Primary India Surface High Wa Saturati Water N Sedime Drift De Surface Inundati	cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial	one require rine) porriverine) erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along ed Iron (Ca on in Tille C7)	4)	W S D ots (C3) D C 6) S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S	cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	one require rine) porriverine) erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) envertebrate a Sulfide Oo Rhizosphe of Reduce on Reduction	dor (C1) res along ed Iron (Ca on in Tille C7)	4)	W S D ots (C3) D C 6) S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	one require rine) onriverine; erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe of Reduce on Reducti k Surface ( splain in Re	dor (C1) res along d Iron (C- on in Tille C7) emarks)	4) d Soils (C	W S D ots (C3) D C 6) S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	one require rine) onriverine) erine) Imagery (E	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( splain in Re	dor (C1) res along d Iron (C- on in Tille C7) marks)	4) d Soils (C	W S D ots (C3) D C 6) S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	one require rine) onriverine) erine) Imagery (E	Salt Crusi Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide Oc Rhizosphe of Reduce on Reducti k Surface ( cplain in Re nches):	dor (C1) res along d Iron (C- on in Tille C7) emarks)	4) d Soils (C	W S D ots (C3) D C 6) S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India  Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Water Water Table Saturation P	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	one require rine) onriverine) erine) Imagery (E	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe of Reduce on Reducti k Surface ( cplain in Re	dor (C1) res along d Iron (C- on in Tille C7) emarks)	4) d Soils (C	W S D ots (C3) D C 6) S F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary India Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	rine)  ponriverine)  Imagery (E  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe n of Reduce on Reducti k Surface ( cplain in Re nches): nches): nches):	dor (C1) res along ed Iron (Coon in Tille C7) emarks)	4) d Soils (C	W   S   D   D   Ots (C3)   D   C   S   S   F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	rine)  ponriverine)  Imagery (E  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe n of Reduce on Reducti k Surface ( cplain in Re nches): nches): nches):	dor (C1) res along ed Iron (Coon in Tille C7) emarks)	4) d Soils (C	W   S   D   D   Ots (C3)   D   C   S   S   F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes cal	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	rine)  ponriverine)  Imagery (E  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe n of Reduce on Reducti k Surface ( cplain in Re nches): nches): nches):	dor (C1) res along ed Iron (Coon in Tille C7) emarks)	4) d Soils (C	W   S   D   D   Ots (C3)   D   C   S   S   F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Wate Water Table Saturation P (includes cal	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	rine)  ponriverine)  Imagery (E  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe n of Reduce on Reducti k Surface ( cplain in Re nches): nches): nches):	dor (C1) res along ed Iron (Coon in Tille C7) emarks)	4) d Soils (C	W   S   D   D   Ots (C3)   D   C   S   S   F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes cal	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	rine)  ponriverine)  Imagery (E  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe n of Reduce on Reducti k Surface ( cplain in Re nches): nches): nches):	dor (C1) res along ed Iron (Coon in Tille C7) emarks)	4) d Soils (C	W   S   D   D   Ots (C3)   D   C   S   S   F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes cal	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: ter Present? Present?	rine)  ponriverine)  Imagery (E  Yes  Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide Od Rhizosphe n of Reduce on Reducti k Surface ( cplain in Re nches): nches): nches):	dor (C1) res along ed Iron (Coon in Tille C7) emarks)	4) d Soils (C	W   S   D   D   Ots (C3)   D   C   S   S   F	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacrame	nto County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	27
Investigator(s): L. Burris, A. Sennet, A. Godinho		Section, To	wnship, Ra	nge: Township 7N / Ra	nge 7E / Section	n 11
Landform (hillslope, terrace, etc.): flatlands		Local relief	(concave,	convex, none): concave	Slo	pe (%):0
Subregion (LRR):	Lat: 38.4	47208982		Long: -121.1731105	Datu	m: WGS84
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3%				-		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology sig				'Normal Circumstances" p		No <b>√</b>
Are Vegetation, Soil, or Hydrology na				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map s						atures, etc.
Hydrophytic Vegetation Present?  Yes   ✓ No  Hydric Soil Present?  Yes   ✓ No		Is th	e Sampled			
Wetland Hydrology Present? Yes ✓ No Remarks:		with	in a Wetlar	nd? Yes <u>√</u>	No	-
Grazed. Associated feature: SW-18						
VEGETATION – Use scientific names of plants	S.					
	Absolute % Cover	Dominant Species?		Dominance Test work		
1				Number of Dominant Sport That Are OBL, FACW, or		(A)
2.						
3				Total Number of Domin Species Across All Stra		(B)
4				Percent of Dominant Sp	necies	
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW,		00 (A/B)
1				Prevalence Index wor	ksheet:	
2.				Total % Cover of:		y by:
3.				OBL species		
4				FACW species	x 2 =	
5				FAC species	x 3 =	
Hart Otation (Blacking 5m v 5m		= Total Co	ver	FACU species		
Herb Stratum (Plot size: 5m x 5m )  1. Holocarpha virgata	5	N	NL	UPL species		
2. Festuca perennis	15	Y	FAC	Column Totals:	(A)	(B)
3. Hordeum marinum	10	Υ	FAC	Prevalence Index	= B/A =	
4.				Hydrophytic Vegetation	on Indicators:	
5				✓ Dominance Test is		
6				Prevalence Index is		
7				Morphological Ada	ptations <sup>1</sup> (Provide s or on a separate	
8				Problematic Hydro	•	*
Woody Vine Stratum (Plot size:)	30	= Total Co	ver		in regetation	(=/\pi\lambda)
1				<sup>1</sup> Indicators of hydric soi be present, unless distu		
2		= Total Co		Hydrophytic		
		rust		Vegetation	s√ No	
Remarks:					· -	

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			ox Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 Y/R 4/1	90	5 YR 5/8	5	С	PL	silty clay	
			7.5 YR 2.5/1	5	D	PL		
		_						
	-	_						
<del></del>								
			M=Reduced Matrix, C			ted Sand G		ocation: PL=Pore Lining, M=Matrix.
		cable to a	II LRRs, unless othe		ted.)			rs for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,				Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					Muck (A10) (LRR B)
	istic (A3)		Loamy Mu					uced Vertic (F18)
	en Sulfide (A4)	<b>C</b> )	Loamy Gle					Parent Material (TF2)
	d Layers (A5) (LRR uck (A9) (LRR D)	C)	Depleted M Redox Dar				Othe	r (Explain in Remarks)
	d Below Dark Surfac	re (A11)	Nedox Dar		` '			
	ark Surface (A12)	50 (7111)	✓ Redox Dep				3Indicator	rs of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		(. 0)			d hydrology must be present,
	Gleyed Matrix (S4)		_	- ( - /				disturbed or problematic.
Restrictive	Layer (if present):							
Type: cla	ау							
Depth (in	ches): 3						Hydric Sc	oil Present? Yes ✓ No
Remarks:							,	
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Sec	ondary Indicators (2 or more required)
Surface	Water (A1)	•	Salt Crust	(B11)				Water Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
	on (A3)		Aquatic Ir		es (B13)			Drift Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b>	rine)	Hydrogen					Drainage Patterns (B10)
	nt Deposits (B2) (No	,			, ,	a Livina Ro		Dry-Season Water Table (C2)
	posits (B3) ( <b>Nonrive</b>		Presence			-		Crayfish Burrows (C8)
	Soil Cracks (B6)	,,,,,				ed Soils (C		Saturation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (I				00.00.00		Shallow Aquitard (D3)
	Stained Leaves (B9)	illiagery (i	Other (Ex					FAC-Neutral Test (D5)
Field Obser			Outlot (EX	piaiii iii ii	- Ciriarito)			The reduction rest (50)
Surface Wat		<b>/</b> 00	No ✓ Depth (ir	ochoc):				
Water Table			No ✓ Depth (ir					/
Saturation P	resent? pillary fringe)	Yes	No <u>✓</u> Depth (ir	nches):		Weti	land Hydrolo	gy Present? Yes No
		n gauge, n	nonitoring well, aerial	photos, p	revious in	spections),	if available:	
	(*****	3 3,	<b>3</b> , , , , , , , , , , , , , , , , , , ,	1/1		-,		
Remarks:								
Nemains.								

Project/Site: Sloughhouse Solar Energy Project	C	city/Count	<sub>ty:</sub> <u>Sacramer</u>	nto County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	28
Investigator(s): L. Burris, A. Sennet, A. Godinho	5	Section, T	ownship, Rar	nge: <u>Township 7N / Ra</u>	inge 7E / Section	n 11
Landform (hillslope, terrace, etc.): flatland	I	Local relie	ef (concave, c	convex, none): none	Slop	oe (%):0
Subregion (LRR): L						
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slo						
Are climatic / hydrologic conditions on the site typical for this tim						
Are Vegetation, Soil, or Hydrologysigni				Normal Circumstances" p		No <b>√</b>
Are Vegetation, Soil, or Hydrology natur				eded, explain any answe		
						oturos ete
SUMMARY OF FINDINGS – Attach site map sho	Jwing	Sampin	ng point ic	ocations, transects	, important re	atures, etc.
Hydrophytic Vegetation Present? Yes No		ls t	the Sampled	Area		
Hydric Soil Present? Yes _ ✓ No _		wit	hin a Wetlan	d? Yes	No <u>√</u>	•
Wetland Hydrology Present? Yes ✓ No Remarks:						
Grazing. Associated feature: SW 18.						
VEGETATION – Use scientific names of plants.		Damina	at la diantan	Daminanaa Taat wada	ah a at	
			nt Indicator  Status	Dominance Test work  Number of Dominant S		
1				That Are OBL, FACW,		(A)
2				Total Number of Domin	ant	
3				Species Across All Stra	ta: <u>1</u>	(B)
4				Percent of Dominant Sp	pecies	
Sapling/Shrub Stratum (Plot size:)		= Total C	Cover	That Are OBL, FACW,	or FAC: 0	(A/B)
1				Prevalence Index wor	ksheet:	
2				Total % Cover of:	Multiply	/ by:
3				OBL species	x 1 =	
4				FACW species		
5				FAC species		
Herb Stratum (Plot size: 5m x 5m		= Total C	Cover	FACU species		
1. Bromus hordeaceus	75	Υ	FACU	UPL species  Column Totals:	<u> </u>	
2. Holocarpha virgata	10	N	NL	Column Totals.	(A)	(В)
3. Festuca perennis	5	N	FAC	Prevalence Index	= B/A =	
4				Hydrophytic Vegetation		
5				Dominance Test is		
6				Prevalence Index is		
7				Morphological Ada data in Remarks	s or on a separate	
8	~ ~	Tatal O		Problematic Hydro	phytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)	30	= Total C	over			
1				<sup>1</sup> Indicators of hydric soi		
2				be present, unless distu	urbed or problemat	IIC.
_		= Total C	Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cover of	Biotic Cr	ust			s No	✓
Remarks:				<u> </u>		
10% unk. thatch						

Profile Description: (Describe to the dept				or commi	ii tile abseilt	e of indicators.)
Depth Matrix (inches) Color (moist) %	Color (moist)	ox Feature %	sType <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2 7.5 YR 2.5/3 97	5 YR 5/8	3	<u>C</u>	PL	Silly Clay	
		_				
		_				
· · · · · · · · · · · _ · · _ ·					-	<u> </u>
		_				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, C	S=Covere	d or Coate	d Sand G	rains. <sup>2</sup> L	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L						rs for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Red	lox (S5)			1 cm	Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped M	atrix (S6)			2 cm	Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mu					uced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gle		(F2)			Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted N		( <b>=</b> a)		Othe	r (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dar					
<ul><li>Depleted Below Dark Surface (A11)</li><li>Thick Dark Surface (A12)</li></ul>	Depleted D				<sup>3</sup> Indicator	rs of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Poo		10)			d hydrology must be present,
Sandy Gleyed Matrix (S4)	vernari ee	//o (1 0)				disturbed or problematic.
Restrictive Layer (if present):					T	
<sub>Type:</sub> clay						
Depth (inches): 2					Hydric Sc	oil Present? Yes No
Remarks:	<del></del>				1	
HYDROLOGY						
HYDROLOGY Wetland Hydrology Indicators:						
	check all that app	ly)			Sec	ondary Indicators (2 or more required)
Wetland Hydrology Indicators:	check all that app					ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required)		t (B11)			_	· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)	Salt Crus	t (B11) st (B12)	es (B13)			Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)	Salt Crus	t (B11) st (B12) overtebrate				Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crus Biotic Cru Aquatic Ir Hydroger	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roc	  	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger	t (B11) st (B12) evertebrate Sulfide O Rhizosphe	dor (C1) res along	-		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) res along ed Iron (C4	1)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reduce	dor (C1) res along ed Iron (C4 on in Tille	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reduct k Surface	dor (C1) res along ed Iron (C4 on in Tille	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reduct k Surface	dor (C1) res along ed Iron (C4 on in Tille	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate Sulfide O Rhizosphe of Reduct on Reduct k Surface plain in Re	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	t) d Soils (C6	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate Sulfide O Rhizosphe of Reduct on Reduct k Surface plain in Re	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	t) d Soils (Ce	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N	Salt Crus Biotic Cru Aquatic Ir Hydrogen ✓ Oxidized Presence Recent In Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide O Rhizosphe of Reduct on Reduct k Surface plain in Re nches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	4) d Soils (C6	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduct on Reduct k Surface liplain in Re linches): linches	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	4) d Soils (C6	ots (C3) 6) and Hydrolo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Saturation Present? Yes N	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduct on Reduct k Surface liplain in Re linches): linches	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	4) d Soils (C6	ots (C3) 6) and Hydrolo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduct on Reduct k Surface liplain in Re linches): linches	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	4) d Soils (C6	ots (C3) 6) and Hydrolo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduct on Reduct k Surface liplain in Re linches): linches	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	4) d Soils (C6	ots (C3) 6) and Hydrolo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduct on Reduct k Surface liplain in Re linches): linches	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	4) d Soils (C6	ots (C3) 6) and Hydrolo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduct on Reduct k Surface liplain in Re linches): linches	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	4) d Soils (C6	ots (C3) 6) and Hydrolo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduct on Reduct k Surface liplain in Re linches): linches	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	4) d Soils (C6	ots (C3) 6) and Hydrolo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project		City/County	: Sacrame	nto County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	29
Investigator(s): L. Burris, A. Sennet, A. Godinho		Section, To	wnship, Ra	nge: Township 7N / Ra	nge 7E / Section	n 11
Landform (hillslope, terrace, etc.): flatland		Local relief	(concave,	convex, none): concave	Slo	pe (%):0
Subregion (LRR):						
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3%				-		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology si				'Normal Circumstances" p		No <b>√</b>
Are Vegetation, Soil, or Hydrology na				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map s						atures, etc.
Hydrophytic Vegetation Present?  Yes  ✓ No  Hydric Soil Present?  Yes  ✓ No			e Sampled		,	
Wetland Hydrology Present? Yes   ✓ No  Remarks:		with	in a Wetlar	nd? Yes <u>√</u>	No	-
Grazing. Associated feature: SW-19						
VEGETATION – Use scientific names of plant	.e					
VEGETATION – Ose scientific fiames of plant	Absolute	Dominant	Indicator	Dominance Test work	sheet	
Tree Stratum (Plot size:)		Species?		Number of Dominant S	pecies	
1				That Are OBL, FACW,	or FAC: 2	(A)
2				Total Number of Domin		(D)
3				Species Across All Stra	ta: <u>2</u>	(B)
		= Total Co		Percent of Dominant Sp That Are OBL, FACW,		00 (A/B)
Sapling/Shrub Stratum (Plot size:)						(7/6)
1				Prevalence Index wor		
2				Total % Cover of:		
3				OBL species		
4				FAC species		
5		= Total Co	ver	FACU species		
Herb Stratum (Plot size: 5m x 5m )		1010100		UPL species		
1. Festuca perennis	15	Y	FAC	Column Totals:		
2. Holocarpha virgata	5	N	NL			
3. Hordeum marinum	15	Υ	<u>FAC</u>		= B/A =	
4. Rumex crispus		N	FAC	Hydrophytic Vegetation		
5				✓ Dominance Test is		
6				Prevalence Index is Morphological Ada		
7				data in Remarks	s or on a separate	sheet)
8	4.0	Total Ca		Problematic Hydro	phytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)		_ = Total Co	ver			
1				<sup>1</sup> Indicators of hydric soi be present, unless distu		
2		= Total Co	ver	Hydrophytic		
% Bare Ground in Herb Stratum60		rust		Vegetation Present? Yes	s_√ No	
Remarks:						

Profile Des	cription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confir	m the absence	of indicators.)
Depth	Matrix			x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 Y/R 4/1	90	5 YR 5/8	5	С	PL	silty clay	
	•		7.5 YR 2.5/1	5	D	PL		
-			7.5 11(2.5) 1					
			-			-		
-					-			
						-		
1Typo: C-C	Concentration, D=Dep	olotion DM		S_Covere	d or Coot		roino <sup>2</sup> l oc	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					ed Sand G		for Problematic Hydric Soils <sup>3</sup> :
		able to all			ieu.)			•
Histoso	` '		Sandy Red					Muck (A9) (LRR C)
	pipedon (A2)		Stripped M		. (=4)			Muck (A10) (LRR B)
	listic (A3)		Loamy Mud					ed Vertic (F18)
	en Sulfide (A4)	<b>0</b> \	Loamy Gle	-	, ,			arent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M				Other	(Explain in Remarks)
	uck (A9) (LRR D)	oo (A44)	Redox Dar		. ,			
	ed Below Dark Surfact ark Surface (A12)	æ (ATT)	Depleted D Redox Dep				3Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)		Kedox Dep		(ГО)			hydrology must be present,
	Gleyed Matrix (S4)		vernai Foo	15 (1-9)				isturbed or problematic.
	Layer (if present):						dilless d	isturbed of problematic.
Type: cla								
, , , <u> </u>								
	nches): 2		<del></del>				Hydric Soil	Present? Yes _ ✓ No
Remarks:								
	201							
HYDROLC								
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one require	d; check all that app	ly)			<u>Secon</u>	ndary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			W	/ater Marks (B1) (Riverine)
High W	ater Table (A2)		Biotic Cru	st (B12)			S	ediment Deposits (B2) (Riverine)
Saturati	ion (A3)		Aquatic In		es (B13)			rift Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b>	rine)	Hydrogen					rainage Patterns (B10)
	nt Deposits (B2) (No					Livina Ro		ry-Season Water Table (C2)
	posits (B3) (Nonrive		Presence		_	_		rayfish Burrows (C8)
	Soil Cracks (B6)	,,,,,,	Recent Iro		•	,		aturation Visible on Aerial Imagery (C9)
	, ,	Imagan, (E				u oolis (o	· —	
	ion Visible on Aerial	imagery (E			. ,			hallow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	piain in Re	emarks)		F	AC-Neutral Test (D5)
Field Obser			,					
Surface Wa			No _ ✓ Depth (in					
Water Table	Present?	/es	No <u>✓</u> Depth (in	iches):				
Saturation F		/es	No <u>✓</u> Depth (in	iches):		Wet	land Hydrolog	y Present? Yes <u>√</u> No
	pillary fringe)		9 2 11 2 - 1				20 21-1-1-	
Describe Re	ecorded Data (strean	n gauge, m	onitoring well, aerial	pnotos, p	revious ins	spections)	, if available:	
Remarks:								
1								

Project/Site: Sloughhouse Solar Energy Project		City/Cou	<sub>ınty:</sub> Sacrame	ento County	_ Sampling Date:	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point:	30
Investigator(s): L. Burris, A. Sennet, A. Godinho		Section,	Township, Ra	ange: <u>Township 7N / R</u>	ange 7E / Sectio	n 11
Landform (hillslope, terrace, etc.): flatland		Local re	elief (concave,	convex, none): none	Slc	ppe (%):0
Subregion (LRR):						
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3%						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, soil, or Hydrology signature.				"Normal Circumstances"		No <b>√</b>
Are Vegetation, Soil, or Hydrology na				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site map s						eatures, etc.
Hydrophytic Vegetation Present? Yes No	✓		a tha Cammia	J A		
Hydric Soil Present? Yes <u>✓</u> No			s the Sampled vithin a Wetla		No <u></u> ✓	
Wetland Hydrology Present? Yes <u>√</u> No			vitiliii a vvetia	iiu: 165		
Remarks:						
Associated feature: SW-19. Grazed.						
VEGETATION – Use scientific names of plant	S.					
Troo Stratum (Diet aize:			ant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size:)  1			es? Status	Number of Dominant : That Are OBL, FACW		O (A)
2.					-	(11)
3.				Total Number of Domi Species Across All Str		1 (B)
4						
		= Total	Cover	Percent of Dominant S That Are OBL, FACW	, or FAC:	0 (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wo		
1				Total % Cover of:		lv bv
2 3				OBL species		
4				FACW species		
5.				FAC species		
				FACU species	x 4 =	
Herb Stratum (Plot size: 5m x 5m )	00	V	EACH	UPL species	x 5 =	
Bromus hordeaceus     Holocarpha virgata	<u>90</u> 5	Y N	FACU NL	Column Totals:	(A)	(B)
- Dradiana alagana	1	N N		Prevalence Inde	ex = B/A =	
Broulded elegans   4				Hydrophytic Vegetat		
5				Dominance Test i		
6.				Prevalence Index		
7					aptations <sup>1</sup> (Provide	
8					ks or on a separate	*
W 1 1/2 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	96	= Total	Cover	Problematic Hydr	opnytic vegetation	(Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric so	oil and wetland hvc	Irology must
1 2				be present, unless dis		
				Hydrophytic		
% Bare Ground in Herb Stratum4 % Cover		-		Vegetation Present? Y	ios No	./
Remarks:	OI BIOLIC C	iusi		Fresent?	es No _	<u> </u>
ixemans.						
I						

		to the dep	oth needed to docu			or confirm	n the absence o	f indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-2	7.5 YR 2.5/3	97	5 YR 5/8	3	С	PL	Silty clay		
			<u>-</u>		-	- <u> </u>			
						·			
					-				
			=Reduced Matrix, C			ed Sand G		tion: PL=Pore Lining, M=Matrix.	
-		cable to all	LRRs, unless other		ed.)			or Problematic Hydric Soils <sup>3</sup> :	
Histosol	` '		Sandy Red	. ,			<del></del>	ick (A40) (LRR C)	
Histic Epipedon (A2)  Black Histic (A3)  Stripped N  Loamy Mu					al (F1)			ick (A10) ( <b>LRR B</b> )	
	en Sulfide (A4)			<ul><li>Loamy Mucky Mineral (F1)</li><li>Loamy Gleyed Matrix (F2)</li></ul>				Reduced Vertic (F18) Red Parent Material (TF2)	
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N		( -)			explain in Remarks)	
	uck (A9) ( <b>LRR D</b> )	- /	Redox Dar		(F6)			,	
	d Below Dark Surfac	e (A11)	Depleted D	Dark Surfac	ce (F7)				
Thick Dark Surface (A12) Redox Depressions (F8)							f hydrophytic vegetation and		
	Mucky Mineral (S1)		Vernal Poo	ols (F9)			wetland hydrology must be present,		
	Bleyed Matrix (S4)  Layer (if present):						unless dis	turbed or problematic.	
Type: Cla									
							Hydria Sail B	tracent? Vac / No	
Depth (in Remarks:	ches): <u>Z</u>						nyaric Soil P	resent? Yes <u>√</u> No	
HYDROLO	GY								
Wetland Hy	drology Indicators:	:							
Primary India	cators (minimum of o	one require	d; check all that app	oly)			Second	ary Indicators (2 or more required)	
Surface	Water (A1)		Salt Crus	t (B11)			Wa	ter Marks (B1) (Riverine)	
High Water Table (A2) Biotic Crust (B12)						Sec	diment Deposits (B2) (Riverine)		
Saturation (A3) Aquatic Invertebrates (B13)						Drif	ft Deposits (B3) (Riverine)		
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)							Dra	ninage Patterns (B10)	
Sediment Deposits (B2) (Nonriverine)							y-Season Water Table (C2)		
Drift Dep	posits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C	4)	Cra	ayfish Burrows (C8)	
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C						ed Soils (Co	6) Sat	turation Visible on Aerial Imagery (C9)	
	on Visible on Aerial	Imagery (B	Thin Muc	k Surface	(C7)		Sha	allow Aquitard (D3)	
Water-S	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FA	C-Neutral Test (D5)	
Field Obser			,						
Surface Wat			No <u>✓</u> Depth (ir						
Water Table			No <u>√</u> Depth (ir			l l			
Saturation Present? Yes No ✓ _ Depth (inches): Wetl (includes capillary fringe)						land Hydrology	Present? Yes No		
		n gauge, m	onitoring well, aerial	photos, pr	revious ins	spections),	if available:		
Remarks:									

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date: 10/28/2020					
Applicant/Owner: D.E. Shaw Renewable Investments	State: <u>CA</u> Sampling	Point: 31				
Investigator(s): L. Burris, A. Sennett, and A. Godinho	Section, Township, Range: Township 7N / Range 7E / Section 11					
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave, convex, none): None Slope (%): 0					
Subregion (LRR): Lat: 3	3.46937803 Long: -121.1744927 Datum: WGS84					
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slopes						
Are climatic / hydrologic conditions on the site typical for this time of						
Are Vegetation, Soil, or Hydrology significar		es No ✓				
Are Vegetation, Soil, or Hydrology naturally						
		•				
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations, transects, importa	int reatures, etc.				
Hydrophytic Vegetation Present? Yes No✓						
Hydric Soil Present? Yes _ ✓ No	within a Wetland? Yes No.	✓				
Wetland Hydrology Present? Yes No _✓ Remarks:						
Associated Feature: Upland 02a Minor depression in grassland. No change in Veg	form unlands					
	Torrit upianus					
VEGETATION – Use scientific names of plants.						
Absolu   Tree Stratum (Plot size:)	vor Chanina? Status					
1	Number of Dominant Species	0 (A)				
2						
3		(B)				
4	Percent of Dominant Species					
Sapling/Shrub Stratum (Plot size:)	= Total Cover That Are OBL, FACW, or FAC:	0 (A/B)				
1	Prevalence Index worksheet:					
2		Multiply by:				
3						
4.						
5	FAC species x 3	=				
	= Total Cover FACU species x 4					
Herb Stratum (Plot size: 5m x 5 m )  1. Bromus hordeaceus 65	UPL species x 5					
	Y NL Column Totals: (A)	(B)				
	N FACU Prevalence Index = B/A = _					
4. Hordeum marinum 5						
5. Avena barbata 2						
6	Prevalence Index is ≤3.0 <sup>1</sup>					
7	Morphological Adaptations <sup>1</sup> (P					
8	data in Remarks or on a se  Problematic Hydrophytic Vege					
	= Total Cover Toblematic Hydrophytic vege	tation (Explain)				
Woody Vine Stratum (Plot size:)  1	<sup>1</sup> Indicators of hydric soil and wetlar	nd hydrology must				
2	be present unless disturbed or pro					
	= Total Cover <b>Hydrophytic</b>					
% Bare Ground in Herb Stratum 0	Vegetation	No. ✓				
Remarks:	11000111 100					
	maling					
Bare ground due to severe cattle grazing and tra	IIIhiilik					

SOIL		Samplin	g Point: 31
Profile Description: (Describe to the depth need	ded to document the indicator or cor	firm the absence of indicators.)	
Depth Matrix	Redox Features	,	
	or (moist) % Type <sup>1</sup> Loc	Texture Re	marks
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduc Hydric Soil Indicators: (Applicable to all LRRs,		d Grains. <sup>2</sup> Location: PL=Pore L	
			•
Histosol (A1) Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR E	
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)	<b>3</b> )
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF	2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remark	
	Redox Dark Surface (F6)		
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	3	
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic veg	•
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be unless disturbed or proble	
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):		uriless disturbed or problet	maiic.
Type: <u>Clav</u>			
Depth (inches): 2		Hydric Soil Present? Yes	✓ No
Remarks:		Tryunc 3011 resent: Tes	<u> </u>
YDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; chec		Secondary Indicators (2	
	_ Salt Crust (B11)	Water Marks (B1) (	
	Biotic Crust (B12)	Sediment Deposits	
	_ Aquatic Invertebrates (B13)	Drift Deposits (B3)	
	Hydrogen Sulfide Odor (C1)	Drainage Patterns (	
	_ Oxidized Rhizospheres along Living		
	_ Presence of Reduced Iron (C4)	Crayfish Burrows (C	
	Recent Iron Reduction in Tilled Soils		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	_ Thin Muck Surface (C7) _ Other (Explain in Remarks)	Shallow Aquitard (E FAC-Neutral Test (I	
Field Observations:	_ Guer (Explain in Nemarks)	i AO-iveutiai Test (i	D0)
	Depth (inches):		
		Votland Hydrology Present? Ve-	No. /
Saturation Present? Yes No _ <u>√</u> (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring		Vetland Hydrology Present? Yes	INU <u>V</u>

Remarks:

Project/Site: Sloughhouse Solar Energy Project		City/Count	<sub>y:</sub> Sacrame	nto County	_ Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investmen	ts			State: CA	_ Sampling Point:	32
Investigator(s): L. Burris, A. Sennet, A. Godinho		Section, T	ownship, Ra	nge: <u>Township 7N / F</u>	Range 7E / Section	n 11
Landform (hillslope, terrace, etc.): hillslope		Local relie	ef (concave,	convex, none): none	Slo	pe (%): 0.5
Subregion (LRR):						
Soil Map Unit Name: Peters clay, 1 - 8% slopes						
Are climatic / hydrologic conditions on the site typical fo						
Are Vegetation _ ✓ _, Soil, or Hydrology				Normal Circumstances'		No <b>√</b>
Are Vegetation, Soil, or Hydrology				eded, explain any answ		
SUMMARY OF FINDINGS – Attach site m						atures, etc.
	No <u>√</u>	Ť		<u> </u>	•	<u> </u>
	No <u>√</u>		he Sampled		/	
	No	wit	hin a Wetlar	nd? Yes	No <u>√</u>	-
Remarks:						
Grazing. Associated feature: SW-20						
VEGETATION – Use scientific names of p	lants					
TEGETATION COS SCIONANIO NAMIOS OF P	Absolute	Dominan	t Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot size:)	% Cover			Number of Dominant	Species	
1				That Are OBL, FACW	, or FAC:	(A)
2				Total Number of Dom		
3				Species Across All St	rata:1	(B)
4				Percent of Dominant	Species	
Sapling/Shrub Stratum (Plot size:)		= Total C	ovei	That Are OBL, FACW	, or FAC:	(A/B)
1				Prevalence Index wo		
2				Total % Cover of:		
3				OBL species		
4				FACW species		
5				FAC species		
Herb Stratum (Plot size: 5m x 5m		= Total C	ovei	UPL species		
1. Bromus hordeaceus	85	Y	FACU	Column Totals:		
2. Hordeum murinum		N	FACU			
3. Holocarpha virgata		N	NL		ex = B/A =	
4				Hydrophytic Vegeta		
5				Dominance Test Prevalence Index		
6					laptations <sup>1</sup> (Provide	supporting
7 8				data in Remar	ks or on a separate	sheet)
0.		= Total C	over	Problematic Hydr	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)				1		
1				<sup>1</sup> Indicators of hydric s be present, unless dis		
2					, , , , , , , , , , , , , , , , , , ,	
				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 0	over of Biotic Cr	ust	0	Present? Y	'es No	✓
Remarks:						

Depth	Matrix		Rede	ox Feature	es		_	_
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	_Loc²	Texture	Remarks
0-3	7.5 Y/R 4/1	90	5 YR 5/8	_ 5	<u>C</u>	PL	silty clay	
			7.5 YR 2.5/1	5	D	PL		
			-		-			
			-		-			
	-		-		-	· <del></del>		
					_			
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM	l=Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	rains. <sup>2</sup> Locat	ion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to al	I LRRs, unless other	rwise no	ted.)		Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Red					ck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M					ck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu					Vertic (F18)
	en Sulfide (A4)	0)	Loamy Gle					ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N				Other (E	xplain in Remarks)
	uck (A9) ( <b>LRR D</b> ) d Below Dark Surfa	ca (Δ11)	Redox Dar Depleted D		, ,			
	ark Surface (A12)	CC (A11)	Redox Dep				<sup>3</sup> Indicators of	hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		(. 0)			drology must be present,
	Gleyed Matrix (S4)			,				urbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (in	iches):						Hydric Soil P	resent? Yes No
Remarks:								
IYDROLC								
-	drology Indicators							
		one require	ed; check all that app	ly)			<u>Seconda</u>	ary Indicators (2 or more required)
	Water (A1)		Salt Crus	t (B11)				ter Marks (B1) (Riverine)
High W	ater Table (A2)		Biotic Cru	ıst (B12)			Sed	liment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic Ir		, ,		Drift	t Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide C	dor (C1)		Dra	inage Patterns (B10)
Sedime	nt Deposits (B2) (No	onriverine)			_	•	ots (C3) Dry-	-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					yfish Burrows (C8)
	Soil Cracks (B6)		Recent Ire	on Reduct	ion in Tille	d Soils (C		uration Visible on Aerial Imagery (C9)
Inundat	ion Visible on Aerial	Imagery (E	· —		. ,		Sha	ıllow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (Ex	plain in R	emarks)		FAC	C-Neutral Test (D5)
Field Obser	rvations:							
Surface Wa	ter Present?	Yes	No <u>✓</u> Depth (ir	nches):				
Water Table	Present?	Yes	No <u>√</u> Depth (ir	nches):				
Saturation F		Yes	No <u>✓</u> Depth (ir	nches):		Wet	land Hydrology F	Present? Yes <u>√</u> No
	pillary fringe)						if a vallable.	
Describe Re	ecorded Data (strear	n gauge, m	onitoring well, aerial	pnotos, p	revious in	spections)	, if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	oject/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: 10/27/2020					
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 33	
Investigator(s): A, Sennett, A. Godinho	;	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11	
Landform (hillslope, terrace, etc.): Flatland		Local relief	(concave, o	convex, none): Concave	Slope (%):0	
Subregion (LRR):	_ Lat: <u>38.</u> 4	47552313		Long: <u>-121.1743244</u>	Datum: WGS84	
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology si	gnificantly of	disturbed?	Are "	Normal Circumstances" p	oresent? Yes No _✓	
Are Vegetation, Soil, or Hydrology na	aturally prol	blematic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map s	showing	samplin	g point lo	ocations, transects	, important features, etc.	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓ No  Yes  ✓ No		e Sampled in a Wetlan		No		
Associated feature: SW-02. Grazed						
VEGETATION – Use scientific names of plant						
VEGETATION 636 Scientino númeo or plant		Dominant	Indicator	Dominance Test work	sheet:	
1	% Cover	Species?	Status	Number of Dominant Sp That Are OBL, FACW, o		
2				Total Number of Domini Species Across All Stra		
4				Percent of Dominant Sp That Are OBL, FACW, o	pecies or FAC:100 (A/B)	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worl	kshoot:	
1					Multiply by:	
2					x 1 =	
4					x 2 =	
5					x 3 =	
		= Total Co			x 4 =	
Herb Stratum (Plot size: 1m x 1m )				· ·	x 5 =	
1. Hordeum marinum	60	Υ	FAC		(A) (B)	
2. Polypogon monspeliensis	5	N	FACW			
3. Rumex dentatus	5	N	FACW		= B/A =	
4. Holocarpha virgate		N	<u>UPL</u>	Hydrophytic Vegetation		
5. Bromus hordeaceus		<u>N</u>	FACU	✓ Dominance Test is		
6				Prevalence Index is		
7					ptations <sup>1</sup> (Provide supporting s or on a separate sheet)	
8					phytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)	90	= Total Co	ver			
1				<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must urbed or problematic.	
		= Total Co	ver	Hydrophytic		
% Bare Ground in Herb Stratum 10 % Cover	of Biotic Cr			Vegetation Present? Yes	s✓ No	
Remarks:						
Change in vegetation cover/ composition						

Depth	Matrix		h needed to docu	x Feature		or commi	i tile absence	of maleators.)
(inches) Co	olor (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2 7.5 Y	′R 3/2	93	5 vr 4/6	7	С	PL	Silty clay	
			- , , -					
				_				
				_				
				_				
1							. 2.	
<sup>1</sup> Type: C=Concente  Hydric Soil Indicat						d Sand Gr		cation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
-	ors: (Applic	able to all L			ea.)			•
Histosol (A1) Histic Epipedor	2 (42)		Sandy Red Stripped M					Muck (A9) ( <b>LRR C</b> ) Muck (A10) ( <b>LRR B</b> )
Black Histic (A:			Loamy Mu		l (F1)		·	ced Vertic (F18)
Hydrogen Sulfi	,		Loamy Gle					rarent Material (TF2)
Stratified Layer		<b>C</b> )	Depleted M		()			(Explain in Remarks)
1 cm Muck (A9		,	✓ Redox Dar		(F6)		<u></u> -	,
Depleted Below	v Dark Surfac	e (A11)	Depleted D	ark Surfac	e (F7)			
Thick Dark Sur			Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky N			Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed							unless o	disturbed or problematic.
Restrictive Layer (								
Type: <u>Hardpaı</u>								
Depth (inches):	2						Hydric Soi	Present? Yes No
Remarks:								
HYDROLOGY								
Wetland Hydrolog	y Indicators:							
Primary Indicators (	_		check all that app	lv)			Seco	ndary Indicators (2 or more required)
Surface Water		no roquirou,	Salt Crust					Vater Marks (B1) (Riverine)
High Water Tal	` ,		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
	. ,		Aquatic Ir		c (B13)		_ `	
Saturation (A3)			/ (qualio ii				Г	rift Denosits (R3) ( <b>Riverine</b> )
Saturation (A3)	31) (Nonriver	ine)	Hydrogen					Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
Water Marks (E			Hydrogen	Sulfide O	dor (C1)	Livina Roc	[	Prainage Patterns (B10)
Water Marks (E	osits (B2) ( <b>No</b>	nriverine)	✓ Oxidized	Sulfide Oo Rhizosphe	dor (C1) res along	_	Cots (C3) C	Orainage Patterns (B10) Ory-Season Water Table (C2)
<ul><li>Water Marks (E</li><li>Sediment Depo</li><li>Drift Deposits (</li></ul>	osits (B2) ( <b>No</b> B3) ( <b>Nonrive</b>	nriverine)	✓ Oxidized Presence	Sulfide Oo Rhizosphe of Reduce	dor (C1) res along ed Iron (C4	1)	C	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
<ul><li>Water Marks (E</li><li>Sediment Depo</li><li>Drift Deposits (</li><li>✓ Surface Soil Cr</li></ul>	osits (B2) ( <b>No</b> r B3) ( <b>Nonrive</b> racks (B6)	nriverine) rine)	✓ Oxidized  Presence Recent Iro	Sulfide Oo Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (C <sup>2</sup> on in Tille	1)	Cots (C3) C C S) S	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Caturation Visible on Aerial Imagery (C9)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi	osits (B2) ( <b>No</b> r B3) ( <b>Nonrive</b> racks (B6) ble on Aerial I	nriverine) rine)	✓ Oxidized  — Presence  — Recent Ird  — Thin Mucl	Sulfide Od Rhizosphe of Reduce on Reducti c Surface (	dor (C1) res along ed Iron (C4 on in Tillee C7)	1)	Cots (C3) C C S) S	Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained	osits (B2) ( <b>No</b> riversecks (B6) ble on Aerial I Leaves (B9)	nriverine) rine)	✓ Oxidized  Presence Recent Iro	Sulfide Od Rhizosphe of Reduce on Reducti c Surface (	dor (C1) res along ed Iron (C4 on in Tillee C7)	1)	Cots (C3) C C S) S	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Caturation Visible on Aerial Imagery (C9)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations	posits (B2) (Nor B3) (Nonriver racks (B6) ble on Aerial I Leaves (B9)	nriverine) rine) magery (B7)	✓ Oxidized  — Presence  — Recent Ird  — Thin Mucl  — Other (Ex	Sulfide Oo Rhizosphe of Reduce on Reducti c Surface ( plain in Re	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) emarks)	t) d Soils (C6	Cots (C3) C C S) S	Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations Surface Water Pres	osits (B2) (Noriver B3) (Nonriver racks (B6) ble on Aerial I Leaves (B9) s:	nriverine) rine) magery (B7)	✓ Oxidized  — Presence — Recent Ird  — Thin Mucl — Other (Ex	Sulfide Od Rhizosphe of Reduction Reduction Surface ( plain in Reduction	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	t) d Soils (C6	Cots (C3) C C S) S	Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations Surface Water Press Water Table Press	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y	nriverine) rine) magery (B7) es N es N	✓ Oxidized  — Presence — Recent Iro  — Thin Mucl — Other (Ex	Sulfide Or Rhizosphe of Reduction Reduction Surface ( plain in Reduction plain in Reduction plain in Reduction	dor (C1) res along ed Iron (C4 on in Tiller C7) emarks)	I) d Soils (C6	ots (C3) [ C S) S S	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations Surface Water Press Water Table Preser Saturation Present	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y  Y  Y	nriverine) rine) magery (B7) es N es N	✓ Oxidized  — Presence — Recent Ird  — Thin Mucl — Other (Ex	Sulfide Or Rhizosphe of Reduction Reduction Surface ( plain in Reduction plain in Reduction plain in Reduction	dor (C1) res along ed Iron (C4 on in Tiller C7) emarks)	I) d Soils (C6	ots (C3) [ C S) S S	Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations Surface Water Press Water Table Press	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y ont? Y oringe)	es Nes N	✓ Oxidized  — Presence — Recent Irr	Sulfide Or Rhizosphe of Reduce on Reduction Surface (plain in Reduction Reduction Surface):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) emarks)	d Soils (C6	Cots (C3) C C5) S S F	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations Surface Water Prese Water Table Presert Saturation Present (includes capillary f	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y ont? Y oringe)	es Nes N	✓ Oxidized  — Presence — Recent Irr	Sulfide Or Rhizosphe of Reduce on Reduction Surface (plain in Reduction Reduction Surface):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) emarks)	d Soils (C6	Cots (C3) C C5) S S F	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations Surface Water Prese Water Table Presert Saturation Present (includes capillary f	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y ont? Y oringe)	es Nes N	✓ Oxidized  — Presence — Recent Irr	Sulfide Or Rhizosphe of Reduce on Reduction Surface (plain in Reduction Reduction Surface):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) emarks)	d Soils (C6	Cots (C3) C C5) S S F	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observation: Surface Water Prese Water Table Preser Saturation Present (includes capillary f Describe Recorded	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y ont? Y oringe)	es Nes N	✓ Oxidized  — Presence — Recent Irr	Sulfide Or Rhizosphe of Reduce on Reduction Surface (plain in Reduction Reduction Surface):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) emarks)	d Soils (C6	Cots (C3) C C5) S S F	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations Surface Water Prese Water Table Presers Saturation Present's (includes capillary for Describe Recorded)	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y ont? Y oringe)	es Nes N	✓ Oxidized  — Presence — Recent Irr	Sulfide Or Rhizosphe of Reduce on Reduction Surface (plain in Reduction Reduction Surface):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) emarks)	d Soils (C6	Cots (C3) C C5) S S F	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observation: Surface Water Prese Water Table Presert Saturation Present (includes capillary f Describe Recorded	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y ont? Y oringe)	es Nes N	✓ Oxidized  — Presence — Recent Irr	Sulfide Or Rhizosphe of Reduce on Reduction Surface (plain in Reduction Reduction Surface):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) emarks)	d Soils (C6	Cots (C3) C C5) S S F	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water Marks (E Sediment Depo Drift Deposits ( ✓ Surface Soil Cr Inundation Visi Water-Stained Field Observations Surface Water Prese Water Table Presers Saturation Present's (includes capillary for Describe Recorded)	posits (B2) (Nonriversite (B6)) (Nonriversite (B6)) ble on Aerial I Leaves (B9)  s: sent? Y ont? Y oringe)	es Nes N	✓ Oxidized  — Presence — Recent Irr	Sulfide Or Rhizosphe of Reduce on Reduction Surface (plain in Reduction Reduction Surface):	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) emarks)	d Soils (C6	Cots (C3) C C5) S S F	Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County:	Sacramento	o County	_ Sampling Date: _	10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investmen	ts		State: CA	_ Sampling Point: _	34
Investigator(s): A, Sennett, A. Godinho, L. Burris	Section, To	wnship, Range	e: Township 7N / F	Range 7E / Section	າ 11
Landform (hillslope, terrace, etc.): Flatland	Local relief	(concave, cor	nvex, none): None	Slop	pe (%):0
Subregion (LRR):					
Soil Map Unit Name: Galt clay, 2 - 5% slopes					
Are climatic / hydrologic conditions on the site typical fo					
Are Vegetation, Soil, or Hydrology			ormal Circumstances		No <b>√</b>
Are Vegetation, Soil, or Hydrology			led, explain any answ		
					-4
SUMMARY OF FINDINGS – Attach site m	ap snowing sampling	g point loc	ations, transect	s, important re	atures, etc.
	No ✓ Is the	e Sampled A	rea		
	No <u>√</u> withi	in a Wetland?		No <u></u> ✓	_
Wetland Hydrology Present? Yes	_ No <u> </u>				-
Associated feature: SW02b					
Grazed					
VEGETATION – Use scientific names of p					
Tree Stratum (Plot size:)	Absolute Dominant <u>% Cover Species?</u>	Status	Dominance Test wo		
1		'	Number of Dominant Γhat Are OBL, FACW		(A)
2.			Fotal Number of Dom		
3			Species Across All St		(B)
4			Percent of Dominant	Species	
Sapling/Shrub Stratum (Plot size:)	= Total Co		That Are OBL, FACW		(A/B)
1		F	Prevalence Index wo	orksheet:	
2			Total % Cover of:	. Multiply	y by:
3.			OBL species	x 1 =	
4		F	FACW species	x 2 =	
5			AC species		
Herb Stratum (Plot size: 1m x 1m )	= Total Co		FACU species		
1. Bromus hordeaceus	75Y	FACIL	JPL species	<u> </u>	
2. Holocarpha			Column Totals:	(A)	(B)
3.			Prevalence Inde	ex = B/A =	
4			Hydrophytic Vegetat		
5			Dominance Test		
6			Prevalence Index		
7				laptations <sup>1</sup> (Provide ks or on a separate	
8			Problematic Hydr	•	
Woody Vine Stratum (Plot size:)	= Total Co	ver			
1			Indicators of hydric s		
2			pe present, unless dis	sturbed or problema	IIC.
	= Total Co	ver H	∃ydrophytic ∕egetation		
% Bare Ground in Herb Stratum0 % C	over of Biotic Crust0	F		'es No	✓
Remarks:		l .			

SOIL	Sampling Point:	34
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indi	cators.)	

Depth (inches)	Matrix Color (moist)	%	Color (moist)	K Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
1	7.6 YR 3/1	100						
	-							
				<del></del>				
							. 2.	
			=Reduced Matrix, CS			d Sand Gra		ation: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
-		cable to all	LRRs, unless other		u.)			•
Histoso	pi (A1) pipedon (A2)		Sandy Redo	, ,				uck (A9) (LRR C)
	listic (A3)		Stripped Ma Loamy Muc		(F1)			uck (A10) ( <b>LRR B</b> ) d Vertic (F18)
	en Sulfide (A4)		Loamy Gley					rent Material (TF2)
	ed Layers (A5) ( <b>LRR</b>	C)	Depleted Ma		/			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	Redox Dark		6)			,
Deplete	ed Below Dark Surfa	ce (A11)	Depleted Da	ırk Surface	(F7)			
	ark Surface (A12)		Redox Depr	essions (F	3)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pools	s (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	sturbed or problematic.
	Layer (if present):							
Type: <u>H</u>			<del></del>					
Depth (in	nches): <u>1</u>						Hydric Soil F	Present? Yes No _ ✓
Remarks:								
YDROLO	)GV							
	drology Indicators	·						
-			d; check all that apply	<i>(</i> )			Second	dary Indicators (2 or more required)
		one required						
	Water (A1)		Salt Crust	` '				ater Marks (B1) (Riverine)
_ ~	ater Table (A2)		Biotic Crus	` '	(D40)			diment Deposits (B2) (Riverine)
Saturati	, ,		Aquatic Inv					ift Deposits (B3) (Riverine)
	Marks (B1) (Nonrive		Hydrogen			Listan Dant		ainage Patterns (B10)
	ent Deposits (B2) (No		Oxidized R		_	_		y-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence o				· · · · · · · · · · · · · · · · · · ·	ayfish Burrows (C8)
	Soil Cracks (B6)	Imagan, (D				d Soils (C6)		turation Visible on Aerial Imagery (C9
	ion Visible on Aerial							allow Aquitard (D3)
water-s	Stained Leaves (B9)		Other (Exp	iain in Ken	iarks)		FA	.C-Neutral Test (D5)
		Vaa	No / Donth (inc	,h.a.).				
			No <u>√</u> Depth (inc					
Water Table			No <u>✓</u> Depth (inc					
Saturation P		Yes	No <u>✓</u> Depth (inc	:hes):		_   Wetla	nd Hydrology	Present? Yes No✓
	ipillary fringe) ecorded Data (strear	m gauge, mo	onitoring well, aerial p	hotos, prev	vious ins	pections), i	f available:	
	(1111)	3 3,	, J . , ,	,,,		, , ,		
Remarks:								
ixemaiks.								

Project/Site: Sloughhouse Solar Energy Project	oject/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: _ 10/27/2020					
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 35	
Investigator(s): A, Sennett, A. Godinho	;	Section, To	ownship, Ra	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11	
Landform (hillslope, terrace, etc.): Flatland		Local relie	f (concave,	convex, none): concave	Slope (%):0	
Subregion (LRR):						
Soil Map Unit Name: Galt clay, 2 - 5% slopes				NWI classific	ation: n/a	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	<b>✓</b> No _	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrologysi	gnificantly	disturbed?	Are "	'Normal Circumstances" p	oresent? Yes No _✓	
Are Vegetation, Soil, or Hydrologyn	aturally prol	blematic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	showing	samplin	g point l	ocations, transects	, important features, etc.	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓ No  Yes  ✓ No  No  Remarks:			ne Sampled nin a Wetlar		No	
Associated feature: SW04. Grazed						
VEGETATION – Use scientific names of plant	·e					
VEGETATION OSC SCICILITIO HARRIES OF Plant		Dominant	t Indicator	Dominance Test work	sheet:	
	% Cover			Number of Dominant Sp	pecies	
1				That Are OBL, FACW, o	or FAC:1 (A)	
2				Total Number of Domin		
4				Species Across All Stra		
	0			Percent of Dominant Sp That Are OBL, FACW, of	pecies or FAC:50 (A/B)	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor		
1					Multiply by:	
2					x 1 =0	
4					x 2 =0	
5					x 3 =180	
·	0			FACU species 0		
Herb Stratum (Plot size: 1m x 1m )				UPL species 15		
1. Hordeum marinum	55	Y	FAC	Column Totals: 75	5 (A) <u>255</u> (B)	
2. Holocarpha virgate					2.4	
3. Phalaris paradoxa					= B/A = <u>3.4</u>	
4				Hydrophytic Vegetation		
5				Dominance Test is		
6				Prevalence Index is	s ≤3.0 ptations¹ (Provide supporting	
7					s or on a separate sheet)	
8	75			✓ Problematic Hydrop	phytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)		= 10ta100	7001			
1			·	<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.	
2	0		over	Hydrophytic		
% Bare Ground in Herb Stratum25 % Cover				Vegetation	s√ No	
Remarks:	o. Diotic Ol	<u>.</u>		. 1000111: 16:		
		ا احمما				
Grazed- dry season has led to encroachmen	nt by up	iaria pia	ni specie	:5		

Depth	cription: (Describe Matrix	to the dep		ox Feature		or comm	ii tiie abseiit	ce of malcators.)
(inches)	Color (moist)	%	Color (moist)	<u>ox reature</u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/2	90	5 yr 4/6				Silty clay	
0 3	7.5 11(3)2		<u>3 yı 470</u>				Sirry ciay	- · <del></del>
	-							
							-	
-							-	
							-	
								_
	oncentration, D=Dep					ed Sand G	rains. <sup>2</sup> L	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	erwise not	ted.)		Indicato	rs for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Sandy Red	dox (S5)			1 cm	n Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	latrix (S6)			2 cm	n Muck (A10) (LRR B)
	istic (A3)		Loamy Mu	-	. ,			uced Vertic (F18)
	en Sulfide (A4)		Loamy Gle					Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N	, ,			Othe	er (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	(* ( )	<u>✓</u> Redox Dai		. ,			
	d Below Dark Surfac	ce (A11)	Depleted [				31 12 1 -	as afterdament of a constation and
	ark Surface (A12) Mucky Mineral (S1)		Redox Dep		(۲8)			rs of hydrophytic vegetation and nd hydrology must be present,
	Gleyed Matrix (S4)		vernai Poo	JIS (F9)				s disturbed or problematic.
	Layer (if present):						unicss	s disturbed of problematic.
	lardpan							
	iches): 3						Hydric Sc	oil Present? Yes No
Remarks:	. <u>5</u>		<del></del>				riyuric 30	Un Fresent: Tes _ Y NO
HYDROLO	)GY							
	drology Indicators:	:						
-	cators (minimum of		d: check all that app	olv)			Sec	condary Indicators (2 or more required)
	Water (A1)	ono roquiro	Salt Crus				<u> </u>	Water Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
Saturati	` ,		Aquatic II		e (R13)			Drift Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydroger					Drainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b>					Living Ro		Dry-Season Water Table (C2)
	posits (B3) (Nonrive		Presence		_	_		Crayfish Burrows (C8)
	Soil Cracks (B6)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Recent Ir		,	,		Saturation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B				u 00110 (01		Shallow Aquitard (D3)
	Stained Leaves (B9)	inagory (B	Other (E)		` '			FAC-Neutral Test (D5)
Field Obser			0.1101 (2)	tpiairi iirit	omanto,			1710 11041141 1001 (20)
Surface Wa		/as	No <u>✓</u> Depth (ii	nches).				
Water Table			No <u>✓</u> Depth (ii					
Saturation F (includes ca	resent? \ pillary fringe)	res	No <u>✓</u> Depth (ii	nches):		_   Wet	land Hydrold	ogy Present? Yes No
	ecorded Data (stream	n gauge, mo	onitoring well, aerial	photos, p	revious ins	pections),	, if available:	
Remarks:								
Pock-ma	rks							
	-							

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacra	amento County	Sampling Date: 10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investmen	nts	State: CA	Sampling Point: 36
Investigator(s): A, Sennett, A. Godinho	Section, Township	, Range: Township 7N / Ra	ange 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland	Local relief (conca	ave, convex, none): <u>none</u>	Slope (%):0
Subregion (LRR):			
Soil Map Unit Name: Galt clay, 2 - 5% slopes		=	
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			present? Yes No
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site m			
	, ,	,	· ·
	No √ Is the Sam		,
	No ✓ within a W	etland? Yes	No <u>√</u>
Remarks:	L .		
Associated feature: SW04			
VEGETATION – Use scientific names of p	nlants		
VEGETATION 030 30101111110 Haines of p	Absolute Dominant Indica	tor Dominance Test work	rsheet:
Tree Stratum (Plot size:)	% Cover Species? Statu		
1			
2		Total Number of Domir	nant
3		Species Across All Stra	ata: <u>2</u> (B)
4		Percent of Dominant S	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,	or FAC: (A/B)
1		Prevalence Index wor	ksheet:
2		Total % Cover of:	Multiply by:
3			x 1 =
4		<del></del> '	x 2 =
5			x 3 =
Herb Stratum (Plot size: 1m x 1m )	= Total Cover	· ·	x 4 = x 5 =
1. Holocarpha virgate	<u>25</u> Y <u>UP</u>	ı	(A) (B)
2. Bromus hordeaceus	<u>75</u> <u>Y</u> <u>FAC</u>	<u>U</u>	
3			c = B/A =
4		Hydrophytic Vegetati	
5			
6			is ≤3.0° aptations¹ (Provide supporting
7			is or on a separate sheet)
8	= Total Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover		
1			il and wetland hydrology must
2		be present, unless dist	urbed or problematic.
	= Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % C	Cover of Biotic Crust0		es No <u>√</u>
Remarks:		I	

Depth	Matrix			x Feature	S			,
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
1	7.5 YR 3/1	100						
		<del> </del>						
	-				-			
				-				
17		nlation DM	Dadward Matrix Co				21 1	ion. Di Done Lining M Metric
			Reduced Matrix, CS			ed Sand G		ion: PL=Pore Lining, M=Matrix.  r Problematic Hydric Soils <sup>3</sup> :
Histoso		ouble to un	Sandy Red		cu.,			ck (A9) (LRR C)
	pipedon (A2)		Stripped Ma					ck (A10) ( <b>LRR B</b> )
· <del></del>	istic (A3)		Loamy Muc		l (F1)			Vertic (F18)
	en Sulfide (A4)		Loamy Gley					ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M		` '			rplain in Remarks)
1 cm M	uck (A9) ( <b>LRR D</b> )		Redox Dark	Surface	(F6)			
Deplete	d Below Dark Surfa	ce (A11)	Depleted D	ark Surfac	e (F7)			
_	ark Surface (A12)		Redox Dep		F8)			hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)			•	drology must be present,
	Gleyed Matrix (S4)						unless dist	urbed or problematic.
	Layer (if present):							
Type: <u>H</u>								
Depth (in	iches): <u>1</u>						Hydric Soil Pr	resent? Yes No _✓
Remarks:								
Same as	SW01a							
Same as	30010							
HYDROLO	)GY							
	drology Indicators	:						
-			d; check all that appl	v)			Seconda	ary Indicators (2 or more required)
	-	one required		•				· · · · · · · · · · · · · · · · · · ·
	Water (A1)		Salt Crust	` '				er Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus		o (D12)			iment Deposits (B2) (Riverine)
Saturati	, ,	\	Aquatic In		` '			Deposits (B3) (Riverine)
	Marks (B1) (Nonrive		Hydrogen			Livina Da		nage Patterns (B10)
	nt Deposits (B2) (No		Oxidized F		_	_		Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					yfish Burrows (C8)
	Soil Cracks (B6)	lana a a a m . (D	Recent Iro			a Solis (Ci		uration Visible on Aerial Imagery (C9)
· ·	ion Visible on Aerial		. —		. ,			llow Aquitard (D3)
	Stained Leaves (B9)		Other (Exp	Diain in Re	emarks)	1	FAC	C-Neutral Test (D5)
Field Obser								
Surface Wa			No <u>✓</u> Depth (in					
Water Table			No <u>√</u> Depth (in					
Saturation P		Yes	No <u>✓</u> Depth (in	ches):		Wetl	land Hydrology P	Present? Yes No✓
	pillary fringe) ecorded Data (strear	m dalide mo	onitoring well, aerial	photos pr	evious ins	pections)	if available.	
DC3011DC TXC	corded Data (Streat	ii gaage, iiic	mitoring well, aerial	priotos, pr	CVIOUS IIIC	pections),	ii availabic.	
Domostica								
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	Cit	y/County: Sacran	nento County	_ Sampling Date: _	10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investmen	ts		State: CA	_ Sampling Point: _	37
Investigator(s): A, Sennett and A. Godinho	Se	ction, Township,	Range: Township 7N / R	ange 7E / Section	11
Landform (hillslope, terrace, etc.): Flatlands	Lo	cal relief (concav	e, convex, none): None	Slop	oe (%):0
Subregion (LRR):					
Soil Map Unit Name: Galt clay, 2 - 5% slopes					
Are climatic / hydrologic conditions on the site typical fo					
Are Vegetation _ ✓ _, Soil ✓ _, or Hydrology			re "Normal Circumstances"		No ✓
Are Vegetation, Soil, or Hydrology			needed, explain any answ		
SUMMARY OF FINDINGS – Attach site m					atures, etc.
	. No <u>√</u>		·	<u> </u>	·
	No	Is the Sampl		/	
	No	within a Wet	land? Yes	No <u>√</u>	
Associated feature: SWS-01					
VEGETATION – Use scientific names of p	lants				
VEGETATION OSC SCIENCING Hames of p		Dominant Indicato	or Dominance Test wor	ksheet:	
Tree Stratum (Plot size:)		pecies? Status			
1			_ That Are OBL, FACW	, or FAC: 0	(A)
2			Total Number of Domi		
3			Species Across All Str	ata: <u>2</u>	(B)
4			Percent of Dominant S That Are OBL, FACW		(A/D)
Sapling/Shrub Stratum (Plot size:)					(A/B)
1					
2			Total % Cover of:		
3			OBL species		
4.			FAC species		
J	=		FACU species		
Herb Stratum (Plot size: 1m x 1m )		rotal Covol	UPL species		
1. Bromus diandrus			Column Totals:		
2. Holocarpha virgate				D/A	
3. <u>Brodiaea elegans</u>			Hydrophytic Vegetat	x = B/A =	
4			Dominance Test i		
5			Prevalence Index		
6 7			<del>-</del>	aptations <sup>1</sup> (Provide s	supporting
8			data in Remark	ks or on a separate	sheet)
		Total Cover	Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)			4		
1			Indicators of hydric so be present, unless dis		
2			Hydrophytic	· ·	
0/ Page Craying in Hogh Stratum 0			Vegetation	aa Na	./
% Bare Ground in Herb Stratum 0 % C	over or blotte crus	<u> </u>	Present? Y	es No	<u> </u>
Inditial No.					

SOIL

Sampling Point: 37

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redo	x Features	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	, Remarks
0-3	7.5 YR 4/1	93	5 YR 4/6	7	С	PL	Silty Clay	
	, . <u></u>							
	-	<u> </u>						-
								-
								-
		<u> </u>		- ——				
								_
			=Reduced Matrix, CS			d Sand Gr		ocation: PL=Pore Lining, M=Matrix.
		licable to al	LRRs, unless other		ea.)			s for Problematic Hydric Soils <sup>3</sup> :
Histosol	pipedon (A2)		Sandy Red Stripped Ma	. ,				Muck (A9) (LRR C) Muck (A10) (LRR B)
	listic (A3)		Loamy Muc		l (F1)			uced Vertic (F18)
	en Sulfide (A4)		Loamy Gley	-	. ,			Parent Material (TF2)
	d Layers (A5) ( <b>LRF</b>	R C)	Depleted M		,			r (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dark	,	,			
	ed Below Dark Surfa	ace (A11)	Depleted D				2	
	ark Surface (A12)		Redox Dep		-8)			s of hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pool	s (F9)				d hydrology must be present, disturbed or problematic.
	Layer (if present):						uniess	disturbed of problematic.
Type: Ha								
Depth (in			<del></del>				Hydric So	il Present? Yes √ No
Remarks:	,							
IYDROLO Wetland Hv	OGY rdrology Indicator	s:						
-			ed; check all that appl	v)			Seco	ondary Indicators (2 or more required)
	Water (A1)		Salt Crust					Water Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus					Sediment Deposits (B2) (Riverine)
Saturati	` ,		<del></del>	quatic Invertebrates (B13)				Drift Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonriv</b>	erine)	Hydrogen					Drainage Patterns (B10)
	nt Deposits (B2) (N		· · · · · ·			Living Roc		Dry-Season Water Table (C2)
Drift De	posits (B3) (Nonriv	verine)	Presence	of Reduce	d Iron (C4	1)		Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	on in Tille	d Soils (C6	S)	Saturation Visible on Aerial Imagery (C9)
Inundati	ion Visible on Aeria	al Imagery (E	37) Thin Muck	Surface (	C7)			Shallow Aquitard (D3)
Water-S	Stained Leaves (B9	)	Other (Exp	olain in Re	marks)		_	FAC-Neutral Test (D5)
Field Obser	rvations:							
Surface Wat	ter Present?		No <u>✓</u> Depth (in			1		
Water Table	Present?		No <u>✓</u> Depth (in					
Saturation P		Yes	No ✓ Depth (in	ches):		Wetl	and Hydrolo	gy Present? Yes No
	pillary fringe) ecorded Data (strea	ım gauge, m	onitoring well, aerial	photos, pro	evious ins	pections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	C	City/County	Sacrame	nto County	Sampling Date:10/27/2020	
Applicant/Owner: D.E. Shaw Renewable Investments State: CA Sampling Point: 38						
Investigator(s): A, Sennett, A. Godinho		Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11	
Landform (hillslope, terrace, etc.): Flatland		Local relief	(concave, o	convex, none): Concave	Slope (%):0	
Subregion (LRR):	_ Lat: 38.4	17502266		Long: <u>-121.1745821</u>	Datum: WGS84	
Soil Map Unit Name: Galt clay, 2 - 5% slopes				NWI classific	ation: n/a	
Are climatic / hydrologic conditions on the site typical for this	s time of yea	r? Yes	<b>✓</b> No _	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrologysi	ignificantly c	disturbed?	Are "	Normal Circumstances" p	oresent? Yes No✓	
Are Vegetation, Soil, or Hydrologyn	aturally prob	olematic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point lo	ocations, transects	, important features, etc.	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓ No  Yes  ✓ No  No  Remarks:	0		e Sampled in a Wetlan		No	
Associated feature: SW-05. Grazed						
VEGETATION – Use scientific names of plant	 ts.					
	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
	% Cover			Number of Dominant Sp		
1				That Are OBL, FACW, o	or FAC:1 (A)	
2				Total Number of Domini Species Across All Stra		
4					. , ,	
	0			Percent of Dominant Sp That Are OBL, FACW, of	or FAC: <u>100</u> (A/B)	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worl		
1					Multiply by:	
2					x 1 =	
3					x 2 =	
5					x 3 =	
J		= Total Co		·	x 4 =	
Herb Stratum (Plot size: 1m x 1m )		= 10tai 00	VCI	·	x 5 =	
1. Hordeum marinum	60	Y	FAC	·	(A)(B)	
2. Holocarpha virgate	10	N	UPL		(,	
3. Rumex dentatus		N	FACW	Prevalence Index	= B/A =	
4				Hydrophytic Vegetation	on Indicators:	
5				✓ Dominance Test is		
6				Prevalence Index is		
7					ptations <sup>1</sup> (Provide supporting	
8					s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain)	
Mandy Vine Stratum (Diet size)	75	= Total Co	ver	i Toblematic Hydrop	mytic vegetation (Explain)	
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must urbed or problematic.	
2				Hydrophytic	·	
% Bare Ground in Herb Stratum 25 % Cover	0 of Biotic Cr			Vegetation	s✓ No	
Remarks:				1		
Change in vegetation cover/ composition						
Change in regetation cover/ composition						

Depth	Matrix			ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/2	90	5 yr 4/6	10	С	PL	Silty clay	
			· -				<del>-</del>	
				_				
			· ·					
	-		-					
	-	_			-			
1- 0.0							21	
			I=Reduced Matrix, C I LRRs, unless othe			ed Sand G		ation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histoso		cable to al	Sandy Red		cu.,			uck (A9) (LRR C)
	pipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
· <del></del>	istic (A3)		Loamy Mu		al (F1)			ed Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M		,			Explain in Remarks)
1 cm M	uck (A9) ( <b>LRR D</b> )		Redox Dar	k Surface	(F6)			
Deplete	d Below Dark Surfa	ce (A11)	Depleted D	ark Surfac	ce (F7)			
	ark Surface (A12)		Redox Dep		F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				nydrology must be present,
	Gleyed Matrix (S4)						unless di	sturbed or problematic.
	Layer (if present):							
Type: H								o v. / N
• •	ches): <u>4</u>						Hydric Soil	Present? Yes <u>√</u> No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators	):						
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Secon	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	t (B11)			W	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Se	ediment Deposits (B2) (Riverine)
Saturati			Aquatic Ir	vertebrate	es (B13)		Dr	rift Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		Dr	rainage Patterns (B10)
Sedime	nt Deposits (B2) (No	onriverine	✓ Oxidized	Rhizosphe	res along	Living Ro	ots (C3) Dr	ry-Season Water Table (C2)
Drift De	posits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C	4)	Cr	ayfish Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Iro	on Reducti	ion in Tille	d Soils (C	6) Sa	aturation Visible on Aerial Imagery (C9)
Inundat	on Visible on Aerial	Imagery (E	37) Thin Mucl	k Surface	(C7)		Sh	nallow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)		FA	AC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	Yes	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation F			No ✓ Depth (ir				land Hydrology	Present? Yes <u>√</u> No
(includes ca	pillary fringe)							100
Describe Re	corded Data (strear	m gauge, m	nonitoring well, aerial	photos, pr	evious ins	spections)	, if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacram	iento County	Sampling Date: 10/27/2020		
Applicant/Owner: D.E. Shaw Renewable Investmen	nts	State: CA	Sampling Point: 39		
Investigator(s): A, Sennett, A. Godinho	Section, Township, R	Range: <u>Township 7N / Ra</u>	ange 7E / Section 11		
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave	e, convex, none): none Slope (%): 0			
Subregion (LRR):					
Soil Map Unit Name: Galt clay, 2 - 5% slopes					
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology			present? Yes No		
Are Vegetation, Soil, or Hydrology		needed, explain any answe			
SUMMARY OF FINDINGS – Attach site m					
	,	<u> </u>			
	No √ Is the Sample		/		
	No ✓ within a Wetl	and? Yes	No <u>√</u> _		
Remarks:	,	-			
Associated feature: SW06					
VEGETATION – Use scientific names of p	plants.				
	Absolute Dominant Indicator		sheet:		
Tree Stratum (Plot size:)	% Cover Species? Status	- Number of Dominant S			
1		_ That Are OBL, FACW,	or FAC:0 (A)		
2 3		Total Number of Domir			
4		_ Species Across All Stra	ata: <u>2</u> (B)		
	0 = Total Cover	Percent of Dominant S	pecies 0 (A/B)		
Sapling/Shrub Stratum (Plot size:)					
1		_ Prevalence Index wor	Ksheet:  Multiply by:		
2		- I	x 1 =		
3 4			x 2 =		
5		<del>-</del>	x 3 =		
	= Total Cover	<del>-</del>	x 4 =		
Herb Stratum (Plot size: 1m x 1m )		UPL species	x 5 =		
1. Holocarpha virgate			(A) (B)		
2. Bromus hordeaceus			x = B/A =		
3		Hydrophytic Vegetation			
4         5		Dominance Test is			
6		Prevalence Index i			
7.			ptations <sup>1</sup> (Provide supporting		
8		data in Remark	s or on a separate sheet)		
W 1 1/2 0/1 / DI 1	= Total Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)		
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric so	il and wetland hydrology must		
1 2		be present, unless dist			
	0 = Total Cover	Hydrophytic			
% Bare Ground in Herb Stratum0 % (		Vegetation Present? Ye	es No <u>√</u> _		
Remarks:	OOVER OF DIOLIC OTUSE	Tresent: 16	NO		
Tomano.					
I .					

Profile Desc Depth	cription: (Describe Matrix	to the dep	oth needed to docu	ment the ox Feature		or confirm	n the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/2	99	5 yr 4/6	1	С	PL	Silty clay	
					-			
					-			
-								
						· ——		
-						·		
			I=Reduced Matrix, C I LRRs, unless othe			ed Sand G		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol		cable to all	Sandy Rec		.eu.)			ck (A9) (LRR C)
	pipedon (A2)		Stripped M	. ,			· · · · · · · · · · · · · · · · · · ·	ck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu		al (F1)			Vertic (F18)
	en Sulfide (A4)		Loamy Gle					ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N	Matrix (F3)			Other (E	xplain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar		, ,			
	d Below Dark Surfac	ce (A11)	Depleted D				31	i haradaan ka ahii ahaa ahaadi ahaa ahaad
	ark Surface (A12)  Mucky Mineral (S1)		Redox Dep Vernal Poo		(F8)			hydrophytic vegetation and hydrology must be present,
	Gleyed Matrix (S4)		vernari ee	)IS (I S)				turbed or problematic.
	Layer (if present):							·
Type: H	ardpan							
Depth (in	ches): <u>4</u>						Hydric Soil P	resent? Yes No✓
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary India	cators (minimum of	one require	ed; check all that app	ly)			Second	ary Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	t (B11)			Wa	ter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sec	diment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic Ir		` ,		Drif	t Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b> i		Hydrogen				· <del></del>	inage Patterns (B10)
	nt Deposits (B2) (No				-	_		-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence		,	,		yfish Burrows (C8)
	Soil Cracks (B6) on Visible on Aerial	Imagan, (E				ed Soils (Ce		uration Visible on Aerial Imagery (C9) allow Aquitard (D3)
	stained Leaves (B9)	iiiageiy (E	· —	k Surface plain in Re				C-Neutral Test (D5)
Field Obser	` '		Outer (Ex	.piaiii iii ikk	Jiliaiks)			5 Neutral Test (B5)
Surface Wat		/es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				and Hydrology	Present? Yes No✓
(includes car	oillary fringe)						-	riesent: resNo
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pr	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	nto County	Sampling Date:10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 40
Investigator(s): A, Sennett, A. Godinho	Section, Township, Rai	nge: Township 7N / Ra	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave, o	convex, none): none	Slope (%):1
Subregion (LRR):	Lat: 38.47442741	Long: -121.1753773	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes			
Are climatic / hydrologic conditions on the site typical for thi			
Are Vegetation, Soil, or Hydrologys			resent? Yes No
Are Vegetation, Soil, or Hydrology r		eded, explain any answer	
SUMMARY OF FINDINGS – Attach site map			
SOMMANT OF FINDINGS - Attach site map		Juanons, transects	, important reatures, etc.
Hydrophytic Vegetation Present? Yes N		Area	
Hydric Soil Present?  Yes N	, within a wetian	nd? Yes	No <u>√</u>
Wetland Hydrology Present? Yes N Remarks:	lo <u> </u>		
Associated feature: SW-07			
VEGETATION – Use scientific names of plan			
Tree Stratum (Plot size:)	Absolute Dominant Indicator <a href="Mailto:Normalizetr">Normalizetr</a> <a href="Mailto:Normalizetr">Normalize</a>	Dominance Test works	
1		Number of Dominant Sp That Are OBL, FACW, of	pecies or FAC:0 (A)
2.			
3		Total Number of Domina Species Across All Strat	
4		Percent of Dominant Sp	necies
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover		or FAC:0 (A/B)
1		Prevalence Index work	ksheet:
2			Multiply by:
3.			x 1 =
4		FACW species	x 2 =
5		FAC species	x 3 =
Harb Charter (District) 1m v 1m	e Total Cover	-	x 4 =
Herb Stratum (Plot size: 1m x 1m )  1. Bromus hordeaceus	75 Y FACU		x 5 =
Holocarpha virgate		Column Totals:	(A) (B)
3		Prevalence Index	= B/A =
4		Hydrophytic Vegetatio	on Indicators:
5		Dominance Test is	
6		Prevalence Index is	
7		Morphological Adap	ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8			phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	100 = Total Cover	,,,,,,	(
1			and wetland hydrology must
2		be present, unless distu	irbed or problematic.
	e Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum 0	r of Biotic Crust0	Vegetation Present? Yes	s No <u></u>
Remarks:		<u>I</u>	
thatch			

(inches)	Color (moist)	%	Color (moist)	%	S Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2			5 yr 4/6			PL	Silty clay	
<u> </u>	7.5 11(3)2		<u> </u>				Sirry ciay	
Type: C=C	Concentration, D=Dep	oletion, RM=	Reduced Matrix, C	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic							for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Sandy Red	dox (S5)			1 cm N	Muck (A9) (LRR C)
	pipedon (A2)		Stripped M				2 cm N	fluck (A10) (LRR B)
	listic (A3)			cky Minera				ed Vertic (F18)
	en Sulfide (A4)	0)		eyed Matrix	(F2)		<u> </u>	arent Material (TF2)
	d Layers (A5) (LRR uck (A9) (LRR D)	<b>C</b> )	Depleted N	viatrix (F3) rk Surface (	E6)		Other	(Explain in Remarks)
	ed Below Dark Surfac	ce (A11)		Dark Surface	. ,			
	ark Surface (A12)	(* (* )		pressions (	. ,		<sup>3</sup> Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		,			hydrology must be present,
	Gleyed Matrix (S4)						unless d	isturbed or problematic.
	Layer (if present):							
Туре: <u>Н</u>								,
Depth (in	nches): <u>2</u>						Hydric Soil	Present? Yes No✓
YDROLO	OGY							
	OGY rdrology Indicators:	:						
Vetland Hy			l; check all that app	oly)			Secor	ndary Indicators (2 or more required)
Vetland Hy Primary Indi Surface	rdrology Indicators: cators (minimum of o water (A1)		l; check all that app Salt Crus				W	/ater Marks (B1) (Riverine)
Vetland Hy Primary Indi Surface	rdrology Indicators:			t (B11)			W	
Netland Hy Primary Indi Surface	rdrology Indicators: cators (minimum of of Water (A1) ater Table (A2)		Salt Crus	t (B11) ust (B12)	s (B13)		W S	/ater Marks (B1) (Riverine)
Wetland Hy Primary Indi Surface High Wa Saturati Water N	cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver	one required	Salt Crus Biotic Cru Aquatic II Hydroger	ust (B11) ust (B12) nvertebrate n Sulfide Od	dor (C1)		W S D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Wetland Hy Primary Indi Surface High Water N Sedime	cators (minimum of of water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver	one required rine) onriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe	dor (C1) res along	-	W S D ots (C3) D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Wetland Hy Primary Indi Surface High W: Saturati Water N Sedime Drift De	rdrology Indicators: cators (minimum of of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (No	one required rine) onriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce	dor (C1) res along d Iron (C4	4)	W S D D ots (C3) D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Wetland Hy Primary Indi Surface High Water Mater	rdrology Indicators: cators (minimum of of each of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Soil Cracks (B6)	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir	t (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti	dor (C1) res along ed Iron (C4 on in Tille	4)	W S D D D S C C S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Surface Inundat	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (Nonriver e Soil Cracks (B6) ion Visible on Aerial	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface (	dor (C1) res along d Iron (C4 on in Tilled C7)	4)	W S D D D C C C S) S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Surface Inundat Water-S	cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver on the Deposits (B2) (Nonriver on the Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti	dor (C1) res along d Iron (C4 on in Tilled C7)	4)	W S D D D C C C S) S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser	cators (minimum of of e Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver on Deposits (B2) (Nonriver on County (B3) (Nonriver on County (B3) (Nonriver on County (B4) (Nonriver on County (B4	rine) errine) errine) Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C C S) S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obset	cators (minimum of of water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver on Deposits (B2) (Nonriver on Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	rine) erine) Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti ek Surface ( xplain in Re	dor (C1) res along d Iron (C <sup>2</sup> on in Tilled C7) marks)	d Soils (Ce	W S D D D C C C S) S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	rine) Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	H) H Soils (C6	W S D ots (C3) D C S) S F.	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indi Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B3) (Nonriver of the Water (B4)) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	rine) Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	H) H Soils (C6	W S D ots (C3) D C S) S F.	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Primary Indi Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	rine)  prriverine)  Imagery (B7  //es   //es   //es	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C S S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indi Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (Nonriver int Deposits (B3) (Nonriver int Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine)  prriverine)  Imagery (B7  //es   //es   //es	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C S S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (Nonriver int Deposits (B3) (Nonriver int Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine)  prriverine)  Imagery (B7  //es   //es   //es	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C S S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F (includes ca	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (Nonriver int Deposits (B3) (Nonriver int Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine)  prriverine)  Imagery (B7  //es   //es   //es	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C S S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F (includes ca	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (Nonriver int Deposits (B3) (Nonriver int Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine)  prriverine)  Imagery (B7  //es   //es   //es	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C S S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F includes ca	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (Nonriver int Deposits (B3) (Nonriver int Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine)  prriverine)  Imagery (B7  //es   //es   //es	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C S S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F includes ca	rdrology Indicators: cators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (Nonriver int Deposits (B3) (Nonriver int Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine)  prriverine)  Imagery (B7  //es   //es   //es	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C S S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	ento County	Sampling Date: 10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investmen	nts	State: CA	Sampling Point: 41
Investigator(s): A, Sennett, A. Godinho	Section, Township, Ra	<sub>ange:</sub> Township 7N / Ra	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave,	Slope (%):0	
Subregion (LRR): C	Lat: 38.47417176	Long: -121.1746816	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes		-	
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			present? Yes No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site m	ap snowing sampling point		, important leatures, etc.
	_ No✓ Is the Sample	d Area	
	No within a Wetla		No <u>√</u>
	_ No		
Remarks:			
Upland point to 9 (SW-08)			
VEGETATION – Use scientific names of p	olants.		
Tree Stratum (Plot size:)	Absolute Dominant Indicator	Dominance Test work	
1	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant S That Are OBL, FACW,	
2			
3		Total Number of Domin Species Across All Stra	
4.			
	= Total Cover	Percent of Dominant Sp That Are OBL, FACW,	or FAC:0 (A/B)
Sapling/Shrub Stratum (Plot size:)			
1		Prevalence Index wor	Ksneet:  Multiply by:
2		'	x 1 =
3			x 2 =
5		·	x 3 =
	= Total Cover	·	x 4 =
Herb Stratum (Plot size: 1m x 1m )		UPL species	x 5 =
1. Bromus hordeaceus		Column Totals:	(A) (B)
2. <u>Holocarpha virgate</u>		Prevalence Index	= B/A =
3		Hydrophytic Vegetation	
4       5		Dominance Test is	
6		Prevalence Index is	
7		Morphological Ada	ptations <sup>1</sup> (Provide supporting
8.			s or on a separate sheet)
	= Total Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of budrio soi	l and wetland hydrology must
1		be present, unless distu	
2		Hydrophytic	
		Vegetation	,
% Bare Ground in Herb Stratum 0 % (	Cover of Biotic CrustU	Present? Ye	s No
Remarks:			
Plantago Lanceolata			

Depth	Matrix			ox Feature	s			·
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 3/2	90	5 yr 4/6	10	<u>C</u>	PL	Silty clay	
					· ———			
		_						
					<u> </u>			
		_						
¹Type: C=C	oncentration D=De	nletion RM	l=Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	rains <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
			I LRRs, unless othe			ou ound o		or Problematic Hydric Soils <sup>3</sup> :
Histosol	I (A1)		Sandy Red	lox (S5)			1 cm Mu	uck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Mu	uck (A10) ( <b>LRR B</b> )
_	istic (A3)		Loamy Mu					d Vertic (F18)
	en Sulfide (A4)	-	Loamy Gle		(F2)			rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M		(Fc)		Other (E	Explain in Remarks)
	uck (A9) ( <b>LRR D</b> ) d Below Dark Surfa	ce (A11)	✓ Redox Dar  Depleted D		. ,			
	ark Surface (A12)	00 (/////)	Redox Dep				<sup>3</sup> Indicators o	f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		,			ydrology must be present,
	Gleyed Matrix (S4)						unless dis	sturbed or problematic.
	Layer (if present):							
Туре: <u>Н</u>								
Depth (in	ches): 2						Hydric Soil F	Present? Yes <u>√</u> No
Remarks:								
Same as	SW08b							
HYDROLO	)GY							
	drology Indicators	:						
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Second	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	t (B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Se	diment Deposits (B2) (Riverine)
Saturati			Aquatic Ir	vertebrate	es (B13)		Dri	ft Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		Dra	ainage Patterns (B10)
Sedime	nt Deposits (B2) (No	onriverine			_	-	ots (C3) Dr	y-Season Water Table (C2)
Drift De	posits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C	4)	Cra	ayfish Burrows (C8)
	Soil Cracks (B6)			on Reducti		d Soils (C		turation Visible on Aerial Imagery (C9)
· · · · · · · · · · · · · · · · · · ·	ion Visible on Aerial	• • •	· —	k Surface	. ,		· · · · · · · · · · · · · · · · · · ·	allow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)	T	FA	C-Neutral Test (D5)
Field Obser								
Surface Wat			No ✓ Depth (ir					
Water Table			No <u>✓</u> Depth (ir					
Saturation P (includes ca	resent? pillary fringe)	Yes	No <u>✓</u> Depth (ir	nches):		Wet	land Hydrology	Present? Yes No
		n gauge, m	onitoring well, aerial	photos, pr	evious ins	pections)	, if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/Cou	<sub>nty:</sub> <u>Sacrame</u>	nto County	Sampling Date: 10/27	/2020	
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point:4	.2		
Investigator(s): A, Sennett, A. Godinho	Section,	Township, Ra	nge: Township 7N / Ra	ange 7E / Section 11		
Landform (hillslope, terrace, etc.): Flatland	Local re	lief (concave,	e, convex, none): Concave Slope (%): 0			
Subregion (LRR):	Lat: 38.474550	12	Long: -121.1747957	Datum: WGS	584	
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for tl						
Are Vegetation, Soil, or Hydrology				present? Yes No	· •	
Are Vegetation, Soil, or Hydrology			eeded, explain any answe			
SUMMARY OF FINDINGS – Attach site map					o oto	
SUMMANT OF FINDINGS - Attach site map	silowing samp	ing point i	ocations, transects	s, important leatures	s, etc.	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓  Yes  ✓  Yes  ✓  Remarks:	No	the Sampled		<u>/No</u>		
Associated feature: SW-09. Grazed.						
VEGETATION – Use scientific names of pla		and the Proofess	I B'			
Tree Stratum (Plot size:)	Absolute Domina		Dominance Test work  Number of Dominant S			
1			That Are OBL, FACW,		(A)	
2			Total Number of Domir	nant		
3			Species Across All Stra		(B)	
4			Percent of Dominant S	pecies		
Sapling/Shrub Stratum (Plot size:)	= Total	Cover	That Are OBL, FACW,	or FAC: 100	(A/B)	
1.			Prevalence Index wor	ksheet:	-	
2			Total % Cover of:	Multiply by:	_	
3.				x 1 =		
4				x 2 =		
5		0		x 3 =		
Herb Stratum (Plot size: 1m x 1m )	= Total	Cover		x 4 = x 5 =	-	
1. Hordeum marinum	67.5 Y	FAC		(A)	– (B)	
2. Rumex dentatus	<u>5</u> N	FACW				
3. Convolvulus arvensis	2.5 N	UPL		< = B/A =	_	
4			Hydrophytic Vegetati			
5			<ul><li>✓ Dominance Test is</li><li>✓ Prevalence Index</li></ul>			
6				aptations¹ (Provide supporti	rina	
7				s or on a separate sheet)	g	
8			Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain	n)	
Woody Vine Stratum (Plot size:)		0010.				
1			'Indicators of hydric so be present, unless dist	il and wetland hydrology murbed or problematic.	ıust	
2						
	= Total		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 25	er of Biotic Crust	0		es No		
Remarks:						
Change in species composition, grazing ir	ntensity					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox	x Feature	S1	. 2				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks		
0-2	7.5 YR 3/2	95	5 yr 4/6	5	<u>C</u>	PL	Silty clay			
		_								
		_								
		_								
¹Type: C=Co	oncentration, D=De	oletion, RM	I=Reduced Matrix, CS	=Covered	d or Coate	ed Sand Gi	rains. <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.		
			I LRRs, unless other					for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Sandy Redo				1 cm N	Muck (A9) ( <b>LRR C</b> )		
	oipedon (A2)		Stripped Ma					Muck (A10) (LRR B)		
	stic (A3)		Loamy Mucl		l (F1)			ed Vertic (F18)		
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red P	arent Material (TF2)		
	d Layers (A5) ( <b>LRR</b>	C)	Depleted Ma				Other	(Explain in Remarks)		
	ıck (A9) ( <b>LRR D</b> )		Redox Dark		` '					
	d Below Dark Surfac	e (A11)	Depleted Da				3			
	ark Surface (A12)		✓ Redox Depr		F8)			of hydrophytic vegetation and		
-	Mucky Mineral (S1) Bleyed Matrix (S4)		Vernal Pools	s (F9)				hydrology must be present, listurbed or problematic.		
	Layer (if present):						uniess d	isturbed or problematic.		
Type: H										
			<del></del>				Usalvia Cail	Dracout? Voc / No		
Depth (in	cnes): <u>Z</u>						Hydric Soil	Present? Yes No		
Remarks:										
HYDROLO	GY									
Wetland Hy	drology Indicators									
Primary India	cators (minimum of	one require	ed; check all that apply	/)			Secor	ndary Indicators (2 or more required)		
Surface	Water (A1)		Salt Crust	(B11)			Water Marks (B1) (Riverine)			
High Wa	ater Table (A2)		Biotic Crus				Sediment Deposits (B2) (Riverine)			
Saturation	on (A3)		Aquatic Inv		s (B13)		Drift Deposits (B3) (Riverine)			
	larks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)			Prainage Patterns (B10)		
	nt Deposits (B2) (No		✓ Oxidized R	hizosphe	res along	Living Roo	ots (C3) D	Pry-Season Water Table (C2)		
Drift Dep	oosits (B3) ( <b>Nonrive</b>	rine)	Presence of	of Reduce	ed Iron (C	4)	c	crayfish Burrows (C8)		
Surface	Soil Cracks (B6)		Recent Iron	n Reducti	on in Tille	d Soils (Ce	6) S	aturation Visible on Aerial Imagery (C9)		
Inundati	on Visible on Aerial	Imagery (E	37) Thin Muck	Surface (	(C7)		s	hallow Aquitard (D3)		
Water-S	tained Leaves (B9)		Other (Exp	lain in Re	emarks)		F	AC-Neutral Test (D5)		
Field Obser	vations:									
Surface Wat	er Present?	'es	No <u>✓</u> Depth (inc	ches):						
Water Table	Present?	'es	No <u>✓</u> Depth (inc	ches):						
Saturation P			No ✓ Depth (inc				and Hydrolog	y Present? Yes ✓ No		
(includes cap	oillary fringe)							<u> </u>		
Describe Re	corded Data (strean	n gauge, m	onitoring well, aerial p	hotos, pr	evious ins	spections),	if available:			
Remarks:										
Pock-mar	ks									

Project/Site: Sloughhouse Solar Energy Project	Cit	y/County: Sacran	nento County	Sampling Date: 10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investmen	ts		State: CA	Sampling Point: 43
Investigator(s): A, Sennett, A. Godinho	Se	ction, Township,	Range: Township 7N / R	ange 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland	Lo	cal relief (concav	e, convex, none): None	Slope (%):0
Subregion (LRR):				
Soil Map Unit Name: Galt clay, 2 - 5% slopes				
Are climatic / hydrologic conditions on the site typical fo				
Are Vegetation, Soil, or Hydrology				present? Yes ✓ No
Are Vegetation, Soil, or Hydrology			needed, explain any answe	
SUMMARY OF FINDINGS – Attach site m				
	. No <u>√</u>	<u> </u>	<u> </u>	<u> </u>
	No	Is the Sampl		/
	No	within a Wet	land? Yes	No <u>√</u>
Remarks:		I .	-	
Associated Feature: SW-09				
VEGETATION – Use scientific names of p	lants			
TEGETATION COS COLORIAMOS OF P		Dominant Indicate	or Dominance Test wor	ksheet:
Tree Stratum (Plot size:)		pecies? Status		
1			That Are OBL, FACW,	, or FAC: (A)
2			Total Number of Domi	
3			Species Across All Str	rata: <u>3</u> (B)
4	=		Percent of Dominant S	
Sapling/Shrub Stratum (Plot size:)	=	Total Cover	That Are OBL, FACW,	, or FAC:0 (A/B)
1			Prevalence Index wo	
2			<del>-</del>	Multiply by:
3				x 1 =
4			<del></del>	x 2 =
5	=	Total Cover	<del>-</del>	x 3 = x 4 =
Herb Stratum (Plot size: 1m x 1m )	=	Total Cover		x 5 =
1. Holocarpha virgate	25	Y UPL		(A) (B)
2. Bromus hordeaceus		Y FACU	<u></u>	
3. Elymus caput-medusae		Y NL	_	x = B/A =
4			Hydrophytic Vegetati	
5			Dominance Test is Prevalence Index	
6			<del>-</del>	aptations <sup>1</sup> (Provide supporting
7 8			data in Remark	ks or on a separate sheet)
0.		Total Cover	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)			4	
1			Indicators of hydric so be present, unless dist	oil and wetland hydrology must turbed or problematic.
2			<u> </u>	
		Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0 % C	over of Biotic Crus	st0	Present? Ye	es No <u>√</u>
Remarks:				

		to the dep	oth needed to docu	ment the ox Feature		or confirm	n the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	<u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 3/1	98	5 yr 4/6	2	С	PL	Silty clay	
						·		
		_		_				_
					·	· ——		
1Typo: C-C	oncontration D-Dor	lotion PM	=Reduced Matrix, C	S-Covere	d or Coat	od Sand G	rains <sup>2</sup> l oca	ation: PL=Pore Lining, M=Matrix.
			LRRs, unless othe			eu Sanu G		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		,			uck (A9) (LRR C)
Histic Ep	oipedon (A2)		Stripped M	. ,				uck (A10) ( <b>LRR B</b> )
Black Hi	` '		Loamy Mu					d Vertic (F18)
	en Sulfide (A4)		Loamy Gle	-	(F2)			rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N		(F0)		Other (E	Explain in Remarks)
	uck (A9) ( <b>LRR D</b> ) d Below Dark Surfac	ra (Δ11)	<ul><li>Redox Dar</li><li>Depleted D</li></ul>		` '			
	ark Surface (A12)	<i>(</i> A11)	Redox Dep				<sup>3</sup> Indicators o	f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		/			ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Type: H								,
Depth (in	ches): <u>2</u>						Hydric Soil F	Present? Yes No _✓
Remarks:								
HYDROLO								
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one require	d; check all that app	ly)			Second	dary Indicators (2 or more required)
	Water (A1)		Salt Crus	` ,				ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru					diment Deposits (B2) (Riverine)
Saturation	` '		Aquatic Ir		, ,			ft Deposits (B3) (Riverine)
	larks (B1) (Nonrive		Hydrogen				· · · · · · · · · · · · · · · · · · ·	ainage Patterns (B10)
	nt Deposits (B2) (No					-		y-Season Water Table (C2)
	oosits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	erine)	Presence					ayfish Burrows (C8)
	on Visible on Aerial	Imagery (F				ed Soils (Ce		turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
	tained Leaves (B9)	iiiageiy (L	· —	plain in Re			<del></del>	C-Neutral Test (D5)
Field Obser	( )			.piaiii iii i k	Jiliaino)			0 (100)
Surface Wat		/es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				land Hydrology	Present? Yes No
(includes car	oillary fringe)							105 <u> </u>
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	(	City/Count	<sub>ty:</sub> Sacrame	nto County	_ Sampling Date: _	10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investment:	5			State: CA	_ Sampling Point:	44
Investigator(s): A. Sennet and A. Godinho	;	Section, T	ownship, Ra	nge: <u>Township 7N / R</u>	ange 7E / Section	n 11
Landform (hillslope, terrace, etc.):		Local relie	ef (concave,	convex, none): none	Slo	pe (%):1
Subregion (LRR):						
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology				'Normal Circumstances"		No <b>√</b>
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site ma						atures, etc.
Hydrophytic Vegetation Present? Yes	No ✓			· •	<u> </u>	<u> </u>
Hydric Soil Present? Yes   ✓			the Sampled thin a Wetlar		No <u>√</u>	
Wetland Hydrology Present? Yes <u>✓</u>	No	WIL	iiiii a vvetiai	iu: Tes	140	_
Remarks:						
Associated Feature: SW-10						
VEGETATION – Use scientific names of pla	ants.					
Troo Stratum (Plot size:	Absolute		nt Indicator	Dominance Test wor		
Tree Stratum (Plot size:)  1			? Status	Number of Dominant : That Are OBL, FACW		(A)
2						(11)
3.				Total Number of Dom Species Across All St	nant rata: 1	(B)
4.						(-/
				Percent of Dominant S That Are OBL, FACW	or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wo		
1				Total % Cover of:		v hv:
2 3				OBL species		
4				FACW species		
5.				FAC species		
				FACU species	x 4 =	
Herb Stratum (Plot size: 1m x 1m )	00	V	FACIL	UPL species	x 5 =	
Bromus hordeaceus     Holocarpha virgata	80	Y N	_ FACU	Column Totals:	(A)	(B)
3. Elymus caput-medusae	<u>15</u> 5	N	UPL UPL	Prevalence Inde	ex = B/A =	
4		-		Hydrophytic Vegetat		
5				Dominance Test		
6.				Prevalence Index		
7.				Morphological Ad	aptations <sup>1</sup> (Provide	supporting
8					ks or on a separate	,
, , , , , , , , , , , , , , , , , , ,	100	= Total C	over	Problematic Hydr	opnytic vegetation	(Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric se	oil and wetland hydr	rology must
1 2			_	be present, unless dis		
2.			over	Hydrophytic		
% Bare Ground in Herb Stratum0	·		0	Vegetation	oo No	./
% Bare Ground in Herb Stratum % Co	vei oi biotic Ci	นธเ		Present? Y	es No	<u>*</u>
remars.						

Depth	Matrix	07	Red			Loc <sup>2</sup>	Taytura	Domesto
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		<u>Texture</u>	Remarks
)-2	7.5 Y/R 3/2	95	5 YR 4/6	5	<u>C</u>	PL/M	Silty clay	
	-						-	
					-			
							-	
					_			
Type: C=Co	oncentration, D=De	pletion, RM:	=Reduced Matrix, C	S=Covere	d or Coat	ed Sand G	rains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators: (Appli	cable to all	LRRs, unless other	erwise not	ted.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Re	dox (S5)			1 cm M	uck (A9) (LRR C)
Histic Ep	pipedon (A2)		Stripped N	Matrix (S6)				uck (A10) ( <b>LRR B</b> )
Black Hi	, ,		Loamy Mu					ed Vertic (F18)
	n Sulfide (A4)	_,	Loamy Gle					rent Material (TF2)
	Layers (A5) (LRR	C)	Depleted I				Other (	Explain in Remarks)
	ck (A9) (LRR D)	20 (111)	Redox Da Depleted I		. ,			
	l Below Dark Surfa ark Surface (A12)	ce (ATT)	Depleted t		, ,		<sup>3</sup> Indicators (	of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Po		(10)			nydrology must be present,
	leyed Matrix (S4)			0.0 (. 0)				sturbed or problematic.
	ayer (if present):							•
-								
Type:								
							Hydric Soil	Present? Yes ✓ No
Depth (inc	ches):						Hydric Soil	Present? Yes <u>√</u> No
Depth (ind	ches):						Hydric Soil	Present? Yes <u>√</u> No
Depth (ind Remarks:	GY						Hydric Soil	Present? Yes <u>√</u> No
Depth (ind Remarks: YDROLO Wetland Hyd	GY drology Indicators	:						
Depth (ind Remarks: YDROLO Wetland Hyd	GY	:		oly)				Present? Yes √ No
Depth (ind Remarks: YDROLO Wetland Hyd Primary India Surface	GY drology Indicators eators (minimum of	:	d; check all that app	st (B11)			Secon	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Depth (ind Remarks: YDROLO Wetland Hyd Primary India Surface	GY drology Indicators	:	d; check all that app	st (B11)			Secon	dary Indicators (2 or more required)
Depth (incomplete primary Indicates)  Primary Indicates Surface	GY drology Indicators eators (minimum of Water (A1) ter Table (A2)	:	d; check all that app	st (B11) ust (B12)	es (B13)		<u>Secon</u> W Se	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Depth (ind Remarks:  YDROLO  Wetland Hyde  Primary Indic  Surface  High Wa  Saturatio  Water M	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive	: one required	d; check all that app — Salt Crus — Biotic Cru — Aquatic I — Hydrogel	et (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		Second 	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (ind Remarks:  YDROLO  Wetland Hyde  Primary Indic  Surface  High Wa  Saturatio  Water M	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3)	: one required	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroger	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	_	Secon W Se Dr Dr Dr ots (C3) Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Depth (ind Remarks:  YDROLO  Wetland Hyde  Primary Indic  Surface  High Wa  Saturatic  Water M  Sedimer  Drift Dep	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (Nonrive	: one required rine) onriverine)	d; check all that app Salt Crus Biotic Crus Aquatic I Hydrogel V Oxidized Presence	et (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	edor (C1) eres along ed Iron (C	4)	Secon W Se Dr Dr Dts (C3) Dr Cr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Depth (incomplete Control of the Con	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No	: one required rine) onriverine)	d; check all that app Salt Crus Biotic Crus Aquatic I Hydrogel Voxidized Presence Recent Ir	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	edor (C1) eres along ed Iron (C ion in Tille	4)	Secondary  W Secondary  Dr Dr Cots (C3)  Cr So Secondary	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9
Depth (incomplete property)  Primary Indicomplete primary Indicate primary Indicat	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial	: one required rine) onriverine)	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroger Voxidized Presence Recent In	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No	: one required rine) onriverine)	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroger Voxidized Presence Recent In	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9
Primary Indic  Surface High Water M Sedimer Drift Dep Surface Inundati Water-S Field Observing	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	: one required rine) onriverine) erine)	d; check all that app Salt Crus Biotic Crus Aquatic I Hydroger ✓ Oxidized Presence Recent In 7) Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (incomplete property)  Primary Indicomplete primary Indicate primary Indicat	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	: one required porriverine) erine) Imagery (B	d; check all that app Salt Crus Biotic Crus Aquatic I Hydrogel Voxidized Presence Recent In Thin Muc Other (E:	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (incomplete property)  Primary India Surface High Water M Sedimer Drift Dep Surface Inundation Water-S Field Obserts	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	: one required porriverine) erine) Imagery (B	d; check all that app Salt Crus Biotic Crus Aquatic I Hydroger ✓ Oxidized Presence Recent In 7) Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (inconservation) Primary Indiconservation Surface High Was Saturation Water M Sedimer Drift Dep Surface Inundation Water-S Field Observation Water Table Saturation Primary Indiconservation Surface Water Surface Water Surface Water Surface Water Table	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	: one required prine) erine) Imagery (B	d; check all that app Salt Crus Biotic Crus Aquatic I Hydrogel Voxidized Presence Recent In Thin Muc Other (E:	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface explain in Re nches):	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Second  W Second  Second  Color Second   dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)	
Depth (inc Remarks:  YDROLO Wetland Hyd Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-S Field Obser Surface Water Water Table Saturation Political	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one required prine) priverine) lmagery (B Yes Yes	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroge Voxidized Presence Recent Ir Thin Muc Other (E: No V Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) rift Deposits (B3) ( <b>Riverine</b> ) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inc Remarks:  YDROLO Wetland Hyd Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-S Field Obser Surface Water Water Table Saturation Political	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	: one required prine) priverine) lmagery (B Yes Yes	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroge Voxidized Presence Recent Ir Thin Muc Other (E: No V Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) rift Deposits (B3) ( <b>Riverine</b> ) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incomplete Remarks:  YDROLO Wetland Hyde Primary Indicomplete Remarks:  Surface High Water Management Sedimer Drift Depth Surface Inundation Water-S Field Obsert Surface Water Water Table Saturation Profit Concludes cape Describe Remarks:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one required prine) priverine) lmagery (B Yes Yes	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroge Voxidized Presence Recent Ir Thin Muc Other (E: No V Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) rift Deposits (B3) ( <b>Riverine</b> ) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incomplete Remarks:  YDROLO Wetland Hyde Primary Indicomplete Remarks:  Surface High Water Management Sedimer Drift Depth Surface Inundation Water-S Field Obsert Surface Water Water Table Saturation Profit Concludes cape Describe Remarks:	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one required prine) priverine) lmagery (B Yes Yes	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroge Voxidized Presence Recent Ir Thin Muc Other (E: No V Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) rift Deposits (B3) ( <b>Riverine</b> ) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inc Remarks:  YDROLO Wetland Hyd Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-S Field Obser Surface Water Water Table Saturation Political	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one required prine) priverine) lmagery (B Yes Yes	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroge Voxidized Presence Recent Ir Thin Muc Other (E: No V Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) rift Deposits (B3) ( <b>Riverine</b> ) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inception of the content of t	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one required prine) priverine) lmagery (B Yes Yes	d; check all that app Salt Crus Biotic Cru Aquatic I Hydroge Voxidized Presence Recent Ir Thin Muc Other (E: No V Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) ediment Deposits (B2) ( <b>Riverine</b> ) rift Deposits (B3) ( <b>Riverine</b> ) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project		City/County	: Sacramei	nto County	Sampling Date: 10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 45
Investigator(s): A, Sennett and A. Godinho		Section, To	wnship, Rar	nge: Township 7N / Rai	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Flatlands		Local relief	(concave, c	convex, none): None	Slope (%):1
Subregion (LRR): C	Lat: 38.4	7413736		Long: -121.1729284	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes					cation: n/a
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, soil, or Hydrology sig					oresent? Yes No _✓
Are Vegetation, Soil, or Hydrology na				eded, explain any answei	
SUMMARY OF FINDINGS – Attach site map s					
			<u> </u>		<u> </u>
Hydrophytic Vegetation Present? Yes _ ✓ No Hydric Soil Present? Yes _ ✓ No		Is th	e Sampled		
Wetland Hydrology Present? Yes ✓ No		with	in a Wetlan	ıd? Yes <u>√</u>	No
Remarks:					
Located centrally within VP-01. Delineated	by exter	nt of Ery	ngium c	astrense	
,					
VECETATION . Her exicutific names of plant					
VEGETATION – Use scientific names of plant		D	L. P. L.	l Barriago Tagrico de	-b - d
Tree Stratum (Plot size:)	Absolute % Cover			Dominance Test works  Number of Dominant Sp	
1					or FAC: 1 (A)
2				Total Number of Domina	ant
3				Species Across All Stra	
4				Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver		or FAC: 100 (A/B)
1				Prevalence Index worl	ksheet:
2.				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4				FACW species	x 2 =
5				*	x 3 =
Herb Stratum (Plot size: 5m x 5m )	0	= Total Co	ver		x 4 =
1. Hordeum marinum	60	Υ	FAC		x 5 =
2. Alopecurus saccatus		N	OBL	Column Totals:	(A) (B)
3. Erigeron sp.		N	FACW #	Prevalence Index	= B/A =
4. Rumex dentatus	5	N	FACW	Hydrophytic Vegetation	
5				Dominance Test is	
6				Prevalence Index is	
7					ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8					phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	/5	= Total Co	ver		
1					l and wetland hydrology must
2				be present, unless distu	irbed or problematic.
	0	= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 25 % Cover	of Biotic Cr	ust	)		s/_ No
Remarks:				<u>I</u>	
Heavily grazed					
, 6. 4264					

Depth	cription: (Describe	to the dep				or commi	iii tiie abseiit	e of mulcators.)		
(inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4	7.5 YR 4/2	95	5 YR 5/8				Silty clay			
0 4	7.5 11( 4/2		<u>5 11( 5/ 6</u>				Sirry ciay			
							· -			
				_						
-			-							
-						-		_		
				_						
<sup>1</sup> Type: C=C	Concentration, D=Dep	oletion, RM=	Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	rains. <sup>2</sup> L	ocation: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators: (Applic	cable to all	LRRs, unless othe	rwise not	ted.)		Indicator	rs for Problematic Hydric Soils <sup>3</sup> :		
Histoso	l (A1)		Sandy Rec	lox (S5)			1 cm	Muck (A9) (LRR C)		
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm	Muck (A10) (LRR B)		
Black H	listic (A3)		Loamy Mu	cky Minera	al (F1)			uced Vertic (F18)		
	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)			Parent Material (TF2)		
	ed Layers (A5) (LRR	C)	Depleted N				Othe	er (Explain in Remarks)		
	uck (A9) ( <b>LRR D</b> )		Redox Dar		. ,					
	ed Below Dark Surfac	ce (A11)	Depleted D				3			
	Park Surface (A12)		Redox Dep		(F8)			rs of hydrophytic vegetation and		
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				d hydrology must be present,		
	Gleyed Matrix (S4)  Layer (if present):						uniess	disturbed or problematic.		
Type: H			<del></del>							
Depth (in	nches): 4						Hydric So	oil Present? Yes No		
HYDROLO	)GY									
Wetland Hy	drology Indicators	:								
Primary Indi	icators (minimum of	one required	l; check all that app	ly)			Sec	ondary Indicators (2 or more required)		
Surface	Water (A1)		Salt Crus	t (B11)				Water Marks (B1) (Riverine)		
High W	ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)		
Saturati	` '		Aquatic Ir		es (B13)		Sealment Deposits (B2) (RIV			
	Marks (B1) ( <b>Nonrive</b> i	rine)	· Hydrogen					Drainage Patterns (B10)		
·	ent Deposits (B2) (No				, ,	Living Ro		Dry-Season Water Table (C2)		
	posits (B3) (Nonrive		Presence		_	_		Crayfish Burrows (C8)		
	Soil Cracks (B6)	,	Recent Ire		,	•	· · · · · · · · · · · · · · · · · · ·	Saturation Visible on Aerial Imagery (C9)		
	ion Visible on Aerial	Imagery (B7				,	· —	Shallow Aquitard (D3)		
	Stained Leaves (B9)	0 , (	Other (Ex		` '			FAC-Neutral Test (D5)		
Field Obser	· ,				/					
		es l	No <u>✓</u> Depth (ir	nches):						
Water Table			No <u>✓</u> Depth (ir							
							land Hydrala	agu Bracant? Vac / No		
Saturation F (includes ca	resent? pillary fringe)	res i	No <u>✓</u> Depth (ir	icnes):		_ wet	iano nyoroio	gy Present? Yes No		
	ecorded Data (stream	n gauge, mo	nitoring well, aerial	photos, pi	revious ins	pections)	, if available:			
Remarks:										
Pock mar	rks									

Project/Site: Sloughhouse Solar Energy Project	Ci	ty/County: Sac	ramento County	Sampling Da	ate: 10/27/2020
Applicant/Owner: D.E. Shaw Renewable Investmen	ts		State:	CA Sampling Po	oint: 46
Investigator(s): A, Sennett and A. Godinho	s	ection, Townsh	ip, Range: Township 7	N / Range 7E / Se	ction 11
Landform (hillslope, terrace, etc.): Flatlands					
Subregion (LRR): C	Lat: 38.47	740867	Long: -121.173	5748	Datum: WGS84
			NWI o		
Are climatic / hydrologic conditions on the site typical fo					
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology			Are "Normal Circumsta		s No ✓
Are Vegetation, Soil, or Hydrology			(If needed, explain any	•	
SUMMARY OF FINDINGS – Attach site m					
	. No <u>✓</u>	1		· · ·	·
	No ✓		npled Area	a Na	./
	No <b>√</b>	within a \	Vetland? Ye	s No	<u>v</u>
Remarks:		<u>'</u>			
Upland point to 13 and 45 (VP-01)					
VEGETATION – Use scientific names of p	lants.				
T. O (D		Dominant Indic		st worksheet:	
Tree Stratum (Plot size:)		Species? Sta	Number of Dom That Are OBL, F		0 (A)
1 2			That Are OBL, F	ACW, OF FAC.	(A)
3.			Total Number of Species Across		3 (B)
4.					(B)
		Total Cover	Percent of Domi That Are OBL, F	nant Species FACW, or FAC:	0 (A/B)
Sapling/Shrub Stratum (Plot size:)					
1				ex worksneet: /er of: M	ultiply by:
2				x 1 =	
3 4				x 2 =	
5.				x 3 =	
		Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size: 5m x 5m )				x 5 =	
1. Bromus hordeaceus				(A)	(B)
Holocarpha virgate     Elymus caput-medusae			PL Prevalence	e Index = B/A =	
4				getation Indicators	
5				_	
6.					
7			Morphologic	cal Adaptations <sup>1</sup> (Pro	ovide supporting
8			data in R	Remarks or on a separate Hydrophytic Vegeta	,
March Vine Otaton (Blatein	100 =	Total Cover	Problematic	Hydrophytic vegeta	illori (Explairi)
Woody Vine Stratum (Plot size:)			<sup>1</sup> Indicators of hy	dric soil and wetland	l hydrology must
1 2				ss disturbed or prob	
		Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum0 % C			Vegetation	Voc. N	lo ./
Remarks:	OVEL OF DIOLIC CIT	ot	_ Present?	Yes N	<u>↓</u>
nomano.					

Profile Desc	cription: (Descr	ibe to the dept	n needed to docu	ment the inc	dicator or o	confirm	the absence of indica	ators.)	
Depth	Matri			x Features	<del>-</del> 1 ·		<b>T</b> .	<b>.</b> .	
(inches)	Color (moist		Color (moist)		Type <sup>1</sup> L	_oc²	Texture	Remarks	
0-4	7.5 YR 3/2	100					Silty clay		
	-								<del></del>
						<del></del> -			
<del></del>	-						<del></del>		
	-								
		_	Reduced Matrix, C			and Gra		L=Pore Lining, M=	
Hydric Soil	Indicators: (Ap	olicable to all L	RRs, unless othe	rwise noted	d.)		Indicators for Prob	olematic Hydric S	oils³:
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck (A9)	(LRR C)	
-	pipedon (A2)		Stripped M				2 cm Muck (A10	, ,	
	istic (A3)			cky Mineral (			Reduced Vertic		
	en Sulfide (A4)			yed Matrix (F	F2)		Red Parent Mat		
	d Layers (A5) ( <b>LF</b>	RR C)	Depleted M	, ,			Other (Explain i	in Remarks)	
	uck (A9) ( <b>LRR D</b> )			k Surface (F	,				
-	d Below Dark Su			ark Surface			31 11 4 61 1		
	ark Surface (A12)			ressions (F8	3)		<sup>3</sup> Indicators of hydror		
	Mucky Mineral (S	,	Vernal Poo	IS (F9)				y must be present	,
	Gleyed Matrix (S4 Layer (if present	•					unless disturbed	or problematic.	
		.).							
Type: Ha									
Depth (in	ches): <u>4</u>						Hydric Soil Present	? Yes	No <u>√</u>
Remarks:									
HYDROLO	GV								
_	drology Indicate								
	•	of one required:	check all that app					icators (2 or more	
Surface			Salt Crust					rks (B1) (Riverine	
	ater Table (A2)		Biotic Cru	st (B12)				Deposits (B2) (Riv	
Saturation	on (A3)		Aquatic In	vertebrates	(B13)		Drift Depos	sits (B3) (Riverine	<b>e</b> )
Water M	larks (B1) ( <b>Nonri</b>	verine)	Hydrogen	Sulfide Odo	or (C1)		Drainage F	Patterns (B10)	
Sedimer	nt Deposits (B2)	Nonriverine)	Oxidized	Rhizosphere	es along Livi	ng Roots	s (C3) Dry-Seaso	on Water Table (C	2)
Drift Dep	posits (B3) ( <b>Nonr</b>	iverine)	Presence	of Reduced	Iron (C4)		Crayfish B	surrows (C8)	
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	n in Tilled So	oils (C6)	Saturation	Visible on Aerial	magery (C9)
Inundati	on Visible on Aer	ial Imagery (B7)	Thin Mucl	Surface (C	7)		Shallow A	quitard (D3)	
Water-S	tained Leaves (E	9)	Other (Ex	plain in Rem	narks)		FAC-Neuti	ral Test (D5)	
Field Obser	vations:								
Surface Wat	er Present?	Yes N	o ✓ Depth (in	ches):					
Water Table		·	o ✓ Depth (in						
						Wetler	nd Hudrology Procen	12 Vac	No. /
Saturation P (includes car		resN	o <u>√</u> Depth (ir	cries):		vvetial	nd Hydrology Presen	itr res	NO ¥
		eam gauge, mor	nitoring well, aerial	photos, prev	vious inspec	tions), if	available:		
						,			
Remarks:									
rtomarts.									
İ									

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>y:</sub> Sacramei	nto County	Sampling Date:	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	47
				nge: Township 7N / Ra		
Landform (hillslope, terrace, etc.): flatlands		Local relie	ef (concave, c	convex, none): flat	Slo	ope (%): 0
Subregion (LRR):						
				NWI classific		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation _ ✓ _, Soil, or Hydrology signature.				Normal Circumstances" p		No. 🗸
Are Vegetation, Soil, or Hydrology na	-			eded, explain any answe		110
SUMMARY OF FINDINGS – Attach site map s	howing	samplir	ng point lo	ocations, transects	, important fe	etures, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes ✓ No Remarks:			he Sampled hin a Wetlan		No <u></u> ✓	_
Associated feature: SW 12						
VEGETATION – Use scientific names of plant	s.					
-	Absolute		t Indicator	Dominance Test work	sheet:	
			Status_	Number of Dominant Sp		1 (1)
1				That Are OBL, FACW,	or FAC:	1 (A)
2 3				Total Number of Domin Species Across All Stra		2 (B)
4						<u> </u>
				Percent of Dominant Sp That Are OBL, FACW, of		50 (A/B)
Sapling/Shrub Stratum (Plot size:)						(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1				Prevalence Index wor		h. h
2				Total % Cover of:  OBL species 0	x 1 =	
3				FACW species 0		
5					x 3 =	
			over	FACU species 65		
Herb Stratum (Plot size: 5m x 5m				UPL species 10	x 5 =	50
1. Bromus hordeaceus	50	Y	FACU	Column Totals:10	00 (A)	385 (B)
2. Holocarpha virgata	10	N 	NL NL	Prevalence Index	· _ B/A _ 3	8 5
Festuca perennis     Hordeum murinum	<u>25</u> 15	N	FAC FACU	Hydrophytic Vegetation		
5			TACO	Dominance Test is		
6				Prevalence Index is		
7				Morphological Ada	ptations <sup>1</sup> (Provide	supporting
8.					s or on a separate	,
		= Total Co	over	Problematic Hydro	phytic Vegetation	ˈ (Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	il and watland by	drology muct
1				be present, unless distu		
2			ovor	Hydrophytic		
				Vegetation		,
	of Biotic Cr	ust	0	Present? Ye	s No_	<u> </u>
Remarks:						

	cription: (Describe Matrix	to the de	pth needed to docu	ment the		or confirr	n the absence of	r indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	ox Feature %	es <u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 2.5/2	97	5 YR 5/8	3	С	PL	silty clay	
		_		_				
			-		- · · · · · · · · · · · · · · · · · · ·			
					-			
		_						
		_						
		_						
¹Type: C=C	oncentration D=De	nletion RM	l=Reduced Matrix, C	S-Covere	ed or Coat	ed Sand G	rains <sup>2</sup> l ocat	tion: PL=Pore Lining, M=Matrix.
			I LRRs, unless othe			ca cana c		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		,			ck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M	. ,				ck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu		al (F1)			Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matri	x (F2)		Red Pare	ent Material (TF2)
Stratified	d Layers (A5) ( <b>LRR</b>	C)	Depleted N	/latrix (F3)			Other (E	xplain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar		. ,			
	d Below Dark Surfac	ce (A11)	Depleted D				3	
	ark Surface (A12)		Redox Dep		(F8)			hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	ois (F9)			•	rdrology must be present, turbed or problematic.
	Layer (if present):						uriless dist	urbed of problematic.
Type: cla								
Depth (in							Hydric Soil P	resent? Yes No ✓
Remarks:	CHE3). <u>-</u>						Tryunc 3011 T	resent: res Nov
HYDROLO	GY							
	drology Indicators	:						
_			ed; check all that app	olv)			Seconda	ary Indicators (2 or more required)
	Water (A1)	0110 10 9011	Salt Crus					ter Marks (B1) ( <b>Riverine</b> )
_	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturation			Aquatic Ir		es (B13)			t Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b>	rine)	Hydrogen		, ,		<del></del>	inage Patterns (B10)
	nt Deposits (B2) (No		-			Livina Ro	<del></del>	-Season Water Table (C2)
	posits (B3) (Nonrive		Presence		-	•		yfish Burrows (C8)
	Soil Cracks (B6)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ed Soils (C		uration Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (E						allow Aguitard (D3)
· <del></del>	stained Leaves (B9)		Other (Ex					C-Neutral Test (D5)
Field Obser	vations:			•	,		<del></del>	
Surface Wat	er Present?	Yes	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No <u>✓</u> Depth (ir				land Hydrology I	Present? Yes √ No
(includes cap	oillary fringe)	162	No <u>▼</u> Deptii (ii	iches)		•••••	ianu riyurology i	riesent: ies v NO
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, p	revious in	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	C	ity/County:	Sacramei	nto County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	48
Investigator(s): A, Sennett , A. Godinho, L. Burris	S	ection, Tov	vnship, Rar	nge: <u>Township 7N / Ra</u>	inge 7E / Section	າ 11
Landform (hillslope, terrace, etc.): Flatlands	L	ocal relief	(concave, d	convex, none): None	Slor	pe (%):0
Subregion (LRR):						
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3%						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation _ ✓ _, Soil, or Hydrology si				Normal Circumstances" p		No <b>√</b>
Are Vegetation, Soil, or Hydrologyn				eded, explain any answe		
			`			-4
SUMMARY OF FINDINGS – Attach site map	snowing :	sampiing	g point it	ocations, transects	, important le	atures, etc.
Hydrophytic Vegetation Present? Yes No		Is the	e Sampled	Area		
Hydric Soil Present? Yes No			n a Wetlan		No <u></u> ✓	_
Wetland Hydrology Present? Yes ✓ No Remarks:	0					
Associated Feature: VP:02						
Grazing.						
VEGETATION – Use scientific names of plant	ts.					
Tree Stratum (Plot size:)	Absolute % Cover			Dominance Test work		
1				Number of Dominant S That Are OBL, FACW,		(A)
2.						(-,
3				Total Number of Domin Species Across All Stra		(B)
4				Percent of Dominant Sp		
Ocalica (Oharb Otarbasa (Dharcian	0	= Total Cov	/er	That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index wor	ksheet:	
2				Total % Cover of:		v bv:
3				OBL species		
4.				FACW species		
5				FAC species	x 3 =	
5 m 5 m	:	= Total Cov	/er	FACU species	x 4 =	
Herb Stratum (Plot size: 5m x 5m )	60	V	EACH	UPL species		
Bromus hordeaceus     Holocarpha virgate		N Y	FACU NL	Column Totals:	(A)	(B)
Avena barbata			NL	Prevalence Index	a = B/A =	
4. Hordeum marinum				Hydrophytic Vegetation		
5.				Dominance Test is	>50%	
6				Prevalence Index is	s ≤3.0 <sup>1</sup>	
7				Morphological Ada		
8				Problematic Hydro	s or on a separate	*
Woody Vine Stratum (Plot size:)	100	= Total Cov	/er	Troblematic riyaro	priyue vegetation	(Explain)
1				<sup>1</sup> Indicators of hydric soi	il and wetland hydr	ology must
2.				be present, unless distu		
		= Total Cov	/er	Hydrophytic		
% Bare Ground in Herb Stratum 0				Vegetation Present? Ye	s No	/
Remarks:	5, DIOIIO OI			. 1000111: 16		<u> </u>

	cription: (Describe	to the dep				or confirm	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 2.5/2	97	5 yR 5/8	3	С	pl	Silty clay	
						·		
					· ———	· ——		_
					<del></del>			
			=Reduced Matrix, C			ed Sand G		ation: PL=Pore Lining, M=Matrix.
-		able to all	LRRs, unless other		ed.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) Dipedon (A2)		Sandy Red Stripped M	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
Black Hi			Simpled M		al (F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted M		,			Explain in Remarks)
	ıck (A9) ( <b>LRR D</b> )		Redox Dar		. ,			
	d Below Dark Surfac	e (A11)	Depleted D				2	
	ark Surface (A12)		Redox Dep		F8)			f hydrophytic vegetation and
	Mucky Mineral (S1) Bleyed Matrix (S4)		Vernal Poo	ols (F9)				ydrology must be present, sturbed or problematic.
	Layer (if present):						unicss dis	nurbed of problematic.
Type: CL								
Depth (in							Hydric Soil F	Present? Yes No ✓
Remarks:							,	
HYDROLO	GY							
	drology Indicators:	1						
_			d; check all that app	lv)			Second	dary Indicators (2 or more required)
	Water (A1)	one require	Salt Crust					ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru	,				diment Deposits (B2) (Riverine)
Saturation			Aquatic Ir		s (B13)			ft Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b> r	rine)	Hydrogen		, ,			ainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b>		· · · · ·			Living Roo	· · · · · · · · · · · · · · · · · · ·	/-Season Water Table (C2)
	posits (B3) (Nonrive		Presence			•		ayfish Burrows (C8)
	Soil Cracks (B6)					d Soils (Ce		turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B		k Surface (				allow Aquitard (D3)
	tained Leaves (B9)			plain in Re				C-Neutral Test (D5)
Field Obser	vations:			•	,			, ,
Surface Wat	er Present? Y	'es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				land Hydrology	Present? Yes No
(includes cap	oillary fringe)							
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pr	evious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/	County:	Sacramer	nto County	Sampling Date: _	10/28/2020	
olicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	49	
Investigator(s): L. Burris, A. Sennet, A. Godinho Section, Township, Range: Township 7N / Range 7E / Section 11							
Landform (hillslope, terrace, etc.): flatland	etc.): flatland Local relief (concave, convex, none): none Slope (%): 0						
Subregion (LRR): C	Lat: 38.47320174 Long						
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slop							
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology significantly disturbed?							
Are Vegetation, Soil, or Hydrology natura				eded, explain any answe			
SUMMARY OF FINDINGS - Attach site map sho	wing sar	npling	point lo	ocations, transects	, important fe	atures, etc.	
Hydrophytic Vegetation Present? Yes No	<u></u>						
Hydric Soil Present? Yes No			Sampled		/		
Wetland Hydrology Present? Yes ✓ No		withir	a Wetlan	d? Yes	No <u>√</u>	•	
Remarks:		1					
Upland pt to 20 (SW-14). Grazing							
VEGETATION – Use scientific names of plants.							
	solute Do	minant I	ndicator	Dominance Test work	sheet:		
	Cover Sp			Number of Dominant Sp			
1				That Are OBL, FACW, o		(A)	
2				Total Number of Domina	ant		
3				Species Across All Stra	ta: <u>2</u>	(B)	
4				Percent of Dominant Sp	pecies		
Sapling/Shrub Stratum (Plot size:)	= T	otal Cov	er	That Are OBL, FACW, o	or FAC: 0	(A/B)	
1			<u>.</u>	Prevalence Index world	ksheet:		
2				Total % Cover of:	Multiply	/ by:	
3				OBL species	x 1 =		
4				FACW species			
5				FAC species			
Herb Stratum (Plot size: 5m x 5m )	= T	otal Cov	er	FACU species			
	20	Υ	NL	UPL species Column Totals:			
2. Bromus hordeaceus	70	Υ	FACU	Column Totals.	(A)	(b)	
3. Triteleia laxa	2	N	NL	Prevalence Index	= B/A =		
4. Avena barbata	3	N	NL	Hydrophytic Vegetation			
5				Dominance Test is			
6				Prevalence Index is			
7				Morphological Adaş data in Remarks	ptations (Provide : s or on a separate		
8				Problematic Hydrop	•	,	
Woody Vine Stratum (Plot size:)	= 1	otal Cov	er				
1				<sup>1</sup> Indicators of hydric soil			
2				be present, unless distu	rbed or problemat	tic.	
	= T		er	Hydrophytic			
% Bare Ground in Herb Stratum 0 % Cover of B	iotic Crust			Vegetation Present? Yes	s No	✓	
Remarks:	<u> </u>					<del></del>	

Profile Desc Depth	cription: (Describe Matrix	to the de	oth needed to docu	ment the		or confirm	n the absence o	r indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2	7.5 Y/R 2.5/3	97	5 YR 5/8	3	С	PL	silty clay			
					_	·				
	-									
	-									
	-		-							
¹Type: C=C	oncentration, D=De	oletion, RM	I=Reduced Matrix, C	S=Covere	ed or Coate	ed Sand G	rains. <sup>2</sup> l ocat	tion: PL=Pore Lining, M=Matrix.		
			I LRRs, unless other					or Problematic Hydric Soils <sup>3</sup> :		
Histosol			Sandy Red				1 cm Mu	ck (A9) ( <b>LRR C</b> )		
	pipedon (A2)		Stripped M	. ,				ck (A10) ( <b>LRR B</b> )		
Black H	istic (A3)		Loamy Mu	cky Miner	al (F1)		Reduced	Vertic (F18)		
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)							Red Pare	ent Material (TF2)		
	d Layers (A5) (LRR	C)	Depleted N	, ,			Other (E	xplain in Remarks)		
	uck (A9) ( <b>LRR D</b> )		Redox Dar		, ,					
	d Below Dark Surfac	ce (A11)	Depleted D				31 11			
Thick Dark Surface (A12) Redox Depressions (F8)								hydrophytic vegetation and		
Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4)							wetland hydrology must be present, unless disturbed or problematic.			
	Layer (if present):						dilicoo dioi	and of problematic.		
	,									
	ches):		<del></del>				Hydric Soil P	resent? Yes No		
Remarks:	ones)						Tryuno con t	103 10		
IYDROLO										
Wetland Hy	drology Indicators	:								
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Second	ary Indicators (2 or more required)		
	Water (A1)		Salt Crus	t (B11)				ter Marks (B1) (Riverine)		
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sec	diment Deposits (B2) (Riverine)		
Saturati	on (A3)		Aquatic Ir	vertebrat	es (B13)		Drif	t Deposits (B3) (Riverine)		
Water M	farks (B1) (Nonrive	rine)	Hydrogen				·	inage Patterns (B10)		
Sedime	nt Deposits (B2) (No	onriverine)	✓ Oxidized	Rhizosph	eres along	Living Roo	ots (C3) Dry	-Season Water Table (C2)		
	posits (B3) (Nonrive	erine)	Presence					yfish Burrows (C8)		
	Soil Cracks (B6)					ed Soils (Co		uration Visible on Aerial Imagery (C9)		
· <del></del>	on Visible on Aerial	Imagery (E	, <u>—</u>					allow Aquitard (D3)		
Water-S	Stained Leaves (B9)		Other (Ex	plain in R	emarks)		FAC	C-Neutral Test (D5)		
Field Obser										
Surface Wat			No <u>✓</u> Depth (ir							
Water Table			No <u>✓</u> Depth (ir			l l				
Saturation P	resent?	Yes	No ✓ Depth (ir	nches):		Wetl	land Hydrology	Present? Yes <u>√</u> No		
	pillary fringe) corded Data (strean	n gauge, m	onitoring well, aerial	photos, p	revious in	spections).	if available:			
Dodding ito	oordod Bata (otrodii	ii gaago, ii	iorniornig won, donar	priotoo, p	1011000 111	5p00010110),	n avanabio.			
Remarks:										
rtomants.										

Project/Site: Sloughhouse Solar Energy Project	City/Co	ounty: S	Sacramen	to County	Samp	oling Date: _	10/28/	2020
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA Samp	ling Point: _	50	)
Investigator(s): A, Sennett, A. Godinho, L. Burris	Sectio	n, Towi	nship, Ran	ge: Township 7	N / Range 7	E / Section	11	
Landform (hillslope, terrace, etc.): Flatland	Local	relief (d	concave, c	onvex, none): <u>no</u>	ne	Slop	e (%): _	0
Subregion (LRR): Lat:	38.47298	3756		Long: -121.172	8497	Datur	n: WGS8	84
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slope								
Are climatic / hydrologic conditions on the site typical for this time of								
Are Vegetation _ ✓ , Soil, or Hydrology significa							No	✓
Are Vegetation, Soil, or Hydrology naturally								
							2411822	212
SUMMARY OF FINDINGS – Attach site map show	ing sam	piing	point io	cations, trans	sects, imp	Ortant lea	atures,	, etc.
Hydrophytic Vegetation Present? Yes No✓	·	Is the	Sampled .	Area				
Hydric Soil Present? Yes No			a Wetlan		s 1	No ✓		
Wetland Hydrology Present? Yes ✓ No	<u>—</u>				''			
Remarks:								
Associated feature: VP-3b Grazed								
Grazed								
VEGETATION – Use scientific names of plants.								
	lute Domi			Dominance Tes	t worksheet:			
	over Spec			Number of Domi			,	/A)
1				That Are OBL, F	ACVV, OF FAC	,. <u> </u>	(	(A)
3				Total Number of Species Across A		2	(	(B)
4.							\	(0)
	) = Tota			Percent of Domir That Are OBL, F.			(	(A/B)
Sapling/Shrub Stratum (Plot size:)			_				\	
1				Prevalence Inde			, b	
2				Total % Cov OBL species				
3				FACW species				
5				FAC species				
	= Tota			FACU species				
Herb Stratum (Plot size: 5m x 5m )	<del></del>			UPL species	45	x 5 =	225	
1. Holocarpha virgate 5			NL_	Column Totals:	100	(A)	145	(B)
- A			FACU	Provolence	Index = B/A	_ 44	15	
3. Avena barbata 40			NL_	Hydrophytic Ve				•
4				Dominance	_			
5				Prevalence I				
7				Morphologic			supportir	ng
8.					emarks or on		,	
_ 10	00 = Tota	al Cove	er	Problematic	Hydrophytic \	√egetation '	(Explain)	)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hyd	المتاه ممثل ممط	untland budge	ala <i>au 1</i> may	unt
1				be present, unles				191
2	) = Tota		<u> </u>	Hydrophytic				
			;1	Vegetation			,	
% Bare Ground in Herb Stratum	tic Crust	U		Present?	Yes	No <u>_</u>	<u>′</u>	
Remarks:								

	ator or confirm the absence of indicators.)
Depth         Matrix         Redox Features           (inches)         Color (moist)         %         Color (moist)         %         Ty	rpe <sup>1</sup> Loc <sup>2</sup> Texture Remarks
0-3 7.5 YR 3/2 93 5 yr 5/8 7 C	PL/M Silty clay
	<u> </u>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or 0	Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
	-
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	1 cm Muck (A9) ( <b>LRR C</b> ) 2 cm Muck (A10) ( <b>LRR B</b> )
Black Histic (A3) Loamy Mucky Mineral (F1	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F	7)
Thick Dark Surface (A12) Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
Restrictive Layer (if present):	
Type: Clay	
Depth (inches): 2	Hydric Soil Present? Yes No
Remarks:	
HYDROLOGY Wetland Hydrology Indicators:	
	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (Marks (B1))	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (Marks (B1))	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Along Living Roots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres and C)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) C1) Drainage Patterns (B10) Dry-Season Water Table (C2) On (C4) Crayfish Burrows (C8)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres at the presence of Reduced Iron         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) C1) Drainage Patterns (B10) Dry-Season Water Table (C2) On (C4) Crayfish Burrows (C8)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Sulface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B12)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G12)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres at a presence of Reduced Iron Surface Soil Cracks (B6)         Surface Soil Cracks (B6)       Recent Iron Reduction in the context of the co	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) C1) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C5) Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Sulf Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (COME)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres at a price of Reduced Incomplete (B3)         Surface Soil Cracks (B6)       Recent Iron Reduction in Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) C1) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C5) Shallow Aquitard (D3)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) On (C4) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C5) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B12)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G12)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres at the presence of Reduced Iron (G12)         Surface Soil Cracks (B6)       Recent Iron Reduction in Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:       No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2) (Nonriverine)       Presence of Reduced Inc.         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Inc.         Surface Soil Cracks (B6)       Recent Iron Reduction in Reduction in Inc.         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       ✓       Depth (inches):         Water Table Present?       Yes       No       ✓       Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C3) Dry-Season Water Table (C5) Dry-Season Water Table (
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2) (Nonriverine)       Presence of Reduced Inc.         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Inc.         Surface Soil Cracks (B6)       Recent Iron Reduction in Reduction in Inc.         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       ✓       Depth (inches):         Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C3) Dry-Season Water Table (C5) Dry-Season Water Table (
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres at Presence of Reduced Inc.         Surface Soil Cracks (B6)       Recent Iron Reduction in Reduction in Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       ✓       Depth (inches):         Water Table Present?       Yes       No       ✓       Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes ✓ No
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres at the presence of Reduced Inc.         Surface Soil Cracks (B6)       Recent Iron Reduction in Reduction in Inc.         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes ✓ No
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres at the presence of Reduced Inc.         Surface Soil Cracks (B6)       Recent Iron Reduction in Reduction in Inc.         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes ✓ No
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2) (Nonriverine)       Presence of Reduced Inc.         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Inc.         Surface Soil Cracks (B6)       Recent Iron Reduction in.         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):         (includes capillary fringe)       Depth (inches):         (includes Capillary fringe)       Depth (inches):         (includes Capillary fringe)       No Or Depth (inches):         (includes Capillary fringe)       Capillary fringe)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes ✓ No
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2) (Nonriverine)       Presence of Reduced Inc.         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Inc.         Surface Soil Cracks (B6)       Recent Iron Reduction in.         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):         (includes capillary fringe)       Depth (inches):         (includes Capillary fringe)       Depth (inches):         (includes Capillary fringe)       No Or Depth (inches):         (includes Capillary fringe)       Capillary fringe)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes ✓ No
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (G         Sediment Deposits (B2) (Nonriverine)       Presence of Reduced Inc.         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Inc.         Surface Soil Cracks (B6)       Recent Iron Reduction in.         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Water Table Present?       Yes No ✓ Depth (inches):         Saturation Present?       Yes No ✓ Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)  Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes ✓ No

Project/Site: Sloughhouse Solar Energy Project	City/Co	unty: Sacram	ento County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	_ Sampling Point: _	51
Investigator(s): A, Sennett, A. Godinho, L. Burris	Section	n, Township, R	ange: Township 7N / Ra	ange 7E / Sectior	n 11
Landform (hillslope, terrace, etc.): Flatland	Local r	elief (concave	, convex, none): Concave	Slor	oe (%):0
Subregion (LRR): Lat:					
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slope					
Are climatic / hydrologic conditions on the site typical for this time of					
Are Vegetation			"Normal Circumstances"		No <b>√</b>
Are Vegetation, Soil, or Hydrology naturally			needed, explain any answe		
SUMMARY OF FINDINGS – Attach site map show					oturos oto
SOWMANT OF FINDINGS - Attach site map show	IIIg Saiiiļ	oning point	Tocations, transects	s, important re	atures, etc.
Hydrophytic Vegetation Present? Yes No		Is the Sample	ed Area		
Hydric Soil Present? Yes   ✓ No		within a Wetla	and? Yes <u></u>	/ No	•
Wetland Hydrology Present? Yes ✓ No					
Associated Feature: VP-04 Grazing, hoof punch					
VEGETATION – Use scientific names of plants.					
Absol   Tree Stratum (Plot size:)		nant Indicator les? Status			
1		· ·	<ul> <li>Number of Dominant S</li> <li>That Are OBL, FACW,</li> </ul>		(A)
2			Total Number of Domii	nant	
3					(B)
4			Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size:)	) = Tota	al Cover	That Are OBL, FACW,		0 (A/B)
1			Prevalence Index wo	rksheet:	
2.				Multiply	y by:
3			OBL species	x 1 =	
4			FACW species	x 2 =	
5			FAC species		
Herb Stratum (Plot size: 5m x 5m )	= Tota	al Cover	FACU species		
1. Hordeum marinum 10	0 Y	FAC	UPL species		
			- Column Totals:	(A)	(D)
	<u> N</u>	FAC	Prevalence Index	x = B/A =	
	5 <u>Y</u>	FAC	Hydrophytic Vegetati	on Indicators:	
5			_ ✓ Dominance Test is		
6					
7				aptations <sup>1</sup> (Provide ks or on a separate	
8			Problematic Hydro	•	*
Woody Vine Stratum (Plot size:)	<u>5</u> = Tota	al Cover			
1			<sup>1</sup> Indicators of hydric so		
2			be present, unless dist	urbed or problemat	tic.
0	) = Tota	al Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum55	tic Crust	0		es <u> </u>	
Remarks:			1		

		to the de	oth needed to docu			or confirm	the absence of	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-3	7.5 YR 3/2	93	5 yr 5/8	7		PL/M	Silty clay			
	<u>-</u>		<u>-</u>		_					
				_						
					-					
					-					
					-		•			
					-					
			=Reduced Matrix, C			ed Sand Gr		ation: PL=Pore Lining, M=Matrix.		
-		cable to all	I LRRs, unless othe		ied.)			for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1) Dipedon (A2)		Sandy Red Stripped M	. ,				uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )		
Black Hi			Suipped M		al (F1)			ed Vertic (F18)		
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)		
	d Layers (A5) (LRR	C)	Depleted N					Explain in Remarks)		
	ıck (A9) ( <b>LRR D</b> )		Redox Dar		. ,					
	d Below Dark Surfac	e (A11)	Depleted D				3			
Thick Dark Surface (A12)								of hydrophytic vegetation and		
	Gleyed Matrix (S4)		vernal Poo	ois (F9)			wetland hydrology must be present, unless disturbed or problematic.			
	Layer (if present):						unicss un	starbed of problematic.		
	ay Hardpan									
Depth (in							Hydric Soil I	Present? Yes √ No		
Remarks:							, , , , , ,			
HYDROLO	GY									
Wetland Hy	drology Indicators:									
Primary India	cators (minimum of o	one require	ed; check all that app	ly)			Second	dary Indicators (2 or more required)		
	Water (A1)		Salt Crus	` ,			Water Marks (B1) (Riverine)			
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)				ediment Deposits (B2) (Riverine)		
Saturation	, ,		Aquatic Ir		, ,		<del></del>	ift Deposits (B3) (Riverine)		
· ·	larks (B1) (Nonrive	•	Hydrogen					ainage Patterns (B10)		
	nt Deposits (B2) (No				-	_		y-Season Water Table (C2)		
	oosits (B3) (Nonrive	erine)	Presence					ayfish Burrows (C8)		
	Soil Cracks (B6) on Visible on Aerial	Imagany (E				d Soils (C6		aturation Visible on Aerial Imagery (C9)		
· · · · · · · · · · · · · · · · · · ·	tained Leaves (B9)	iiiageiy (E	· —	plain in Re	. ,			nallow Aquitard (D3) NC-Neutral Test (D5)		
Field Obser	( )		Outer (Ex	Piairiiiii	ornarko)			To recutal rest (D3)		
Surface Wat		/es	No <u>✓</u> Depth (ir	rches).						
Water Table			No ✓ Depth (ir							
Saturation P			No ✓ Depth (ir				and Hydrology	Present? Yes No		
(includes car	oillary fringe)							1103cm: 103 <u>-v</u> 110 <u></u>		
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:			
Remarks:										

Project/Site: Sloughhouse Solar Energy Project		City/Count	<sub>ty:</sub> Sacrame	nto County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	52
Investigator(s): A, Sennett, A. Godinho, L. Burris	§	Section, T	ownship, Ra	nge: Township 7N / F	Range 7E / Section	11
Landform (hillslope, terrace, etc.): Flatland		Local relie	ef (concave,	convex, none): None	Slop	oe (%):0
Subregion (LRR):	Lat: 38.	4726118	35	Long: -121. 173080	9 Datur	m: WGS84
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% s				-		
Are climatic / hydrologic conditions on the site typical for this t						
Are Vegetation, Soil, or Hydrology sig				"Normal Circumstances		No <b>√</b>
Are Vegetation, Soil, or Hydrology nat				eeded, explain any ansv		
SUMMARY OF FINDINGS – Attach site map sl						atures, etc.
Hydrophytic Vegetation Present? Yes No					· ·	· · · · · · · · · · · · · · · · · · ·
Hydric Soil Present? Yes ✓ No			the Sampled		No.	
Wetland Hydrology Present? Yes No Remarks:	✓	Wit	hin a Wetlar	nd? fes	No	•
Associated Feature: SW15						
Grazed						
VEGETATION – Use scientific names of plants	S.					
			nt Indicator	Dominance Test wo	rksheet:	
			? Status	Number of Dominant That Are OBL, FACW		(A)
1				That Are OBL, FACW	, or FAC	(A)
3				Total Number of Dom Species Across All St		(B)
4.						(D)
	0			Percent of Dominant That Are OBL, FACW		(A/B)
Sapling/Shrub Stratum (Plot size:)						
1				Total % Cover of		, by:
2				OBL species		
3 4				FACW species		
5				FAC species		
				FACU species		
Herb Stratum (Plot size: 5m x 5m )				UPL species	x 5 =	
1. Bromus hordeaceus		Y	<u>FACU</u>	Column Totals:	(A)	(B)
2. <u>Holocarpha virgate</u>			_ NL	Provolence Inde	ex = B/A =	
3. <u>Festuca perennis</u>				Hydrophytic Vegeta		
4				Dominance Test		
5 6				Prevalence Index		
7					daptations <sup>1</sup> (Provide	supporting
8.				data in Rema	rks or on a separate	sheet)
		= Total C		Problematic Hydi	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)				1		
1				<sup>1</sup> Indicators of hydric s be present, unless dis		
2				Hydrophytic	·	
_		= Total C		Vegetation		
% Bare Ground in Herb Stratum5	of Biotic Cr	ust	0	Present?	/es No	✓
Remarks:						

SOIL Sampling Point: 52

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redo:	x Feature	s			oo oa.oatoro.y			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u>Remarks</u>			
0-3	7.5 YR 3/2	93	5 yr 5/8	7	С	PL/M	Silty clay				
	-							<del>-</del>			
				-				_			
<sup>1</sup> Type: C=Co	oncentration, D=De	nletion, RM	I=Reduced Matrix, CS	S=Covered	d or Coate	d Sand Gr	rains. <sup>2</sup> I	Location: PL=Pore Lining, M=Matrix.			
			I LRRs, unless other					ors for Problematic Hydric Soils <sup>3</sup> :			
Histosol			Sandy Redo		·		1 cn	n Muck (A9) (LRR C)			
	pipedon (A2)		Stripped Ma	, ,				n Muck (A10) ( <b>LRR B</b> )			
Black Hi	stic (A3)		Loamy Muc	ky Minera	l (F1)		Red	luced Vertic (F18)			
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)								l Parent Material (TF2)			
	Layers (A5) (LRR	C)	Depleted Ma	, ,			Oth	er (Explain in Remarks)			
	ick (A9) (LRR D)	(0.4.4)	<u>✓</u> Redox Dark		. ,						
Depleted Below Dark Surface (A11)							3Indicate	ors of hydrophytic vegetation and			
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9)								nd hydrology must be present,			
	leyed Matrix (S4)			0 (1 0)				s disturbed or problematic.			
	_ayer (if present):							·			
Type: Cla	ay Hardpan										
Depth (inc	ches): <u>3</u>						Hydric S	oil Present? Yes ✓ No			
Remarks:	·										
HYDROLO	GY										
	drology Indicators	<b>3</b> :									
_			ed; check all that apply	<b>(</b> )			Secondary Indicators (2 or more required)				
	Water (A1)	one require	Salt Crust								
	iter Table (A2)		Biotic Crus	` '			<pre> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)</pre>				
Saturation	,		Aquatic Inv	` '	s (B13)		Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)				
	arks (B1) ( <b>Nonrive</b>	rine)	Hydrogen				_	Drainage Patterns (B10)			
	nt Deposits (B2) (No					Livina Roo	ots (C3)	Dry-Season Water Table (C2)			
	oosits (B3) ( <b>Nonriv</b>		Presence		_	_		Crayfish Burrows (C8)			
-	Soil Cracks (B6)	,	Recent Iro				 S)	Saturation Visible on Aerial Imagery (C9)			
	on Visible on Aerial	Imagery (E				`		Shallow Aquitard (D3)			
	tained Leaves (B9)		Other (Exp					FAC-Neutral Test (D5)			
Field Observ	, ,							. ,			
Surface Water	er Present?	Yes	No <u>✓</u> Depth (inc	ches):							
Water Table			No ✓ Depth (inc								
Saturation Pr			No ✓ Depth (inc				and Hydrol	ogy Present? Yes No _ ✓			
(includes cap	oillary fringe)	100	No Bopui (iii	orico)		_	una myanon				
Describe Red	corded Data (strear	m gauge, m	nonitoring well, aerial p	ohotos, pr	evious ins	pections),	if available:				
Remarks:											

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacramei	nto County	_ Sampling Date:10/2	28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point:	53
Investigator(s): L. Burris, A. Sennet, A. Godinho						
Landform (hillslope, terrace, etc.): flatland				=		
Subregion (LRR):						
Soil Map Unit Name: Galt clay, 2 - 5% slopes						
Are climatic / hydrologic conditions on the site typical for this ti						
Are Vegetation soil , or Hydrology sig					present? Yes I	No. ✓
Are Vegetation, Soil, or Hydrology nat				eeded, explain any answ		<u> </u>
SUMMARY OF FINDINGS – Attach site map sl			,		ŕ	es, etc.
Hydrophytic Vegetation Present? Yes No						
Hydrophytic Vegetation Present? Yes No	<u>√</u>		e Sampled			
Wetland Hydrology Present? Yes ✓ No.		with	in a Wetlan	ıd? Yes	No <u></u>	
Remarks:		I				
Associated feature: SW 16. Grazing.						
g.						
VEGETATION – Use scientific names of plants						
· · · · · · · · · · · · · · · · · · ·		Dominant	Indicator	Dominance Test wor	rkahaati	
		Species?		Number of Dominant S		
1				That Are OBL, FACW,		_ (A)
2				Total Number of Domi	inant	
3				Species Across All Str		_ (B)
4				Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW	, or FAC: 0	_ (A/B)
1				Prevalence Index wo	orksheet:	
2				Total % Cover of:	Multiply by:	
3				OBL species	x 1 =	<u></u>
4					x 2 =	
5				-	x 3 =	
Herb Stratum (Plot size: 5m x 5m )		= Total Co	ver		x 4 =	
1. Bromus hordeaceus	55	Υ	FACU		x 5 =	
2. Holocarpha virgata	15	N	NL	Column Totals:	(A)	(B)
3. Festuca perennis	5	N	FAC	Prevalence Inde	ex = B/A =	
4. Hordeum murinum	10	N	FACU	Hydrophytic Vegetat		
5				Dominance Test is		
6				Prevalence Index		
7				Morphological Ada data in Remar	laptations <sup>1</sup> (Provide suppo ks or on a separate sheet	orting t)
8					ophytic Vegetation <sup>1</sup> (Expl	
Woody Vine Stratum (Plot size:)	03	= Total Co	ver			·
1					oil and wetland hydrology	must
2				be present, unless dis	sturbed or problematic.	
_		= Total Co	ver	Hydrophytic		
% Bare Ground in Herb Stratum15 % Cover o	f Biotic Cr	rust		Vegetation Present? Yes	es No <u>√</u>	
Remarks:						

Depth Matrix						f indicators.)			
		ox Feature	1	1 - 2	T t	Demode			
(inches) Color (moist) %	Color (moist)	%	Type'	Loc <sup>2</sup>	<u>Texture</u>	Remarks			
0-2 7.5 YR 2.5/3 97	5 YR 5/8	_ 3	<u>C</u>	<u>PL</u>	Silty Clay				
		_							
		_							
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, C	S=Covered	d or Coate	d Sand Gr	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.			
Hydric Soil Indicators: (Applicable to all	LRRs, unless other	erwise not	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :			
Histosol (A1)	Sandy Red	lox (S5)			1 cm Mu	ıck (A9) ( <b>LRR C</b> )			
Histic Epipedon (A2)	Stripped M				<del></del>	ıck (A10) ( <b>LRR B</b> )			
Black Histic (A3)	Loamy Mu					d Vertic (F18)			
Hydrogen Sulfide (A4)	Loamy Gle		(F2)			ent Material (TF2)			
<pre> Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D)</pre>	Depleted N Redox Dar	, ,	(E6)		Other (E	xplain in Remarks)			
Depleted Below Dark Surface (A11)	Redox Dai		,						
Thick Dark Surface (A12)	Redox Dep		. ,		<sup>3</sup> Indicators o	f hydrophytic vegetation and			
Sandy Mucky Mineral (S1)	Vernal Poo		,			ydrology must be present,			
Sandy Gleyed Matrix (S4)						turbed or problematic.			
Restrictive Layer (if present):									
Type: clay									
Depth (inches): 2					Hydric Soil F	Present? Yes No			
Remarks:									
HYDROLOGY									
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one require	ed; check all that app	oly)			Second	lary Indicators (2 or more required)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require						lary Indicators (2 or more required)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)	Salt Crus	t (B11)			Wa	ater Marks (B1) (Riverine)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)	Salt Crus Biotic Cru	t (B11) ist (B12)	s (B13)		Wa	uter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crus Biotic Cru Aquatic Ir	t (B11) ist (B12) nvertebrate			Wa Se Dri	tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> )			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger	t (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)	Living Roo	Wa Se Dri Dra	tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ust (B12) nvertebrate n Sulfide Oo	dor (C1) res along	-	Wa Se Dra Dra ots (C3) Dry	tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) r-Season Water Table (C2)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger _ ✓ Oxidized Presence	t (B11) ust (B12) nvertebrate n Sulfide Oo	dor (C1) res along ed Iron (C4	4)	Wa Se Dri Drs Drs Cra	tter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	Salt Crus Biotic Cru Aquatic Ir Hydroger _/ Oxidized Presence Recent Ir	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (C4 on in Tille	4)	Wa Se Dri Dra Drs Cra Cra	tter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide Oo Rhizosphe of Reduce	dor (C1) res along ed Iron (C <sup>2</sup> on in Tille C7)	4)	Wa See Dri Dra ots (C3) Dry Cra 6) Sae Sh.	ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate Sulfide Oo Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along ed Iron (C <sup>2</sup> on in Tille C7)	4)	Wa See Dri Dra ots (C3) Dry Cra 6) Sae Sh.	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Bay Water-Stained Leaves (B9)  Field Observations:	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) evertebrate a Sulfide Or Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along d Iron (C4 on in Tille C7) emarks)	d Soils (C6	Wa See Dri Dra ots (C3) Dry Cra 6) Sae Sh.	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (Butter)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate s Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( plain in Re	dor (C1) res along d Iron (C4 on in Tille C7) marks)	H)  d Soils (C6	Wa See Dri Dra ots (C3) Dry Cra 6) Sae Sh.	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes Water Table Present? Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Geduce on Reducti lk Surface ( pplain in Re linches):	dor (C1) res along ed Iron (C4 on in Tille C7) emarks)	H) H Soils (C6	Wa Se Dri Dra ots (C3) Dry Cra S) Sa Sh FA	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( eplain in Re anches): nches): nches):	dor (C1) res along d Iron (C4 on in Tille C7) emarks)	d Soils (C6	Wa Se Dri Dra ots (C3) Dry Cra S) Sa Sh FA	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (BWater-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( eplain in Re anches): nches): nches):	dor (C1) res along d Iron (C4 on in Tille C7) emarks)	d Soils (C6	Wa Se Dri Dra ots (C3) Dry Cra S) Sa Sh FA	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and support of the following in t	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( eplain in Re anches): nches): nches):	dor (C1) res along d Iron (C4 on in Tille C7) emarks)	d Soils (C6	Wa Se Dri Dra ots (C3) Dry Cra S) Sa Sh FA	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( eplain in Re anches): nches): nches):	dor (C1) res along d Iron (C4 on in Tille C7) emarks)	d Soils (C6	Wa Se Dri Dra ots (C3) Dry Cra S) Sa Sh FA	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and support of the following in t	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( eplain in Re anches): nches): nches):	dor (C1) res along d Iron (C4 on in Tille C7) emarks)	d Soils (C6	Wa Se Dri Dra ots (C3) Dry Cra S) Sa Sh FA	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and support of the following in t	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( eplain in Re anches): nches): nches):	dor (C1) res along d Iron (C4 on in Tille C7) emarks)	d Soils (C6	Wa Se Dri Dra ots (C3) Dry Cra S) Sa Sh FA	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and support of the following in t	Salt Crus Biotic Cru Aquatic Ir Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide Oo Rhizosphe of Reduce on Reducti k Surface ( eplain in Re anches): nches): nches):	dor (C1) res along d Iron (C4 on in Tille C7) emarks)	d Soils (C6	Wa Se Dri Dra ots (C3) Dry Cra S) Sa Sh FA	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)			

Project/Site: Sloughhouse Solar Energy Project	<sub>unty:</sub> Sacrame	ento County	Sampling Date:	10/28/2020	
Applicant/Owner: D.E. Shaw Renewable Investments				· -	
Investigator(s): L. Burris, A. Sennett, and A. Godinho					
Landform (hillslope, terrace, etc.): <u>flatland</u>			_		
Subregion (LRR): Lat					
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slope					
Are climatic / hydrologic conditions on the site typical for this time					,
Are Vegetation, Soil, or Hydrology signific			"Normal Circumstance		No <u></u>
Are Vegetation, Soil, or Hydrology natural	lly problemati	ic? (If ne	eeded, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map show	wing samp	oling point l	ocations, transed	cts, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes No _▼	/				
Hydric Soil Present? Yes   ✓ No		Is the Sampled		/	
Wetland Hydrology Present? Yes   ✓ No		within a Wetla	nd? Yes_	No <u>√</u>	_
Remarks:					
Associated Feature: Upland 01a					
Slight depression in grassland. No change in veg	etation fr	om surroun	nding upland Graz	zing.	
			iamb apiana era.	6.	
VEGETATION – Use scientific names of plants.					
		nant Indicator	Dominance Test w		
		es? Status	Number of Dominan		) (A)
1			That Are OBL, FAC	w, or FAC.	<u>) (A)</u>
2			Total Number of Do		L(B)
4			Species Across All S	Silaia	(B)
	0 = Tota		Percent of Dominan		) (A/B)
Sapling/Shrub Stratum (Plot size:)			That Are OBL, FAC	W, or FAC:	) (A/B)
1			Prevalence Index v	vorksheet:	
2			Total % Cover of	of: Multip	ly by:
3				x 1 =	
4				x 2 =	
5			-	x 3 =	
Herb Stratum (Plot size: 5m by 5 m)	<u>0</u> = Tota	al Cover	· ·	x 4 =	
	10 N	NL	UPL species		
	55 Y		Column Totals:	(A)	(B)
		NL	Prevalence Inc	dex = B/A =	
		FAC	Hydrophytic Veget	<u> </u>	
5			Dominance Tes		
6			Prevalence Inde		
7				Adaptations <sup>1</sup> (Provide	supporting
8.				arks or on a separate	,
	85 = Tota		Problematic Hy	drophytic Vegetation	(Explain)
Woody Vine Stratum (Plot size:)					
1				soil and wetland hyd disturbed or problema	
2			be present, unless t	disturbed of problema	ilio.
	<u>0</u> = Tota	al Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum15 % Cover of Bio	otic Crust	0		Yes No	✓
Remarks:			1		

Depth	cription: (Describe Matrix	to the dep		ox Feature		or comm	ii tiie absei	ice of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u> %</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0-2	7.5 YR 3/2	93		- <u></u>			Silty clay	<u> </u>
	7.0 0, =		3 5/ 5				<u> </u>	
	· -				-			
					-			
		_		_	-			
					-			
					-			
	- <u> </u>							
	Concentration, D=Dep					ed Sand G	rains. 2	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	erwise not	ted.)		Indicate	ors for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Sandy Red	dox (S5)			1 c	m Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	latrix (S6)			2 c	m Muck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral				al (F1)		Re	duced Vertic (F18)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)							d Parent Material (TF2)	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)							Oth	ner (Explain in Remarks)
	uck (A9) (LRR D)		<u>✓</u> Redox Dai		` '			
	ed Below Dark Surfac	ce (A11)	Depleted [				31 11 4	
Thick Dark Surface (A12) Redox Depressions (F8)						ors of hydrophytic vegetation and		
Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4)							and hydrology must be present, ss disturbed or problematic.	
	Layer (if present):						unies	ss disturbed of problematic.
Type: Cl								
							11	Dall Brown (O. Wasser / No.
	nches): 2						Hydric S	Soil Present? Yes No
Remarks:								
ı								
HYDROLO	OGY							
Wetland Hy	drology Indicators	:						
Primary Indi	icators (minimum of	one required	d; check all that app	oly)			Se	econdary Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	t (B11)				Water Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru	` ,				Sediment Deposits (B2) (Riverine)
Saturat	` '		Aquatic II		es (B13)			Drift Deposits (B3) (Riverine)
· · · · · · · · · · · · · · · · · · ·	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydroger					_ Drainage Patterns (B10)
· · · · · · · · · · · · · · · · · · ·	ent Deposits (B2) ( <b>No</b>	•	· · · · ·			Living Ro		Dry-Season Water Table (C2)
	eposits (B3) (Nonrive		Presence		-	-		Crayfish Burrows (C8)
	e Soil Cracks (B6)	iiiie)	Recent Ir					Saturation Visible on Aerial Imagery (C9)
	` '	Imagani (D				u Solis (Ci		
	tion Visible on Aerial	illiagery (D	· —		. ,			Shallow Aquitard (D3)
Field Obse	Stained Leaves (B9)		Other (Ex	фан н К	emarks)			_ FAC-Neutral Test (D5)
			Na / Bardi (					
			No <u>✓</u> Depth (ii					
Water Table			No <u>√</u> Depth (ii					,
Saturation F		/es	No <u>✓</u> Depth (iı	nches):		Wet	land Hydro	logy Present? Yes No
	pillary fringe) ecorded Data (strean	n dalide mo	nitoring well aerial	nhotos ni	revious ins	nections)	if available	
Dodding I'd	sooraoa Bata (otroan	i gaago, iiic	Timorning Woll, dorlar	priotoo, pr		,,	ii availabio.	•
Remarks:								
Nemaiks.								

Project/Site: Sloughhouse Solar Energy Project	(	City/Count	<sub>y:</sub> Sacrame	nto County	Sampling Date: _	10/28/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	55
Investigator(s): L. Burris, A. Sennet, A. Godinho		Section, T	ownship, Ra	nge: Township 7N / Ra	ange 7E / Section	n 11
Landform (hillslope, terrace, etc.): hilltop		Local relie	ef (concave,	convex, none): concave	Slo	oe (%):0
Subregion (LRR):						
Soil Map Unit Name: Peters clay, 1 - 8% slopes						
Are climatic / hydrologic conditions on the site typical for t						
Are Vegetation _ ✓ , Soil, or Hydrology				'Normal Circumstances" p		No <b>√</b>
Are Vegetation, Soil, or Hydrology	-			eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site ma						atures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓  Yes  ✓  Yes  ✓  Yes  ✓	No		he Sampled hin a Wetlar		′ No	
Associated feature: SW 20. Small depress	sion on hil	ltop. Gr	azing			
VEGETATION – Use scientific names of pla	ints.					
Tree Stratum (Plot size:) 1	Absolute % Cover	Species?		Number of Dominant S That Are OBL, FACW,	Species	(A)
2				Total Number of Domin Species Across All Stra		(B)
4				Percent of Dominant S That Are OBL, FACW,		0 (A/B)
1				Prevalence Index wor	ksheet:	
2.				Total % Cover of:	Multiply	y by:
3				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species		
Herb Stratum (Plot size: 5m x 5m		= Total C	over	FACU species		
1. Phalaris paradoxa	10	Υ	FAC	UPL species		
2. Rumex crispus	15	Υ	FAC	Column Totals:	(A)	(D)
3. Festuca perennis	20	Υ	FAC	Prevalence Index	c = B/A =	
4. Eryngium castrense	5	N	OBL	Hydrophytic Vegetation	on Indicators:	
5				✓ Dominance Test is		
6				Prevalence Index i		
7				Morphological Ada	aptations' (Provide s or on a separate	
8	= 0			Problematic Hydro		,
Woody Vine Stratum (Plot size:)		= Total C	over			
1				<sup>1</sup> Indicators of hydric so be present, unless dist		
			over	Hydrophytic		
% Bare Ground in Herb Stratum 50 % Cov	ver of Biotic C	rust	0	Vegetation Present? Ye	es <u>√</u> No _	
Remarks:				•		

SOIL

Sampling Point: 55

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Color (moist)	lox Feature  %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 3/2	90	5 YR 4/6	10	С	PL	silty clay	
	· <u></u>				_		-	
	· -				_			
				<u> </u>				
						-		
Type: C=C	Concentration, D=De	pletion, RM	l=Reduced Matrix, C	CS=Covere	ed or Coat	ed Sand G	rains. <sup>2</sup> L	ocation: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators: (Appli	cable to al	I LRRs, unless oth	erwise no	ted.)		Indicator	s for Problematic Hydric Soils <sup>3</sup> :
Histoso			Sandy Re					Muck (A9) ( <b>LRR C</b> )
	pipedon (A2)			Matrix (S6)	ol (E1)			Muck (A10) (LRR B)
	listic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle					uced Vertic (F18) Parent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	<b>C</b> )	Depleted I	•	. ,			r (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	•	Redox Da	, ,			00	(Explain in Nomanio)
	ed Below Dark Surfa	ce (A11)	Depleted I		. ,			
Thick D	ark Surface (A12)		✓ Redox De	pressions	(F8)		<sup>3</sup> Indicator	s of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Po	ols (F9)				d hydrology must be present,
	Gleyed Matrix (S4)						unless	disturbed or problematic.
	Layer (if present):							
Type: cla								
. ,	nches): 2						Hydric So	il Present? Yes <u>√</u> No
Remarks:	, <del>-</del>						Hydric So	Il Present? Yes <u>v</u> No
Remarks:	OGY	s:					Hydric So	il Present? Yes V No
Remarks:  YDROLO Wetland Hy	DGY rdrology Indicators		ed: check all that ap	olv)				
YDROLC Wetland Hy Primary Indi	OGY rdrology Indicators cators (minimum of		ed; check all that app				Sec	ondary Indicators (2 or more required)
YDROLO Wetland Hy Primary Indi Surface	DGY rdrology Indicators		Salt Crus				Seco	
YDROLO Wetland Hy Primary Indi Surface	OGY rdrology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus	st (B11) ust (B12)	es (B13)		Seco	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
YDROLC Wetland Hy Primary Indi Surface High W. Saturati	OGY rdrology Indicators cators (minimum of Water (A1) ater Table (A2)	one require	Salt Crus Biotic Crus Aquatic I	st (B11) ust (B12)	. ,		Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M	ogy rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3)	one require	Salt Crus Biotic Cru Aquatic I Hydroge	st (B11) ust (B12) nvertebrat n Sulfide C	odor (C1)	J Living Roc	Second —	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks:   YDROLO   Wetland Hy   Primary Indi   Surface   High W.   Saturati   Water M.   Sedime	ogy rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	one require erine) onriverine)	Salt Crus Biotic Cr Aquatic I Hydrogei Oxidized	st (B11) ust (B12) nvertebrat n Sulfide C	odor (C1) eres along	_	<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLO Wetland Hy Primary Indi Surface High W Saturati Water N Sedime Drift De	ody rdrology Indicators reators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	one require erine) onriverine)	Salt Crus Biotic Cr Aquatic I Hydrogei Oxidized	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph	odor (C1) eres along ed Iron (C	(4)	<u>Sec</u>	water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De Surface	ordrology Indicators (cators (minimum of Water (A1) (A2) (Ion (A3) (Marks (B1) (Nonrive (Int Deposits (B2) (Nonrive (Int Deposits (B3) (Nonrive	one require erine) onriverine) erine)	Salt Crus Biotic Cri Aquatic I Hydrogei Oxidized Presencei Recent I	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphe of Reduct ron Reduct	odor (C1) eres along ed Iron (C tion in Tille	(4)	Secondary Second	water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
YDROLC Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De Surface Inundat	ordrology Indicators (cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (Nonrive Soil Cracks (B6)	one require erine) conriverine) erine)	Salt Crus Biotic Cri Aquatic I Hydrogei ✓ Oxidized Presence Recent Ii	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphe of Reduct ron Reduct	odor (C1) eres along ed Iron (C tion in Tille (C7)	(4)	Secondary Second	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser	redrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) reations:	one require erine) onriverine; erine)	Salt Crus Biotic Cru Aquatic I Hydroge VOxidized Presence Recent II Thin Muc	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduct ron Reduct ck Surface xplain in R	Odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	(4) ed Soils (Ce	Secondary Second	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser	rdrology Indicators recators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ont Deposits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	one require erine) onriverine) erine) Imagery (E	Salt Crus Biotic Cr Aquatic I Hydroge ✓ Oxidized Presence Recent II Thin Muc Other (E:	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduct ron Reduct ck Surface xplain in R	Odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	ed Soils (Ce	Secondary Second	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser	redrology Indicators (cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ont Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	one require erine) onriverine) erine) I Imagery (E	Salt Crus Biotic Cri Aquatic I Hydrogei ✓ Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduct ron Reduct ck Surface xplain in R nches): nches):	Odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	ed Soils (C6	Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLO Wetland Hy Primary Indi Surface High W. Saturati Water N. Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ont Deposits (B2) (Nonrive ont Deposits (B3) (Nonrive ont Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	one require erine) onriverine) erine) I Imagery (E	Salt Crus Biotic Cr Aquatic I Hydroge ✓ Oxidized Presence Recent II Thin Muc Other (E:	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduct ron Reduct ck Surface xplain in R nches): nches):	Odor (C1) eres along ed Iron (C tion in Tille (C7) emarks)	ed Soils (C6	Secondary Second	Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
YDROLC Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ont Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present? pillary fringe)	one require erine) onriverine) erine) I Imagery (E Yes Yes	Salt Crus Biotic Cri Aquatic I Hydrogei ✓ Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphi e of Reduct ron Reduct ck Surface xplain in R nches): nches): nches): nches):	Odor (C1) eres along ed Iron (C tion in Tilla (C7) emarks)	.4) ed Soils (C6	Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks:    YDROLC     Wetland Hy     Primary Indi     Surface     High W     Saturati     Water N     Sedime     Drift De     Surface     Inundat     Water-S     Field Obsel     Surface Wa     Water Table     Saturation F     (includes ca     Describe Reserved	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ont Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present? pillary fringe)	one require erine) onriverine) erine) I Imagery (E Yes Yes	Salt Crus Biotic Cri Aquatic I Hydrogei ✓ Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphi e of Reduct ron Reduct ck Surface xplain in R nches): nches): nches): nches):	Odor (C1) eres along ed Iron (C tion in Tilla (C7) emarks)	.4) ed Soils (C6	Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLO Wetland Hy Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ont Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present? pillary fringe)	one require erine) onriverine) erine) I Imagery (E Yes Yes	Salt Crus Biotic Cri Aquatic I Hydrogei ✓ Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphi e of Reduct ron Reduct ck Surface xplain in R nches): nches): nches): nches):	Odor (C1) eres along ed Iron (C tion in Tilla (C7) emarks)	.4) ed Soils (C6	Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLC Wetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ont Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require erine) onriverine) erine) I Imagery (E Yes Yes	Salt Crus Biotic Cri Aquatic I Hydrogei ✓ Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphi e of Reduct ron Reduct ck Surface xplain in R nches): nches): nches): nches):	Odor (C1) eres along ed Iron (C tion in Tilla (C7) emarks)	.4) ed Soils (C6	Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLO Wetland Hy Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ont Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require erine) onriverine) erine) I Imagery (E Yes Yes	Salt Crus Biotic Cri Aquatic I Hydrogei ✓ Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphi e of Reduct ron Reduct ck Surface xplain in R nches): nches): nches): nches):	Odor (C1) eres along ed Iron (C tion in Tilla (C7) emarks)	.4) ed Soils (C6	Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	Ci	ty/County:	Sacramer	nto County	Sampling Date: 10	0/30/2020	
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	56	
Investigator(s): L. Burris and A. Godinho	S	ection, Tov	vnship, Rar	Range: Township 7N / Range 7E / Section 11			
Landform (hillslope, terrace, etc.): flatland	L	Local relief (concave, convex, none): None Slope (%): 0					
Subregion (LRR): C	ıt: <u>38.4</u> 6	68541977	3286	Long: -121.17501438	3415 Datum:	WGS84	
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slop							
Are climatic / hydrologic conditions on the site typical for this time							
Are Vegetation signification						No ✓	
Are Vegetation, Soil, or Hydrology natura							
SUMMARY OF FINDINGS – Attach site map sho						ures, etc.	
Hydrophytic Vegetation Present? Yes _ ✓ No Hydric Soil Present? Yes _ ✓ No			Sampled		,		
Wetland Hydrology Present? Yes ✓ No		withi	n a Wetlan	ıd? Yes <u>√</u>	No		
Remarks:							
Point taken within SW-21. Grazed, gopher bur	rows						
VECETATION . Has accontific names of plants							
VEGETATION – Use scientific names of plants.	a alusta	Dominant	Indicator I	Deminence Test work	rob a ati		
		Dominant Species?		Dominance Test work  Number of Dominant Sp			
1				That Are OBL, FACW, of		(A)	
2				Total Number of Domin	ant		
3				Species Across All Stra		(B)	
4				Percent of Dominant Sp	pecies		
Sapling/Shrub Stratum (Plot size:)	=	= Total Cov	er	That Are OBL, FACW, o	or FAC: 100	(A/B)	
1				Prevalence Index wor	ksheet:		
2.				Total % Cover of:	Multiply by	<u>/:</u>	
3				OBL species	x 1 =		
4				FACW species	x 2 =		
5				FAC species			
Herb Stratum (Plot size: 5m x 5m )	=	= Total Cov	er	FACU species			
<u></u>	40	Υ	FAC	UPL species			
	15	N	UPL	Column Totals:	(A)	(D)	
3. Fes. per.	15	N	OBL	Prevalence Index	= B/A =		
4. Bro. hor.	5	N	FACU	Hydrophytic Vegetation	on Indicators:		
5. Gas. phl.	5	N	FACU	✓ Dominance Test is			
6	5	N	UPL	Prevalence Index is			
7	<del></del> -				ptations <sup>1</sup> (Provide sups or on a separate she		
8	85 <sub>-</sub>			Problematic Hydro	·	•	
Woody Vine Stratum (Plot size:)	<u>00                                   </u>	= Total Cov	er				
1				<sup>1</sup> Indicators of hydric soi		gy must	
2				be present, unless distu	arbed or problematic.		
	=	= Total Cov	er	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum15	iotic Cru	st 0			s <u>√</u> No	_	
Remarks:							

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	the absence o	f indicators.)
Depth	Matrix			ox Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5YR 3/1	97	5YR 5/8	3	<u>C</u>	PL/M	silty clay	
			_					
	-			_				
	-		-	_				
	-		-					
¹Type: C=Cd	oncentration D=Der	letion RM:	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand Gr	rains <sup>2</sup> l oca	tion: PL=Pore Lining, M=Matrix.
			LRRs, unless othe			d Sand Or		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		,			ick (A9) (LRR C)
_	pipedon (A2)		Stripped M					ick (A10) ( <b>LRR B</b> )
Black Hi			Loamy Mud		l (F1)			d Vertic (F18)
	n Sulfide (A4)		Loamy Gle					rent Material (TF2)
Stratified	Layers (A5) (LRR	C)	Depleted M	latrix (F3)			Other (E	xplain in Remarks)
1 cm Mu	ıck (A9) ( <b>LRR D</b> )		Redox Dark	k Surface	(F6)			
	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep	,	F8)			f hydrophytic vegetation and
	fucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Bleyed Matrix (S4)						unless dis	turbed or problematic.
Type: ha	_ayer (if present):							
,, <u> </u>								
Depth (inc	ches): <u></u>						Hydric Soil P	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hyd	drology Indicators	:						
			d; check all that app	lv)			Second	ary Indicators (2 or more required)
Surface	·		Salt Crust	•			<u> </u>	ater Marks (B1) (Riverine)
	iter Table (A2)		Biotic Cru	` '				diment Deposits (B2) (Riverine)
Saturation	` ,		Aquatic In		s (B13)			ft Deposits (B3) (Riverine)
	arks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen					ainage Patterns (B10)
· <del></del>	nt Deposits (B2) (No	•	✓ Oxidized I		, ,	Living Roo		y-Season Water Table (C2)
	posits (B3) (Nonrive		Presence		_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				., d Soils (C6		turation Visible on Aerial Imagery (C9)
· <del></del>	on Visible on Aerial	Imagery (B				a coc (co	· —	allow Aquitard (D3)
	tained Leaves (B9)	magory (D	Other (Ex					C-Neutral Test (D5)
Field Obser	, ,			p.a				0 11041141 1001 (20)
Surface Water		/es	No <u>√</u> Depth (in	iches).				
Water Table			No ✓ Depth (in					
							and Usedralans	Dragant? Van / Na
Saturation Procession (includes cap		res	No <u>✓</u> Depth (in	icnes):		_ wetia	and Hydrology	Present? Yes No
		n gauge, m	onitoring well, aerial	photos, pr	evious ins	spections),	if available:	
	•	-	-			,		
Remarks:								
-								

Project/Site: Sloughhouse Solar Energy Project	City/	City/County: Sacramento County Sampling Date:10/30/2020							
Applicant/Owner: D.E. Shaw Renewable Investments				State: <u>CA</u> Sampling Point: <u>57</u>					
		Section, Township, Range: Township 7N / Range 7E / Section 11							
Landform (hillslope, terrace, etc.): Flatland	Loc	Local relief (concave, convex, none): none Slope (%): 3							
Subregion (LRR): C	t: <u>38.468</u>	787308	34898	Long: -121.1754638	76799	Datum: WG	S84		
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slop				_					
Are climatic / hydrologic conditions on the site typical for this time									
Are Vegetation, Soil, or Hydrology signific						es 🖊 N	0		
Are Vegetation, Soil, or Hydrology natura									
SUMMARY OF FINDINGS – Attach site map show	wing saı	mpling	g point lo	cations, transects	s, importa	nt feature	s, etc.		
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes ✓ No			e Sampled n a Wetlan		No	<b>✓</b>			
Pit taken within upland swale									
VEGETATION – Use scientific names of plants.									
	solute Do	minant	Indicator	Dominance Test work	sheet:				
Tree Stratum         (Plot size:)         % C           1	Cover Sp	ecies?	Status	Number of Dominant S That Are OBL, FACW,	Species	0	(A)		
2				Total Number of Domir Species Across All Stra		2	(B)		
4	<u>0</u> = T			Percent of Dominant S That Are OBL, FACW,	pecies or FAC:	0	(A/B)		
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index wor	rksheet:				
2				Total % Cover of:		Multiply by:			
3				OBL species 0					
4.				FACW species 0					
5				FAC species 2.5					
	_			FACU species 42.5	x 4 =	= 170	_		
Herb Stratum (Plot size: 1m x 1m)				UPL species 57.5	x 5 =	= 287.5	_		
	40	Υ	FACU	Column Totals:10	<u>00</u> (A)	465	_ (B)		
	40	Υ	UPL	December of the december of	D/A	4.65			
	<u>15                                    </u>	N_	<u>UPL</u>	Prevalence Index					
	2.5	N_	<u>FAC</u>	Hydrophytic Vegetation		'S:			
J. Gustriaiam pineolaes	2.5	N	<u>FACU</u>	<ul><li>Dominance Test is</li><li>Prevalence Index i</li></ul>					
6				Morphological Ada		ovide suppor	tina		
7				data in Remark					
	100 = T	otal Cov	er	Problematic Hydro	phytic Veget	ation <sup>1</sup> (Explai	in)		
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric so be present, unless dist			nust		
2			·	•					
% Bare Ground in Herb Stratum0 % Cover of Bi	0 = To			Hydrophytic Vegetation Present? Ye	es	No <u>√</u>			
Remarks:									

Depth	cription: (Describe Matrix	to the dep		ox Feature		or commi	ii tile abseilee	of mulcators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	7.5 YR 3/2	93	5 YR 4/6	7	С	М	silty clay	
				_				
	-				-		-	
	<u> </u>					-		-
	<u> </u>				-	-		
	<u> </u>							
	Concentration, D=Dep					ed Sand G		cation: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	cable to all			ed.)			for Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Red					Muck (A9) (LRR C)
	Epipedon (A2)		Stripped M	, ,	J (E4)			Muck (A10) (LRR B)
	listic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle					ed Vertic (F18) arent Material (TF2)
	ed Layers (A5) ( <b>LRR</b>	C)	Depleted N		(12)			(Explain in Remarks)
	luck (A9) ( <b>LRR D</b> )	0)	✓ Redox Dai		(F6)		01101	(Explain in Remarks)
	ed Below Dark Surface	ce (A11)	Depleted [		. ,			
	Oark Surface (A12)		Redox De				<sup>3</sup> Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)			wetland	hydrology must be present,
	Gleyed Matrix (S4)						unless d	listurbed or problematic.
	Layer (if present):							
Type: ha	ardpan							
Depth (ir	nches): <u>6</u>						Hydric Soil	Present? Yes No
Remarks:							•	
ı								
HYDROLO	OGY							
	ydrology Indicators							
-	icators (minimum of		d: check all that ann	alv.)			Secon	ndary Indicators (2 or more required)
	e Water (A1)	one require						· · · · · · · · · · · · · · · · · · ·
	` '		Salt Crus	` '				Vater Marks (B1) (Riverine)
Saturat	ater Table (A2)		Biotic Cru Aquatic I		oc (B12)			Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)
	, ,	rino)						
	Marks (B1) (Nonrive		Hydroger			Living Bo		Orainage Patterns (B10)
	ent Deposits (B2) ( <b>No</b> eposits (B3) ( <b>Nonrive</b>		Oxidized Presence		_	_		Ory-Season Water Table (C2) Crayfish Burrows (C8)
· <u></u>	e Soil Cracks (B6)	iiiie)	Recent Ir					Saturation Visible on Aerial Imagery (C9)
	tion Visible on Aerial	Imagery (R				u oons (Ci		Shallow Aquitard (D3)
	Stained Leaves (B9)	iiiiageiy (b	Other (E)		. ,			AC-Neutral Test (D5)
Field Obse			Other (L/	CPIAIII III IX	ziiiaiks)	1	'	AC-Neutral Test (D3)
		/00	No / Donth /iv	a a b a a \ .				
			No ✓ Depth (ii					
Water Table			No <u>√</u> Depth (ii					
Saturation F	Present? apillary fringe)	Yes	No <u>✓</u> Depth (ii	nches):		Wetl	land Hydrolog	y Present? Yes ✓ No
	ecorded Data (strean	n gauge, mo	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
	•		•					
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	oject/Site: Sloughhouse Solar Energy Project City/County: Sa						
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA Sampl	ing Point:	58
Investigator(s): L. Burris and A. Godinho		Section, To	ownship, Rar	nge: <u>Township 7</u>	N / Range 7E	E / Section 1	11
Landform (hillslope, terrace, etc.): <u>flatland</u>		Local relie	f (concave, c	convex, none): <u>Co</u>	ncave	Slope	(%): None
Subregion (LRR): C	Lat: 38.4	38.468890684568 Long: -121.176691671627 Datum: WGS84					
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% sl							
Are climatic / hydrologic conditions on the site typical for this tir							
Are Vegetation, Soil, or Hydrology sign							No
Are Vegetation, Soil, or Hydrology natu							
SUMMARY OF FINDINGS – Attach site map sh							tures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes ✓ No _  No _  Remarks:			ne Sampled nin a Wetlan		s N	lo <u>√</u>	
Pit taken within wide shallow basin area							
VECETATION . Has acceptific names of plants							
VEGETATION – Use scientific names of plants.		Dominant	t Indicator	Dominance Tes	t workshoot:		
Tree Stratum         (Plot size:)         %           1	% Cover	Species?	Status	Number of Domi That Are OBL, F	nant Species	. 0	(A)
2				Total Number of Species Across		2	(B)
4		= Total Co		Percent of Domi	nant Species ACW, or FAC:	0	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Inde			
1				Total % Cov			ov:
3				OBL species			
4				FACW species			
5				FAC species			
		= Total Co		FACU species	2.5	x 4 =10	00
Herb Stratum (Plot size: 1m x 1m)				UPL species	20	x 5 =10	00
1. Holocarpha virgata	17.5	Y	UPL	Column Totals:	50	(A) <u>21</u>	<u>L5</u> (B)
2. <u>Tritileia laxa</u>	2.5	<u>N</u>	UPL	Danielones	Jadan D/A	12	
3. <u>Hypochaeris radicata</u>	2.5	N	FACU		e Index = B/A		
4. <u>Gastridium phleoides</u>	17.5 2.5	Y N	FACU	Hydrophytic Ve	_	ators:	
5. Bromus hordeaceus		-	FACU	Dominance Prevalence			
6. Festuca myuros		N	<u>FACU</u>	Morphologic		o <sup>1</sup> (Provide su	innorting
7. <u>Hordeum marinum</u> 8. Festuca perennis	2.5	N N	FAC FAC		emarks or on		
8. <u>restuca perennis</u>		= Total Co		Problematic	Hydrophytic V	egetation (E	Explain)
Woody Vine Stratum (Plot size:		= 10(a) C(	over				
1				<sup>1</sup> Indicators of hydbe present, unles			
		= Total Co	over	Hydrophytic			
% Bare Ground in Herb Stratum 50 % Cover of			0	Vegetation Present?	Yes	No <u></u> ✓	
Remarks:				<u>I</u>			

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	7.5 YR 3/1	97	5 YR 4/6	3	C		Silty clay	
<i>y</i> -0	7.5 11(3/1		311(4/0		· <del></del>	IVI/FL	Sifty Clay	
				_				
			-		· <del></del>			
							. 2.	
			=Reduced Matrix, C LRRs, unless other			ed Sand G		cation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol		Lable to all			eu.)			•
	pipedon (A2)		Sandy Red Stripped M					Muck (A9) ( <b>LRR C</b> ) Muck (A10) ( <b>LRR B</b> )
Black Hi				icky Minera	ıl (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
	en Sulfide (A4)			eyed Matrix				rarent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N		` '			(Explain in Remarks)
	ıck (A9) ( <b>LRR D</b> )	•	✓ Redox Da		(F6)		<del></del>	•
Depleted	d Below Dark Surfa	ce (A11)	Depleted [	Dark Surfac	ce (F7)			
	ark Surface (A12)			pressions (	F8)			of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Po	ols (F9)				hydrology must be present,
	Gleyed Matrix (S4)						unless o	disturbed or problematic.
	Layer (if present):							
T								
Type: cla							1	
Depth (inc							Hydric Soil	I Present? Yes <u>√</u> No
Depth (increments)							Hydric Soil	I Present? Yes <u>√</u> No
Depth (ind Remarks: Filled	GY						Hydric Soil	I Present? Yes <u>√</u> No
Depth (ind Remarks: Filled YDROLO	GY drology Indicators							
Depth (inc Remarks: Filled	GY drology Indicators		d; check all that app	oly)				Present? Yes ✓ No
Depth (indexed) Remarks: Filled  YDROLO Wetland Hydrimary Indicate Surface	GY drology Indicators cators (minimum of		Salt Crus	st (B11)			<u>Seco</u> V	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
Depth (indexembre) Remarks: Filled  YDROLO Vetland Hydrimary Indicates Surface	GY drology Indicators			st (B11)			<u>Seco</u> V	ndary Indicators (2 or more required)
Depth (indexed) Remarks: Filled  YDROLO Wetland Hydrimary Indication Surface	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus	st (B11) ust (B12)	es (B13)		<u>Seco</u> V	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
Depth (ind Remarks: Filled  YDROLO  Wetland Hyde  Surface  High Water Mater Ma	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive	one require	Salt Crus Biotic Cru Aquatic I Hydroger	st (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		Secol V S C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
Depth (incomplete Control of the Con	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic I Hydroger  Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	-	Secon V S C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
Depth (incomplete Control of the Con	GY drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive on Deposits (B2) (No	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	1)	Secon V S C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
Depth (incomplete property)  Primary India  Surface High Wa Saturation Water M Sedimer Drift Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No	one require rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir	ot (B11) ust (B12) nvertebrate n Sulfide Or Rhizosphe e of Reduce	dor (C1) eres along ed Iron (Co ion in Tille	1)	Secon V S C C C C C C C C C C C C C C C	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)
Depth (incomplete property)  Primary India Surface High Was Saturation Water M Sedimer Drift Dep Surface Inundation	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (Nonrive Coosits (B3) (Nonrive Coosits (B3) (Nonrive Coosits (B6) on Visible on Aerial	one require rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	et (B11)  Just (B12)  Invertebrate  Sulfide Of  Rhizosphe  of Reduce  on Reducti  k Surface (	dor (C1) eres along ed Iron (Ca ion in Tille (C7)	1)	Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Depth (incomplete property)  Primary India Surface High Was Saturation Water M Sedimer Drift Dep Surface Inundation	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No	one require rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	ot (B11) ust (B12) nvertebrate n Sulfide Or Rhizosphe e of Reduce	dor (C1) eres along ed Iron (Ca ion in Tille (C7)	1)	Second	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)
Depth (index property)  Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep V Surface Inundatia Water-S	GY  drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	one require rine) onriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11) ust (B12) nvertebrate n Sulfide Or Rhizosphe e of Reduce ron Reducti ck Surface ( kplain in Re	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	t) d Soils (Ce	Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Depth (incomplete in the control of	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex	ot (B11) ust (B12) nvertebrate n Sulfide Or Rhizosphe e of Reduce on Reducti ck Surface ( xplain in Re	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	t) d Soils (Ce	Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Depth (incomplete property)  Primary India Surface High Wassaturation Water M Sedimer Drift Depty Surface Inundation Water-S Field Obser	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11) ust (B12) nvertebrate n Sulfide Or Rhizosphe e of Reduce on Reducti ck Surface ( xplain in Re	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	t) d Soils (Ce	Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Depth (incomplete Control of the Con	GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) con Visible on Aerial tained Leaves (B9) vations: er Present? Present?	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex	ot (B11)  Just (B12)  Invertebrate  In Sulfide Of  Rhizosphe  In Grand Reduce  In Reduction  Reduction  Replain in Refunctes  Inches):  Inches):  Inches):	dor (C1) eres along ed Iron (Co ion in Tille (C7) emarks)	t) d Soils (Ce	Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Depth (inc Remarks:  Tilled  YDROLO Wetland Hyde Surface High Was Saturatio Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Water Table Saturation P (includes cap	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	ot (B11)  Just (B12)  Invertebrate  In Sulfide Of  Rhizosphe  In Grand Reduction  Reduction  Reduction  Replain in Refunctes):  Inches):   dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary V Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)	
Depth (inc. Remarks: Tilled  YDROLO Wetland Hyden Surface High Wassaturation Sedimer Drift Depty Surface Inundation Water-S Field Obser Surface Water Water Table Saturation P (includes cap	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic II Hydroger Voxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11)  Just (B12)  Invertebrate  In Sulfide Of  Rhizosphe  In Grand Reduction  Reduction  Reduction  Replain in Refunctes):  Inches):   dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary V Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)	
Depth (includes cape	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	ot (B11)  Just (B12)  Invertebrate  In Sulfide Of  Rhizosphe  In Grand Reduction  Reduction  Reduction  Replain in Refunctes):  Inches):   dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary V Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)	
Depth (inception of the property of the proper	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	ot (B11)  Just (B12)  Invertebrate  In Sulfide Of  Rhizosphe  In Grand Reduction  Reduction  Reduction  Replain in Refunctes):  Inches):   dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary V Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)	
Depth (inc. Remarks: Tilled  YDROLO Wetland Hyden Surface High Water Mater Mater Mater Sedimer Water-S Field Obser Surface Water Water Table Saturation Pelincludes cap Describe Res	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive oth Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	ot (B11)  Just (B12)  Invertebrate  In Sulfide Of  Rhizosphe  In Grand Reduction  Reduction  Reduction  Replain in Refunctes):  Inches):   dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Ce	Secondary V Second	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)	
Depth (inc. Remarks: Filled  YDROLO Wetland Hyden Surface High Water Mater Mater Mater Sedimer Unift Depty Surface Inundati Water-S Field Obser Surface Water Table Saturation Patincludes cap Describe Res	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive oth Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	ot (B11)  Just (B12)  Invertebrate  In Sulfide Of  Rhizosphe  In Grand Reduction  Reduction  Reduction  Replain in Refunctes):  Inches):   dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Ce	Secon V S C C S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Calling Agricultum (Calling Agricultum)  FAC-Neutral Test (D5)	

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento	County	ampling Date: 10/30/2020				
Applicant/Owner: D.E. Shaw Renewable Investments		State: <u>CA</u> Sa	ampling Point: 59				
Investigator(s): L. Burris and A. Godinho	Section, Township, Range	: Township 7N / Rang	ge 7E / Section 11				
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave, convex, none): Concave Slope (%): 2						
Subregion (LRR): C Lat: 38							
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slopes							
Are climatic / hydrologic conditions on the site typical for this time of y							
Are Vegetation, Soil, or Hydrology significantl			sent? Yes No				
Are Vegetation, Soil, or Hydrology naturally p							
SUMMARY OF FINDINGS – Attach site map showin							
Hydrophytic Vegetation Present? Yes No✓		ea					
Hydric Soil Present?  Yes   ✓ No   Wetland Hydrology Present?  Yes   ✓ No   No   No   No   No   No   No		Yes					
Remarks:							
Associated feature: VP-11							
Associated reactife. VF-11							
VEGETATION							
VEGETATION – Use scientific names of plants.	Berlinet Infrare In		1				
	r Chaoine? Status	ominance Test worksh umber of Dominant Spec					
1			FAC: <u>0</u> (A)				
2	<sub>Tr</sub>	otal Number of Dominan	t				
3	S	pecies Across All Strata:					
4	P	ercent of Dominant Spec					
Sapling/Shrub Stratum (Plot size:)	_ = Total Cover Ti	hat Are OBL, FACW, or I	FAC: 0 (A/B)				
1	P	revalence Index worksl	heet:				
2			Multiply by:				
3		BL species 0					
4		ACW species 0					
5		AC species 0					
Herb Stratum (Plot size: 1m x 1m )		ACU species 0 PL species 100					
1. Elymus caput-medusae 75	V 1101	olumn Totals: 100					
2. Holocarpha virgata 25		olullii Totals	(A)(B)				
3		Prevalence Index =	B/A =S				
4	H	ydrophytic Vegetation					
5		_ Dominance Test is >5					
6		_ Prevalence Index is ≤					
7			ations <sup>1</sup> (Provide supporting r on a separate sheet)				
8			ytic Vegetation <sup>1</sup> (Explain)				
Woody Vine Stratum (Plot size:)	_ = Total Cover						
1			nd wetland hydrology must				
2	be	e present, unless disturb	ed or problematic.				
0		ydrophytic egetation					
% Bare Ground in Herb Stratum	Crust 0 P		No <u>√</u>				
Remarks:							

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			ox Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-2	7.5 YR 3/1	97	5 YR 4/6	3	<u>C</u>	M/PL	silty clay	
		<del></del>						
<del></del>					-			
	-	<del>-</del>	_					
1- 0.0							. 21	
			=Reduced Matrix, C LRRs, unless othe			ed Sand Gr		ation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
_		able to all			eu.)			•
Histosol	(A1) ipedon (A2)		Sandy Red Stripped M	. ,				luck (A9) (LRR C)
Black His			Suipped M		J (E1)			luck (A10) ( <b>LRR B</b> ) ed Vertic (F18)
	n Sulfide (A4)		Loamy Gle	-	. ,			arent Material (TF2)
	Layers (A5) ( <b>LRR</b>	C)	Depleted M		(1 2)			Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )	0)	✓ Redox Dar	, ,	(F6)		Outlot (	Explain in Nomano)
	Below Dark Surfac	e (A11)	Depleted D		. ,			
	rk Surface (A12)	- (	Redox Dep				<sup>3</sup> Indicators	of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Vernal Poo		,			nydrology must be present,
Sandy G	leyed Matrix (S4)						unless di	sturbed or problematic.
	.ayer (if present):							
Type: har	d pan							
Depth (inc	:hes): <u>2"</u>						Hydric Soil	Present? Yes <u>√</u> No
Remarks:							1	
6 1 1								
Gopher b	urrows							
HYDROLO	GY							
Wetland Hyd	Irology Indicators:							
Primary Indic	ators (minimum of o	ne require	d; check all that app	ly)			Secon	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			W	ater Marks (B1) (Riverine)
	ter Table (A2)		Biotic Cru					ediment Deposits (B2) (Riverine)
Saturation			Aquatic In		s (B13)			rift Deposits (B3) ( <b>Riverine</b> )
	arks (B1) ( <b>Nonrive</b> r	rine)	Hydrogen					rainage Patterns (B10)
	t Deposits (B2) ( <b>No</b>		· -			Living Roo		ry-Season Water Table (C2)
	osits (B3) (Nonrive		Presence		_	_		rayfish Burrows (C8)
-	Soil Cracks (B6)		Recent Iro					aturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B				.a 00110 (00		nallow Aquitard (D3)
	ained Leaves (B9)	imagery (D	Other (Ex		. ,			AC-Neutral Test (D5)
Field Observ			Other (EX	piaiii iii ike	marko)			to realiar rest (50)
Surface Water		/oc	No <u>√</u> Depth (ir	obos):				
Water Table			No <u>√</u> Depth (in					
Saturation Pr (includes cap		'es	No <u>✓</u> Depth (in	iches):		Wetla	and Hydrology	Present? Yes No
		n gauge, m	onitoring well, aerial	photos, pr	evious ins	spections),	if available:	
	`	0 0 7	,			, ,,		
Remarks:								
rtomanto.								

Project/Site: Sloughhouse Solar Energy Project	Ci	ty/County:	Sacramer	nto County	Sampling	g Date:10	/30/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling	g Point:	60
Investigator(s): L. Burris and A. Godinho	S	ection, Tov	wnship, Ran	nge: Township 7N /	Range 7E /	Section 11	
Landform (hillslope, terrace, etc.): Hillslope	L	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>2</u>					
Subregion (LRR): C	at: 38.46	38.4686856949598 Long: -121.1762503 Datum: WGS84					
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slo				-			
Are climatic / hydrologic conditions on the site typical for this time							
Are Vegetation, Soil, or Hydrology signifi							No
Are Vegetation, Soil, or Hydrology natura							
SUMMARY OF FINDINGS – Attach site map sho							ros oto
Somman of Theblives - Attach site map sho			g point ic	Cations, transec	ts, illipoi		
Hydrophytic Vegetation Present? Yes No		Is the	e Sampled	Area			
Hydric Soil Present? Yes   ✓ No		withi	n a Wetlan	d? Yes	No	✓	
Wetland Hydrology Present? Yes   ✓ No   Remarks:							
Within topographical depression on hillslope							
VEGETATION Has accountified manner of release							
VEGETATION – Use scientific names of plants.	coluto	Dominant	Indicator	Dominanaa Taat wa	rkohooti		
		Species?		Number of Dominant			
1				That Are OBL, FACV		0	(A)
2				Total Number of Don	ninant		
3				Species Across All S		3	(B)
4				Percent of Dominant	Species		
Sapling/Shrub Stratum (Plot size:)	=	= Total Cov	/er	That Are OBL, FACV	V, or FAC:	0	(A/B)
1				Prevalence Index w	orksheet:		
2				Total % Cover of	f:	Multiply by	<u>:</u>
3				OBL species 0	x ′	1 =0	
4				FACW species 0	x :	2 =0	
5				FAC species 0			
Herb Stratum (Plot size: 1m x 1m )	=	= Total Cov	/er	FACU species 25			
1. Elymus capute-medusae	50	Υ	UPL	UPL species <u>75</u>			
2. Holocarpha ssp.	25	Υ	UPL	Column Totals:	100 (A)	) 495	(B)
3. Bromus hordeaceus	20	Υ	FACU	Prevalence Ind	ex = B/A =	4.95	
4. Brodiaea elegans	5	N	FACU	Hydrophytic Vegeta	tion Indicat	tors:	
5				Dominance Test			
6				Prevalence Inde			
7				Morphological A data in Rema			
8				Problematic Hyd		•	*
Woody Vine Stratum (Plot size:)	100 =	= Total Cov	/er			,(	, ,
1				<sup>1</sup> Indicators of hydric s	soil and wetl	and hydrolog	gy must
2.				be present, unless di	sturbed or p	roblematic.	
		= Total Cov	/er	Hydrophytic			
% Bare Ground in Herb Stratum 0 % Cover of E	Biotic Cru	ıst 0		Vegetation Present?	Yes	No <u>√</u>	
Remarks:							

	cription: (Describe	to the dep				or confirm	the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3"	7.5 YR 3/1	93	5 YR 4/6	7	С	PL/M		
						. <del></del> _		
				_	-			
					-			
					-		-	
			-		_			
	oncentration, D=Dep					ed Sand Gr		tion: PL=Pore Lining, M=Matrix.
_	Indicators: (Applic	able to all	LRRs, unless other	erwise no	ted.)		Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	, ,				uck (A9) (LRR C)
	pipedon (A2)		Stripped M	, ,	ol (E4)		· · · · · · · · · · · · · · · · · · ·	uck (A10) (LRR B)
	stic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle					d Vertic (F18) rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N	-	. ,			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	✓ Redox Dar					,
Depleted	d Below Dark Surfac	e (A11)	Depleted D	ark Surfa	ce (F7)			
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,
	Bleyed Matrix (S4) Layer (if present):						uniess ais	turbed or problematic.
Type: ha								
Depth (in							Hydric Soil P	Present? Yes No
Remarks:	onos). <u>-</u>						Trydric doi: 1	resent: res_v No
Small ma	mmal burrows							
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of c	one require	d; check all that app	ly)			Second	lary Indicators (2 or more required)
	Water (A1)		Salt Crus	t (B11)				ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)				diment Deposits (B2) (Riverine)
Saturation	` '		Aquatic Ir		` '		<del></del>	ft Deposits (B3) (Riverine)
	larks (B1) (Nonriver		Hydrogen				· · · · · · · · · · · · · · · · · · ·	ainage Patterns (B10)
	nt Deposits (B2) (No				•	-		/-Season Water Table (C2)
	oosits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	rine)	Presence			4) ed Soils (C6		ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	lmagery (B				iu Solis (CC		allow Aquitard (D3)
· · · · · · · · · · · · · · · · · · ·	tained Leaves (B9)	iiiageiy (L	• —	plain in R				C-Neutral Test (D5)
Field Obser	( ,		01101 (2.4	Plairini	- Indirito)			5 (16a)
Surface Wat		'es	No ✓ Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				and Hydrology	Present? Yes √ No
(includes car	oillary fringe)							11050H: 105 <u>v</u> 110 <u></u>
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, p	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date: 10/30/2020
Applicant/Owner: D.E. Shaw Renewable Investments	State: <u>CA</u> Sampling Point: <u>61</u>
Investigator(s): L. Burris and A. Godinho	Section, Township, Range: Township 7N / Range 7E / Section 11
Landform (hillslope, terrace, etc.): flatland	Local relief (concave, convex, none): None Slope (%): 2
Subregion (LRR): C Lat: 38	3.4676270252347 Long: -121.176476181084 Datum: WGS84
	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year	
	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map snowing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No ✓	
Hydric Soil Present? Yes No	within a Wetland? Yes No✓
Wetland Hydrology Present? Yes No✓	<u> </u>
Remarks:	
Associated Feature: SW23	
VEGETATION – Use scientific names of plants.	
	Dominant Indicator Species? Status Dominance Test worksheet:
1	Number of Dominant Species
2	
3.	Total Number of Dominant
4	
0	_ = Total Cover That Are OBL, FACW, or FAC:0 (A/B)
Sapling/Shrub Stratum (Plot size:)	Prevalence Index worksheet:
1	
3	
4.	
5	
	= Total Cover FACU species <u>75</u> x 4 = <u>300</u>
Herb Stratum (Plot size: 1m x 1m )  1. Bromus hordeaceus 75	Y FACU Column Totals: 100 (A) 425 (B)
2. Holocarpha virgata 25	Column Totals: (A) 425 (B)
3	
4	
5	
6	Prevalence Index is ≤3.0 <sup>1</sup>
7	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	= Total Cover Toblematic Hydrophytic Vegetation (Explain)
1	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2	be present unless disturbed or problematic
	_ = Total Cover Hydrophytic
% Bare Ground in Herb Stratum 0	Vegetation           Crust0         Present?         Yes No _ ✓
Remarks:	

	Matrix	•		ox Feature		. 2	_	<b>-</b> .
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/2	97	5 YR 4/6	3	С	PL/M	silty clay	
			·				-	
			· -				-	
		_		_				
					-			
					-			
			1=Reduced Matrix, C			ed Sand G		ation: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators: (Appli	cable to a	I LRRs, unless other	erwise not	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Rec					luck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M					fluck (A10) (LRR B)
Black Hi	` '		Loamy Mu					ed Vertic (F18)
	en Sulfide (A4)	<b>C</b> \	Loamy Gle		(F2)			arent Material (TF2)
	d Layers (A5) ( <b>LRR</b> uck (A9) ( <b>LRR D</b> )	C)	Depleted M Redox Dar		(E6)		Other (	Explain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted D		. ,			
	ark Surface (A12)	00 (/ (/ / /	Redox Dep				<sup>3</sup> Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		- /			hydrology must be present,
	Gleyed Matrix (S4)		<del></del>	. ,			unless di	sturbed or problematic.
	Layer (if present):							
Type: <u>ha</u> ı	rd pan							
Depth (inc	ches): <u>3"</u>						Hydric Soil	Present? Yes No✓
Remarks:								
Wetland Hyd	drology Indicators							
Wetland Hyd	drology Indicators		ed; check all that app	•				dary Indicators (2 or more required)
Wetland Hyd Primary Indic Surface	drology Indicators cators (minimum of Water (A1)		Salt Crus	t (B11)			W	ater Marks (B1) (Riverine)
Wetland Hyd Primary Indic Surface High Wa	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus	t (B11) ist (B12)			W	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Wetland Hyd Primary Indic Surface High Wa Saturatio	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)	one require	Salt Crus Biotic Cru Aquatic Ir	t (B11) ist (B12) nvertebrate	, ,		W So D	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) (Nonrive	one require	Salt Crus Biotic Cru Aquatic Ir Hydrogen	t (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		W Si D	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) (Nonrive nt Deposits (B2) (No	one require erine) onriverine	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized	t (B11) ist (B12) invertebrate i Sulfide O Rhizosphe	dor (C1) res along	-	W S D D ots (C3) D	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (Nonrive	one require erine) onriverine	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce	dor (C1) res along ed Iron (C	4)	W D D D ots (C3) D	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive posits (B3) (Nonrive Soil Cracks (B6)	one require erine) onriverine erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (Co on in Tille	4)	W D D ots (C3) D C	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial	erine) conriverine erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along ed Iron (Ca on in Tille	4)	W Si D Dots (C3) D C Si	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9)	erine) conriverine erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) res along ed Iron (Ca on in Tille	4)	W Si D Dots (C3) D C Si	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observa	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations:	erine) conriverine erine) I Imagery (I	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide Or Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C6	W Si D Dots (C3) D C Si	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S Field Observa	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: er Present?	one require erine) conriverine erine) Imagery (I	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex	t (B11) list (B12) evertebrate a Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( eplain in Re	dor (C1) res along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (Ce	W Si D Dots (C3) D C Si	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observa	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: er Present? Present?	one require erine) conriverine erine) I Imagery (I	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re	dor (C1) res along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C6	W Si D C C Si Fi	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observ Surface Water Saturation Primary Indices Saturation Primary Indices Surface Water	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: er Present? Present?	one require erine) conriverine erine) I Imagery (I	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re	dor (C1) res along ed Iron (C- on in Tille (C7) emarks)	4) d Soils (C6	W Si D C C Si Fi	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Primary Indice Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observ Surface Water Vater Table Saturation Pr (includes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: her Present? Present? present?	one require erine) conriverine erine) I Imagery (I Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) res along ed Iron (Coon in Tille (C7) emarks)	4) d Soils (C6	W Si D ots (C3) D C Si Si Fi	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S Field Observ Surface Water Saturation Policy (includes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: her Present? Present? present?	one require erine) conriverine erine) I Imagery (I Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) res along ed Iron (Coon in Tille (C7) emarks)	4) d Soils (C6	W Si D ots (C3) D C Si Si Fi	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S Field Observ Surface Water Saturation Policy (includes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: her Present? Present? present?	one require erine) conriverine erine) I Imagery (I Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) res along ed Iron (Coon in Tille (C7) emarks)	4) d Soils (C6	W Si D ots (C3) D C Si Si Fi	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observ Surface Water Table Saturation Pr (includes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: her Present? Present? present?	one require erine) conriverine erine) I Imagery (I Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) res along ed Iron (Coon in Tille (C7) emarks)	4) d Soils (C6	W Si D ots (C3) D C Si Si Fi	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observ Surface Water Table Saturation Pr (includes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: her Present? Present? present?	one require erine) conriverine erine) I Imagery (I Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) res along ed Iron (Coon in Tille (C7) emarks)	4) d Soils (C6	W Si D ots (C3) D C Si Si Fi	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Water-S Field Observ Surface Water Table Saturation Pr (includes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: her Present? Present? present?	one require erine) conriverine erine) I Imagery (I Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) list (B12) nvertebrate li Sulfide Or Rhizosphe li Greduce li Surface ( riplain in Re linches): lin	dor (C1) res along ed Iron (Coon in Tille (C7) emarks)	4) d Soils (C6	W Si D ots (C3) D C Si Si Fi	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	C	City/County	<sub>r:</sub> <u>Sacramer</u>	nto County	Sampling Date: 10/30/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 66
Investigator(s): L. Burris and A. Godinho	§	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Plateau		Local relief	(concave, c	convex, none): convex	Slope (%):0
Subregion (LRR): C	_ Lat: 38.4	734719		Long: -121.1762204	Datum: WGS84
Soil Map Unit Name: Peters clay, 1 - 8% slopes					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrologys					oresent? Yes No
Are Vegetation, Soil, or Hydrology n				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					
Command of Findings - Attach site map	Silowing		g point ic		, important reatures, etc.
Hydrophytic Vegetation Present? Yes N		ls th	ne Sampled	Area	
Hydric Soil Present? Yes N		with	in a Wetlan	id? Yes	No <u>√</u>
Wetland Hydrology Present? Yes ✓ No. Remarks:	0				
Associated feature: SW66					
VEGETATION – Use scientific names of plan		D '	L. P t	Daninana Tariana	al and
Tree Stratum (Plot size:)	Absolute % Cover			Dominance Test work  Number of Dominant Sp	
1					or FAC: (A)
2				Total Number of Domina	ant
3				Species Across All Stra	
4				Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW, o	or FAC:0 (A/B)
1				Prevalence Index work	ksheet:
2.				Total % Cover of:	Multiply by:
3					x 1 =0
4					x 2 =
5					x 3 = 0
Herb Stratum (Plot size: 1m x 1m )	0	= Total Co	ver	FACU species 77.5	x 4 = 290 x 5 = 137.5
1. Holocarpha virgate	25	Υ	FAC	Column Totals: 10	
2. Bromus hordeaceus	72.5	Υ	FACU	Column Fotalo	<u>s (1) 12713 (B)</u>
3. Convolvulus arvensis	2.5	N	UPL		= B/A =4.3
4				Hydrophytic Vegetatio	
5				Dominance Test is	
6				Prevalence Index is	s ≤3.0 ptations¹ (Provide supporting
7			-		s or on a separate sheet)
8		= Total Co	er	Problematic Hydror	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		_ 10tal 00	vei		
1				<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must
2				•	Indea of problematic.
		= Total Co		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	of Biotic Cr	ust(	<u>)                                    </u>		s No_ <u>√</u>
Remarks:					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-2	7.5 YR 3/2	98	5 YR 4/6	2	С	PL	silty clay	
-								
		_		-				
		_						
<sup>1</sup> Type: C=C	oncentration. D=De	oletion. RM	1=Reduced Matrix, CS	=Covered	d or Coate	ed Sand G	rains. <sup>2</sup> Locati	ion: PL=Pore Lining, M=Matrix.
			I LRRs, unless other					r Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Redo	x (S5)			1 cm Muc	ck (A9) ( <b>LRR C</b> )
Histic Ep	oipedon (A2)		Stripped Ma	trix (S6)			2 cm Muc	ck (A10) ( <b>LRR B</b> )
Black Hi	stic (A3)		Loamy Muck	ky Minera	l (F1)		Reduced	Vertic (F18)
	en Sulfide (A4)		Loamy Gley		(F2)		<del></del>	ent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted Ma				Other (Ex	rplain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dark		` '			
	d Below Dark Surfac	ce (A11)	Depleted Da		. ,		31 11	
	ark Surface (A12)  Mucky Mineral (S1)		Redox Depr		F8)			hydrophytic vegetation and
	Gleyed Matrix (S4)		Vernal Pools	s (F9)				drology must be present, urbed or problematic.
	Layer (if present):						unless dist	urbed of problematic.
Type: ha								
,	ches): 2"						Hydric Soil Pr	resent? Yes No ✓
	CHES). <u>Z</u>						Hydric 30ii Fi	esent: lesNO
Remarks:								
Small ma	mmal burrows	;						
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary India	cators (minimum of	one require	ed; check all that apply	/)			Seconda	ary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (	(B11)			Wate	er Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Crus	t (B12)			Sedi	iment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Inv	ertebrate	s (B13)		Drift	Deposits (B3) (Riverine)
Water M	larks (B1) (Nonrive	rine)	Hydrogen S	Sulfide O	dor (C1)		Drai	nage Patterns (B10)
Sedimer	nt Deposits (B2) (No	onriverine)	✓ Oxidized R	hizosphe	res along	Living Roo	ots (C3) Dry-	Season Water Table (C2)
Drift Dep	posits (B3) (Nonrive	erine)	Presence of	of Reduce	ed Iron (C	4)	Cray	yfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron	n Reducti	on in Tille	d Soils (C6	6) Satu	uration Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial	Imagery (E	37) Thin Muck	Surface (	C7)		Shal	llow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Exp	lain in Re	marks)		FAC	C-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	res	No <u>✓</u> Depth (inc	ches):				
Water Table	Present?	Yes .	No <u>✓</u> Depth (inc	ches):				
Saturation P			No ✓ Depth (inc				and Hvdrology P	Present? Yes No
(includes car	oillary fringe)							
Describe Re	corded Data (strear	n gauge, m	onitoring well, aerial p	hotos, pr	evious ins	pections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacrame	nto County	Sampling Date: 10/30/20	20
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 67	
Investigator(s): L. Burris and A. Godinho	;	Section, To	wnship, Ra	nge: <u>Township 7N / Ra</u>	ange 7E / Section 11	
Landform (hillslope, terrace, etc.): Plateau		Local relief	(concave,	convex, none): convex	Slope (%):2	2
Subregion (LRR): C	Lat: 38.4	47328696	32782	Long: <u>-121.1759744</u> 2	27288 Datum: WGS84	
Soil Map Unit Name: Peters clay, 1 - 8% slopes				NWI classific	cation:	
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, or Hydrology signature.					present? Yes No	
Are Vegetation _ ✓ _, Soil, or Hydrology na				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map s						tc.
		<u> </u>	<u> </u>	·	, , , , , , , , , , , , , , , , , , ,	
Hydrophytic Vegetation Present?  Yes   ✓ No  Hydric Soil Present?  Yes   ✓ No		Is th	e Sampled			
Wetland Hydrology Present? Yes   ✓ No		with	in a Wetlar	nd? Yes <u>√</u>	No	
Remarks:						
Within SW-26 (microdepression on plateau	)					
Within 500 25 (merodepression on placed	,					
VEGETATION – Use scientific names of plant						
VEGETATION — Ose scientific fiames of plant		Dominant	Indicator	Dominance Test work	rsheet:	
Tree Stratum (Plot size:)	% Cover			Number of Dominant S		
1					or FAC:3 (A)	1
2				Total Number of Domin		
3				Species Across All Stra	ata: <u>3</u> (B)	
4				Percent of Dominant S		
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW,	or FAC:100 (A/E	B)
1				Prevalence Index wor	ksheet:	
2				Total % Cover of:	Multiply by:	
3					x 1 =	
4					x 2 =	
5	_	T-1-1-0-			x 3 =	
Herb Stratum (Plot size: 1m x 1m )	0	= Total Co	ver		x 4 = x 5 =	
1. Rumex dentatus	25	Υ	FACW		(A) (B	3)
2. Hordeum marinum (Unidentifiable thatch)		Y	FAC			,
3. Festuca perennis (Unidentifiable thatch)	75	Y	FAC		c = B/A =	
4				Hydrophytic Vegetation		
5				✓ Dominance Test is		
6				Prevalence Index i	is ≤3.0° aptations¹ (Provide supporting	
7					s or on a separate sheet)	
8		= Total Co		Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)	100	= Total Co	ivei			
1					il and wetland hydrology must	
2				be present, unless distr		
	0	= Total Co	ver	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum	of Biotic Cr	ust	)		es No	
Remarks:				-		
Heavily grazed						

SOIL Sampling Point: 67

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0-2	7.5 YR 3/2	93	5 YR 4/6	7	С	PL	silty clay	<u> </u>
			_					
							'	_
				_				
				_				
Type: C=Ce	oncentration. D=De	pletion. RM	l=Reduced Matrix, C	S=Covere	d or Coate	d Sand G	rains.	2 Location: PL=Pore Lining, M=Matrix.
			I LRRs, unless othe					fors for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	lox (S5)			1 0	cm Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					m Muck (A10) (LRR B)
	stic (A3) en Sulfide (A4)		Loamy Muc	-	. ,			duced Vertic (F18) d Parent Material (TF2)
	en Suilide (A4) d Layers (A5) ( <b>LRR</b>	C)	Loamy Gleg Depleted M		(FZ)			her (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	0)	Depleted iv		(F6)		01	Tier (Explain in Nemarks)
	d Below Dark Surfa	ce (A11)	Depleted D		. ,			
Thick Da	ark Surface (A12)		Redox Dep	ressions (	F8)		<sup>3</sup> Indica	tors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				and hydrology must be present,
	Gleyed Matrix (S4)						unle	ss disturbed or problematic.
	Layer (if present):							
Type: Da	i a paii							
Type: ha							Hydric	Soil Procent? Vos / No
Depth (in			<u> </u>				Hydric	Soil Present? Yes <u>√</u> No
Depth (ind	ches): <u>2"</u>						Hydric	Soil Present? Yes <u>√</u> No
Depth (ind Remarks:	ches): 2"	:					Hydric	Soil Present? Yes <u>√</u> No
Depth (ind Remarks: YDROLO	GY drology Indicators		ed; check all that app	ly)				Soil Present? Yes ✓ No
Depth (independent of the property of the prop	GY drology Indicators		ed; check all that app	•				
Depth (indexe)  Remarks:  YDROLO  Wetland Hydelerimary Indice  Surface	GY drology Indicators			t (B11)				econdary Indicators (2 or more required)
Depth (ind Remarks: YDROLO Wetland Hyden Primary Indic	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crust	t (B11) st (B12)	es (B13)		<u>S</u>	econdary Indicators (2 or more required) _ Water Marks (B1) ( <b>Riverine</b> )
Depth (ind Remarks:  YDROLO  Wetland Hyde  Primary India  Surface  High Wa  Saturation	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)	one require	Salt Crust Biotic Cru	t (B11) st (B12) overtebrate			<u>S</u>	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
Depth (ind Remarks:  YDROLO  Wetland Hyde  Primary India  Surface  High Watan Mater	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)	one require	Salt Crust Biotic Cru Aquatic In Hydrogen	t (B11) st (B12) nvertebrate Sulfide O	dor (C1)	Living Ro	S	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)
Primary Indic Surface High Water M Sedimer Drift Dep	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nonrive	one require rine) onriverine)	Salt Crust Biotic Cru Aquatic In Hydrogen _✓ Oxidized I Presence	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C4	1)	<u>S</u>	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
Primary India  Surface High Wa Saturatia Water M Sedimer Drift Dep Surface	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No	one require rine) onriverine) erine)	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Iro	t (B11) st (B12) overtebrate Sulfide O Rhizosphe of Reduce on Reduct	dor (C1) eres along ed Iron (C4 ion in Tille	1)	Si	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundati	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nonrive cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial	one require rine) onriverine) erine)	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc	t (B11) st (B12) evertebrate Sulfide O Rhizosphe of Reduce on Reduct k Surface	dor (C1) eres along ed Iron (C4 ion in Tille (C7)	1)	Si Si C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)
Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundati Water-S	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9)	one require rine) onriverine) erine)	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Iro	t (B11) st (B12) evertebrate Sulfide O Rhizosphe of Reduce on Reduct k Surface	dor (C1) eres along ed Iron (C4 ion in Tille (C7)	1)	Si Si C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Primary Indices  YDROLO  Wetland Hydro  Surface  High Water Mater	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	one require rine) onriverine) erine) Imagery (E	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Muck Other (Ex	t (B11) st (B12) evertebrate Sulfide O Rhizosphe of Reduce on Reduct k Surface plain in Re	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Si Si C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)
Depth (ind Remarks:  YDROLO  Wetland Hyde  Surface  High Water M  Sedimer  Drift Dep  Surface  Inundati  Water-S  Field Obser	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial atained Leaves (B9) vations: er Present?	one require rine) porriverine) erine) Imagery (E	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Muck Other (Ex	t (B11) st (B12) evertebrate Sulfide O Rhizosphe of Reduce on Reduct k Surface plain in Re	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Si Si C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)
Depth (incomplete property)  Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Water Water Table	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	rine) porriverine) lmagery (E	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reduct k Surface plain in Re aches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Si Si C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Depth (incomplete property)  Primary India Surface High Was Saturatio Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Water Table Saturation P	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	rine) porriverine) lmagery (E	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Muck Other (Ex	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reduct k Surface plain in Re aches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Si Si C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)
Depth (independence of the posterior of	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (E Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reduct ox Surface plain in Re aches): aches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Some Signal Sign	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Depth (inception of the content of t	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (E Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Mucl Other (Ex  No ✓ Depth (in No ✓ Depth (in	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reduct ox Surface plain in Re aches): aches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Some Signal Sign	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Depth (independence of the posterior of	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (E Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Mucl Other (Ex  No ✓ Depth (in No ✓ Depth (in	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reduct ox Surface plain in Re aches): aches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Some Signal Sign	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Depth (inception of the content of t	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (E Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Mucl Other (Ex  No ✓ Depth (in No ✓ Depth (in	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reduct ox Surface plain in Re aches): aches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Some Signal Sign	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Depth (indexed)  Primary Indices  Primary Indices  Field Obser  Surface Water Mater Surface  Inundation  Water Surface  Inundation  Water Surface  Inundation  Water Second Obser  Surface Water Table  Saturation Princludes cap  Describe Recommended	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) lmagery (E Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen ✓ Oxidized I Presence Recent Irc Thin Mucl Other (Ex  No ✓ Depth (in No ✓ Depth (in	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reduct ox Surface plain in Re aches): aches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C	Some Signal Sign	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>y:</sub> <u>Sacramer</u>	nto County	Samplin	g Date:10/	30/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling	g Point:	68
Investigator(s): L. Burris and A. Godinho	{	Section, To	ownship, Rar	nge: <u>Township 7N</u>	/ Range 7E /	Section 11	
Landform (hillslope, terrace, etc.): Plateau		Local relie	ef (concave, c	convex, none): <u>conve</u>	ex	Slope (%	s): <u> </u>
Subregion (LRR): C	_ Lat: <u>38.4</u>	17327158	395606	Long: <u>-121.17592</u>	5837094	Datum: W	GS84
Soil Map Unit Name: Peters clay, 1 - 8% slopes				-			
Are climatic / hydrologic conditions on the site typical for this							
Are Vegetation, Soil, or Hydrology si				Normal Circumstance			No
Are Vegetation, Soil, or Hydrology na				eded, explain any an			
SUMMARY OF FINDINGS – Attach site map s							os otc
Oblimate of Thebitos - Attach site map s	silowing .		ig point it	ocations, transe	Cts, impor	tant reatur	
Hydrophytic Vegetation Present? Yes No		ls t	he Sampled	Area			
Hydric Soil Present? Yes No		witl	hin a Wetlan	nd? Yes_	No	✓	
Wetland Hydrology Present? Yes ✓ No Remarks:	<u>'</u>						
Associated Feature: SW26							
Associated Feature. SW20							
VEGETATION . Her seigntiffe names of plants							
VEGETATION – Use scientific names of plant	Absolute	Dominon	t Indicator	Dominance Test w	vorkobooti		
Tree Stratum (Plot size:)	% Cover			Number of Dominar			
1				That Are OBL, FAC		0	_ (A)
2	-			Total Number of Do	ominant		
3				Species Across All	Strata:	2	_ (B)
4				Percent of Dominar		_	
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	over	That Are OBL, FAC	;W, or FAC:	0	_ (A/B)
1				Prevalence Index	worksheet:		
2				Total % Cover			
3				OBL species 0			
4				FACW species 0			
5				FAC species 10 FACU species 65	) x:		
Herb Stratum (Plot size: 1m x 1m )	0	= Total Co	over	UPL species 25			
1. Holocarpha virgata	25	Y	UPL	Column Totals:			(B)
2. Bromus hordeaceus		Y	FACU			,	` ` /
3. Hordeum marinum	10	N	FAC	Prevalence In			
4			!	Hydrophytic Vege		tors:	
5				Dominance Test			
6						(Provide supp	orting
7						separate shee	
8		= Total Co	over	Problematic Hy	/drophytic Ve(	getation <sup>1</sup> (Exp	lain)
Woody Vine Stratum (Plot size:)		- rotar o	3701				
1				<sup>1</sup> Indicators of hydric be present, unless			/ must
2							
		= Total Co		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum0	of Biotic Cr	ust	0	Present?	Yes	No <u>√</u>	
Remarks:							

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
)-2			5 YR 4/6			PL	silty clay	
	7.5 11(3/2		3 TK 4/0					
							. 21	
• •	oncentration, D=Deplicators: (Applic					ed Sand G		cation: PL=Pore Lining, M=Matrix.  s for Problematic Hydric Soils <sup>3</sup> :
Histosol		able to all	Sandy Red		cu.,			Muck (A9) (LRR C)
	oipedon (A2)		Stripped M					Muck (A10) (LRR B)
Black Hi			Loamy Mu		al (F1)			ced Vertic (F18)
	en Sulfide (A4)		Loamy Gle					Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N		. ,			(Explain in Remarks)
	ıck (A9) ( <b>LRR D</b> )		Redox Dai	, ,	(F6)			
	d Below Dark Surfac	e (A11)	Depleted [		. ,			
	ark Surface (A12)		Redox Dep		F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				hydrology must be present,
Sandy G	Sleyed Matrix (S4)						unless o	disturbed or problematic.
	Layer (if present):							
Type:								
Type: Depth (inc							Hydric Soil	I Present? Yes No _ ✓
Type: Depth (ind Remarks:	ches):						Hydric Soil	I Present? Yes No _✓
Type: Depth (inc Remarks:	ches):						Hydric Soil	I Present? Yes No _ ✓
Type: Depth (inc Remarks:  YDROLO  Vetland Hyd	GY drology Indicators	:		ole d				
Type: Depth (independent of the content of th	GY drology Indicators	:	d; check all that app				Seco	ndary Indicators (2 or more required)
Type: Depth (ind Remarks:  YDROLO  Vetland Hyd Primary India Surface	GY drology Indicators cators (minimum of o	:	d; check all that app Salt Crus	t (B11)			<u>Seco</u> V	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
Type: Depth (inc Remarks:  YDROLO  Vetland Hyo  Primary Indic  Surface  High Wa	GY drology Indicators: cators (minimum of of Water (A1) ater Table (A2)	:	d; check all that app Salt Crus Biotic Cru	t (B11) ust (B12)	(D40)		Seco V	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
Type: Depth (inc Remarks:  YDROLO  Vetland Hyo Primary Indic Surface High Wa Saturatio	GY drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3)	: one required	d; check all that app Salt Crus Biotic Cru Aquatic Ir	it (B11) ust (B12) nvertebrate	, ,		<u>Seco</u> V S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)
Type: Depth (ind Remarks:  YDROLO  Vetland Hyd  Primary Indid  Surface  High Wa  Saturatio  Water M	GY drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver	: one required	d; check all that app Salt Crus Biotic Cru Aquatic Iu Hydroger	at (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)	Living Do	Seco — V — S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)
Type: Depth (ind Remarks:  YDROLO  Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer	GY drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No	: one required rine)	d; check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	_	Seco V S C C cots (C3) C	ndary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Type:	GY drology Indicators. cators (minimum of of water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (Nonriver coosits (B3) (Nonriver)	: one required rine)	d; check all that app Salt Crus Biotic Cru Aquatic Iu Hydroger V Oxidized Presence	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C	4)	Seco V S C C C C C C	ndary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
Type: Depth (ind Remarks:  YDROLO  Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface	GY drology Indicators cators (minimum of of other (A1) ater Table (A2) on (A3) larks (B1) (Nonrive) nt Deposits (B2) (No	cine) rine) rine)	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger V Oxidized Presence Recent Ir	at (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti	dor (C1) eres along ed Iron (C- ion in Tille	4)	Seco  V S C S C S C S C S C S S S S S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)
Type: Depth (ind Remarks:  YDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundation	GY drology Indicators: cators (minimum of of other (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial	cine) rine) rine)	d: check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti	dor (C1) eres along ed Iron (C- ion in Tille (C7)	4)	Seco  V S C C C C C C C C C C C C C C C S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Type:	GY drology Indicators cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivel nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial ttained Leaves (B9)	cine) rine) rine)	d: check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	at (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti	dor (C1) eres along ed Iron (C- ion in Tille (C7)	4)	Seco  V S C C C C C C C C C C C C C C C S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C8)
Type:	drology Indicators cators (minimum of of of other cators (Management of other cators (B1) (Nonriver of other cators (B2) (Nonriver of other cators (B3) (Nonriver of other cators (B6) on Visible on Aerial trained Leaves (B9) vations:	rine) Imagery (B	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger V Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti k Surface e	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (C	Seco  V S C C C C C C C C C C C C C C C S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Type:	GY  drology Indicators cators (minimum of of other cators (Minimum of other cators (Manimum of o	rine) Imagery (B'	d; check all that app  Salt Crus  Biotic Cru  Aquatic II  Hydroger  Oxidized  Presence  Recent Ir  Thin Muc  Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti ck Surface o xplain in Re	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Seco  V S C C C C C C C C C C C C C C C S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Type:	GY drology Indicators cators (minimum of of other (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	rine) Imagery (B	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti k Surface ( kplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Seco  V S C C C C C C	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonriver cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	rine) Imagery (B	d; check all that app  Salt Crus  Biotic Cru  Aquatic II  Hydroger  Oxidized  Presence  Recent Ir  Thin Muc  Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti k Surface ( kplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Seco  V S C C C C C C	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)
Type:	GY drology Indicators cators (minimum of of other (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	cine) Inriverine) Imagery (B'  'es 'es	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Seco V S C C C C S C S S S S F	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	GY drology Indicators cators (minimum of of other (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	cine) Inriverine) Imagery (B'  'es 'es	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Seco V S C C C C S C S S S S F	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	GY drology Indicators cators (minimum of of other (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	cine) Inriverine) Imagery (B'  'es 'es	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Seco V S C C C C S C S S S S F	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	GY drology Indicators cators (minimum of of other (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	cine) Inriverine) Imagery (B'  'es 'es	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Seco V S C C C C S C S S S S F	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type:	GY drology Indicators cators (minimum of of other (A1) ater Table (A2) on (A3) larks (B1) (Nonriver nt Deposits (B2) (No cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	cine) Inriverine) Imagery (B'  'es 'es	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti k Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Seco V S C C C C S C S S S S F	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (CS)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>y:</sub> <u>Sacrame</u>	nto County	_ Sampling Da	te: 10/30	)/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Poi	int: <u>ε</u>	59
Investigator(s): L. Burris and A. Godinho	:	Section, To	ownship, Rai	nge: Township 7N / R	ange 7E / Sec	tion 11	
Landform (hillslope, terrace, etc.): Plateau		Local relie	f (concave, o	convex, none): convex		Slope (%):	2
Subregion (LRR): C	Lat: TBD	)		Long: <u>38.472705625</u>	53697 c	Datum: <u>-12</u> 2	1.1757
Soil Map Unit Name: Peters clay, 1 - 8% slopes							
Are climatic / hydrologic conditions on the site typical for th							
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "	'Normal Circumstances"	present? Yes	No	o
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS - Attach site map	showing	samplir	ng point le	ocations, transects	s, importan	t feature:	s, etc.
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N Remarks:	No <u>√</u>		he Sampled hin a Wetlar		No <del>_</del>	<u>/</u>	
Associated Feature: SW27							
VEGETATION – Use scientific names of plan	nte						
VEGETATION – Ose scientific flames of plai		Dominan	t Indicator	Dominance Test wor	ksheet:		
Tree Stratum (Plot size:) 1	% Cover	Species?	Status	Number of Dominant S That Are OBL, FACW,	Species	0	(A)
2				Total Number of Domin Species Across All Stra		1	(B)
4				Percent of Dominant S That Are OBL, FACW,		0	(A/B)
1				Prevalence Index wo	rksheet:		
2				Total % Cover of:	Mυ	ultiply by:	<u> </u>
3				OBL species 0	x 1 =	0	_
4				FACW species 0	x 2 = _	0	_
5				FAC species <u>15</u>	x 3 = _	15	_
		= Total Co	over	FACU species 80			_
Herb Stratum (Plot size: 1m x 1m )	12.5	N.	LIDI	UPL species 15			_
Holocarpha virgata     Bromus hordeaceus		N	<u>UPL</u> FACU	Column Totals:1	<u>00</u> (A) _	410	_ (B)
Hordeum marinum		N N	FAC	Prevalence Index	x = B/A =	4.1	
4 Trifolium hirtum	2 5	N	UPL	Hydrophytic Vegetati			
5. Festuca perennis	2.5	N	FAC	Dominance Test is			
6		-		Prevalence Index			
7				Morphological Ada		vide suppor	ting
8.				data in Remark	•	,	
		= Total Co	over	Problematic Hydro	ophytic Vegetat	ion' (Explai	n)
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric so be present, unless dist			nust
2				Hydrophytic			
% Bare Ground in Herb Stratum 0 % Cove	er of Biotic Cr	= Total Co		Vegetation	esNo	o <u>√</u>	
Remarks:				1			

Depth Co	Matrix lor (moist)	%	Color (moist)	x Features % T	ype¹ Lo	c <sup>2</sup> Text	ure Remarks	
	/R 3/3	100	2 2.2. (5104)			silty cl		
<u>0-5</u> <u>7.5 1</u>	/11 3/3	100				<u> </u>	<u> </u>	
		·						
		· <del></del> -						
<sup>1</sup> Type: C=Concentr	ation D-Den	letion RM-I	Reduced Matrix CS	S=Covered or	Coated Sa	nd Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicat							cators for Problematic Hydric Soils <sup>3</sup> :	
Histosol (A1)			Sandy Red				1 cm Muck (A9) ( <b>LRR C</b> )	
Histic Epipedor	n (A2)		Stripped Ma	, ,			2 cm Muck (A10) (LRR B)	
Black Histic (A3	,			ky Mineral (F			Reduced Vertic (F18)	
Hydrogen Sulfic				yed Matrix (F2	2)		Red Parent Material (TF2)	
Stratified Layer	. , .	<b>S</b> )	Depleted M			(	Other (Explain in Remarks)	
1 cm Muck (A9) Depleted Below		_ (Δ11)		k Surface (F6) ark Surface (F				
Thick Dark Surf		J (ATT)		ressions (F8)	')	<sup>3</sup> Indio	cators of hydrophytic vegetation and	
Sandy Mucky N	` ,		Vernal Poo				etland hydrology must be present,	
Sandy Gleyed I						un	lless disturbed or problematic.	
Restrictive Layer (								
Type: hard pan								
Depth (inches): _	3"					Hydri	c Soil Present? Yes No	
Remarks:								
HYDROLOGY								
HYDROLOGY Wetland Hydrolog	y Indicators:							
		ne required;	check all that appl	y)			Secondary Indicators (2 or more required	l)
Wetland Hydrology	minimum of o	ne required;	check all that appl				Secondary Indicators (2 or more required  Water Marks (B1) (Riverine)	1)
Wetland Hydrology Primary Indicators (	minimum of o	ne required;		(B11)			Water Marks (B1) (Riverine)	1)
Wetland Hydrology Primary Indicators ( Surface Water	minimum of o (A1) ble (A2)	ne required:	Salt Crust	(B11)	313)			l)
Wetland Hydrology Primary Indicators ( Surface Water High Water Tab	minimum of o (A1) ble (A2)		Salt Crust	(B11) st (B12) vertebrates (E	,		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)	l)
Wetland Hydrology Primary Indicators ( Surface Water High Water Tab Saturation (A3)	minimum of o (A1) ble (A2) B1) (Nonriveri	ne)	Salt Crust Biotic Crust Aquatic In	(B11) st (B12) vertebrates (E Sulfide Odor	(C1)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)	<u> </u>
Primary Indicators ( Surface Water High Water Tab Saturation (A3) Water Marks (B Sediment Depo	minimum of o (A1) ble (A2) B1) (Nonriveri osits (B2) (Non B3) (Nonriver	ne) nriverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir	(C1) along Living on (C4)	g Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)	
Wetland Hydrology Primary Indicators (  Surface Water High Water Tab Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Surface Soil Cr	minimum of o (A1) ble (A2) B1) (Nonriveri ssits (B2) (Nori B3) (Nonriveri acks (B6)	ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Living on (C4) n Tilled Soi	g Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery	
Wetland Hydrology Primary Indicators (  Surface Water Tab High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visit	minimum of o (A1) ble (A2) B1) (Nonrivering bits (B2) (Nonrivering B3) (Nonrivering acks (B6) ble on Aerial II	ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7)	(C1) along Living on (C4) n Tilled Soi	g Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3)	
Primary Indicators ( Surface Water   High Water Tab   Saturation (A3)   Water Marks (E   Sediment Depo   Drift Deposits (I   Surface Soil Cr   Inundation Visit   Water-Stained	minimum of o (A1) ble (A2) B1) (Nonrivering bits (B2) (Nonrivernates (B6) ble on Aerial In Leaves (B9)	ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i	(C1) along Living on (C4) n Tilled Soi	g Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery	
Wetland Hydrology Primary Indicators ( Surface Water High Water Tab Saturation (A3) Water Marks (E Sediment Deporation of Deporation of Company	minimum of o (A1) ble (A2) B1) (Nonriveri bsits (B2) (Non B3) (Nonriveri acks (B6) ble on Aerial II Leaves (B9)	ine) nriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7) plain in Rema	(C1) along Living on (C4) n Tilled Soi	g Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3)	
Wetland Hydrology Primary Indicators (  Surface Water High Water Tab Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Surface Soil Cr Inundation Visit Water-Stained Surface Water Pres	minimum of o (A1) ble (A2) B1) (Nonrivering besits (B2) (Nonrivernacks (B6) ble on Aerial In Leaves (B9) S: ent?	ine) nriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7) blain in Rema	(C1) along Living on (C4) n Tilled Soi	g Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3)	
Wetland Hydrology Primary Indicators (  Surface Water of High Water Table Saturation (A3) Water Marks (E) Sediment Deposits (I) Surface Soil Cr Inundation Visite Water-Stained Field Observations Surface Water Preservations	minimum of o (A1)  ole (A2)  31) (Nonrivering in the sits (B2) (Nonrivernacks (B6)  ole on Aerial In Leaves (B9)  s: ent?  Year	ine) nriverine) rine) magery (B7) es N es N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7) blain in Rema ches): ches):	(C1) along Living on (C4) n Tilled Soi rks)	g Roots (C3) ls (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5)	(C9)
Wetland Hydrology Primary Indicators (  Surface Water of High Water Table Saturation (A3) Water Marks (E) Sediment Deposits (I) Surface Soil Cr Inundation Visite Water-Stained Field Observations Surface Water Present Saturation Present?	minimum of o (A1) ole (A2) B1) (Nonriveri osits (B2) (Noriveri acks (B6) ole on Aerial II Leaves (B9) s: ent? Ye	ine) nriverine) rine) magery (B7) es N es N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7) blain in Rema ches): ches):	(C1) along Living on (C4) n Tilled Soi rks)	g Roots (C3) ls (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3)	(C9)
Wetland Hydrology Primary Indicators (  Surface Water of High Water Table Saturation (A3) Water Marks (E) Sediment Depoil of Drift Deposits (I) Surface Soil Cr Inundation Visit Water-Stained Field Observations Surface Water Preservations	minimum of o (A1)  (A1)  (A2)  (A1)  (Nonrivering is its (B2) (Nonrivering is its (B2) (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B2)  (Nonriver	ine) nriverine) rine) magery (B7) es N es N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7) blain in Rema ches): ches):	(C1) along Living on (C4) n Tilled Soi rks)	g Roots (C3) ls (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5)	(C9)
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Wetland Hydrology Primary Indicators (  Surface Water of High Water Table Preser Saturation (A3) Water Marks (Boundaries of Marks (Basel of Marks (Boundaries of Marks (Basel of Marks (	minimum of o (A1)  (A1)  (A2)  (A1)  (Nonrivering is its (B2) (Nonrivering is its (B2) (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B2)  (Nonriver	ine) nriverine) rine) magery (B7) es N es N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7) blain in Rema ches): ches):	(C1) along Living on (C4) n Tilled Soi rks)	g Roots (C3) ls (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5)	(C9)
Wetland Hydrology Primary Indicators (  Surface Water of High Water Table Preser Saturation (A3) Water Marks (Boundaries of Marks (Basel of Marks (Boundaries of Marks (Basel of Marks (	minimum of o (A1)  (A1)  (A2)  (A1)  (Nonrivering is its (B2) (Nonrivering is its (B2) (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B2)  (Nonriver	ine) nriverine) rine) magery (B7) es N es N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7) blain in Rema ches): ches):	(C1) along Living on (C4) n Tilled Soi rks)	g Roots (C3) ls (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5)	(C9)
Wetland Hydrology Primary Indicators (  Surface Water of High Water Table Preser Saturation (A3) Water Marks (Boundaries of Marks (Basel of Marks (Boundaries of Marks (Basel of Marks (	minimum of o (A1)  (A1)  (A2)  (A1)  (Nonrivering is its (B2) (Nonrivering is its (B2) (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B6)  (Nonrivering is its (B2)  (Nonriver	ine) nriverine) rine) magery (B7) es N es N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i s Surface (C7) blain in Rema ches): ches):	(C1) along Living on (C4) n Tilled Soi rks)	g Roots (C3) ls (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5)	(C9)

Project/Site: Sloughhouse Solar Energy Project		City/County	: Sacramer	nto County	Samplinç	Date: 10/30	0/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Samplinç	Point:	70
Investigator(s): L. Burris and A. Godinho	;	Section, To	wnship, Rar	nge: Township 7N /	Range 7E /	Section 11	
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): conca	ve	Slope (%):	5
Subregion (LRR): C	Lat: 38.4	17716627	77409	Long: <u>-121.176513</u>	3594024	Datum: WG	iS84
Soil Map Unit Name: Peters clay, 1 - 8% slopes				NWI class	sification: n/a	3	
Are climatic / hydrologic conditions on the site typical for this							
Are Vegetation, Soil, or Hydrology sig	gnificantly o	disturbed?	Are "I	Normal Circumstances	s" present?	Yes 🔽 N	0
Are Vegetation, Soil, or Hydrology na	turally prol	olematic?	(If ne	eded, explain any ans	swers in Rema	arks.)	
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point lo	ocations, transec	cts, import	ant feature	s, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓ No  Remarks:			e Sampled in a Wetlan		√ No		
Associated feature: SW 28							
VEGETATION – Use scientific names of plants							
		Dominant	Indicator	Dominance Test we	orksheet:		
,		Species?		Number of Dominan		0	
1				That Are OBL, FAC\	₩, or FAC:	0	(A)
2				Total Number of Dor Species Across All S		3	(B)
4							(D)
		= Total Co		Percent of Dominant That Are OBL, FACV		0	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index w	vorksheet:		
1 2				Total % Cover of		Multiply by:	
3				OBL species 0			
4				FACW species 0			
5						3 = 0	
		= Total Co		FACU species 50			<u> </u>
Herb Stratum (Plot size: 1m x 1m )				UPL species 50	x 5	5 = 250	<u> </u>
1. Holocarpha virgata	25	Y	UPL	Column Totals:	100 (A)	450	(B)
2. Elymus caput-medusae			UPL			4.5	
3. Bromus hordeaceus	50	Y	<u>FAC</u>	Prevalence Inc			
4				Hydrophytic Vegeta		ors:	
5				Dominance Tes			
6				Prevalence Inde		Day Marian	
7				Morphological A data in Rema		Provide suppor eparate sheet)	
8				Problematic Hyd		. ,	
Woody Vine Stratum (Plot size:)	100	= Total Co	ver				
1				<sup>1</sup> Indicators of hydric be present, unless d			nust
		= Total Co	ver	Hydrophytic			
% Bare Ground in Herb Stratum 0		ustC		Vegetation Present?	Yes	No <u>√</u>	
Remarks:				<u> </u>			

SOIL Sampling Point: 70

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2 7.5	5 YR 3/1	98	5 YR 4/6	2	С	PL	silty clay	
					_			
			-					
				_	-			
Type: C=Conce	entration, D=Dep	letion, RM	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand Gra	ains. <sup>2</sup> Lo	ocation: PL=Pore Lining, M=Matrix.
• • • • • • • • • • • • • • • • • • • •			LRRs, unless other					s for Problematic Hydric Soils³:
Histosol (A1)			Sandy Red					Muck (A9) (LRR C)
Histic Epiped			Stripped N		1 (54)			Muck (A10) (LRR B)
Black Histic ( Hydrogen St			Loamy Mu Loamy Gle					ced Vertic (F18) Parent Material (TF2)
	yers (A5) ( <b>LRR (</b>	C)	Depleted N					(Explain in Remarks)
	(A9) ( <b>LRR D</b> )	-,	✓ Redox Da	. ,				(2) praint in tremaine)
Depleted Be	low Dark Surfac	e (A11)	Depleted [	Dark Surfa	ce (F7)			
	Surface (A12)			pressions (	(F8)			s of hydrophytic vegetation and
	xy Mineral (S1)		Vernal Po	ols (F9)				hydrology must be present,
Sandy Gleye Restrictive Laye	ed Matrix (S4)						unless	disturbed or problematic.
<sub>Type:</sub> hard p								
Depth (inches							Hydric Soi	Il Present? Yes √ No
Remarks:			<del></del>				,	
VDDQL QQY								
TUKULOGY	,							
Wetland Hydrol	ogy Indicators:		d; check all that app	oly)			Seco	andary Indicators (2 or more required)
Wetland Hydrol	ogy Indicators:		d; check all that app					ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
Wetland Hydrolo Primary Indicator	ogy Indicators: rs (minimum of coter (A1)		Salt Crus					
Wetland Hydrolo Primary Indicator Surface Wat	ogy Indicators: rs (minimum of coter (A1) Table (A2)		Salt Crus	st (B11) ust (B12)	es (B13)		;	Water Marks (B1) (Riverine)
Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks	ogy Indicators: rs (minimum of cater (A1) Table (A2) A3) s (B1) (Nonriver	ne require	Salt Crus Biotic Cru Aquatic I Hydroger	et (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		\ \ 	Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10)
Wetland Hydrold Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No	ine) nriverine)	Salt Crus Biotic Cru Aquatic I Hydroger  Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	_	\\ \\	Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrolo Primary Indicator Surface Wate High Water 7 Saturation (A Water Marks Sediment De Drift Deposite	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No	ine) nriverine)	Salt Crus Biotic Cru Aquatic I Hydroger _ ✓ Oxidized Presence	et (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	4)	\ ! ! ts (C3) !	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposit Surface Soil	ogy Indicators: rs (minimum of coter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonriver Cracks (B6)	ine) nriverine)	Salt Crus Biotic Cru Aquatic I Hydroger ✓ Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct	edor (C1) eres along ed Iron (C ion in Tille	_	ts (C3) !	Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9
Wetland Hydrolo Primary Indicator Surface Wate High Water 1 Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonrive Cracks (B6) //sible on Aerial I	ine) nriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	ts (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A) Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonrive Cracks (B6) //isible on Aerial I ed Leaves (B9)	ine) nriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	ts (C3)	Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9
Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonrive Cracks (B6) /isible on Aerial I ed Leaves (B9) ons:	ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic I Hydroger ✓ Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (C6	ts (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Surface Water High Water To Saturation (A) Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Field Observation	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonrive Cracks (B6) /isible on Aerial I ed Leaves (B9) ons: resent?	ine) nriverine) rine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (C6)	ts (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Field Observatio Surface Water Press Water Table Press	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonrive Cracks (B6) //isible on Aerial I ed Leaves (B9) ons: resent? Y	ine) nriverine) rine) Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface explain in Re nches):	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (C6)	ts (C3) !	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrolo Primary Indicator Surface Water High Water To Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine Field Observation Surface Water Prowule Process Saturation Present (includes capillar)	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonriver Cracks (B6) //isible on Aerial I ed Leaves (B9) ons: resent? yent? ry fringe)	ine) nriverine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ad Soils (C6)	ts (C3) !  ts (C3) !  () ()	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Wetland Hydrolo Primary Indicator Surface Water High Water To Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine Field Observation Surface Water Prowule Water Table Press Saturation Prese (includes capillar)	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonriver Cracks (B6) //isible on Aerial I ed Leaves (B9) ons: resent? yent? ry fringe)	ine) nriverine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ad Soils (C6)	ts (C3) !  ts (C3) !  () ()	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrolo Primary Indicator Surface Water High Water To Saturation (A Water Marks Sediment De Drift Deposite Surface Soil Inundation V Water-Staine Field Observation Surface Water Prowule Water Table Press Saturation Prese (includes capillar)	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonriver Cracks (B6) //isible on Aerial I ed Leaves (B9) ons: resent? yent? ry fringe)	ine) nriverine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ad Soils (C6)	ts (C3) !  ts (C3) !  () ()	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Field Observatio Surface Water Pr Water Table Pres Saturation Prese (includes capillar) Describe Record	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonriver Cracks (B6) //isible on Aerial I ed Leaves (B9) ons: resent? yent? ry fringe)	ine) nriverine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ad Soils (C6)	ts (C3) !  ts (C3) !  () ()	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrolo Primary Indicator Surface Wate High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Field Observatio Surface Water Pr Water Table Pres Saturation Prese (includes capillar) Describe Record	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonriver Cracks (B6) //isible on Aerial I ed Leaves (B9) ons: resent? yent? ry fringe)	ine) nriverine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ad Soils (C6)	ts (C3) !  ts (C3) !  () ()	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrolo Primary Indicator Surface Wate High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil Inundation V Water-Staine Field Observatio Surface Water Pr Water Table Pres Saturation Prese (includes capillar) Describe Record	ogy Indicators: rs (minimum of oter (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (No ts (B3) (Nonriver Cracks (B6) //isible on Aerial I ed Leaves (B9) ons: resent? yent? ry fringe)	ine) nriverine) magery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ad Soils (C6)	ts (C3) !  ts (C3) !  () ()	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	(	City/County:	Sacramer	nto County Sampling Date: 10/30/202	20
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA Sampling Point: 72	
Investigator(s): L. Burris and A. Godinho					
Landform (hillslope, terrace, etc.): flatlands					
				Long: -121.175074969026 Datum: WGS84	
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slo					
Are climatic / hydrologic conditions on the site typical for this tim					
Are Vegetation, Soil, or Hydrology signif					
Are Vegetation, Soil, or Hydrology natur					
SUMMARY OF FINDINGS - Attach site map sho	wing	samplin	g point lo	ocations, transects, important features, et	c.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓ No  No  No  No			e Sampled in a Wetlan		
Remarks: Associated feature: SW21		'			
<b>VEGETATION</b> – Use scientific names of plants.					
	Cover	Dominant Species?	Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)	
2				Total Number of Dominant Species Across All Strata:3 (B)	
4		= Total Cov		Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B	3)
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				OBL species <u>0</u> x 1 = <u>0</u>	
4				FACW species <u>0</u> x 2 = <u>0</u>	
5				FAC species $0 \times 3 = 0$	
Herb Stratum (Plot size: 1m x 1m )		= Total Cov	/er	FACU species $27.5$ $x 4 = 110$	
1. Elymus capute-medusae	45	Υ	UPL	UPL species <u>72.5</u> x 5 = <u>362.5</u>	
2. Holocarpha virgata	25	Y	UPL	Column Totals:100 (A)472.5 (B)	1
3. Bromus hordeaceus	25	Y	FACU	Prevalence Index = B/A = 47	
4. Brodiaea elegans	2.5	N	FACU	Hydrophytic Vegetation Indicators:	
5. Tritileia laxa	2.5	N	UPL	Dominance Test is >50%	
6.				Prevalence Index is ≤3.0 <sup>1</sup>	
7				Morphological Adaptations <sup>1</sup> (Provide supporting	
8				data in Remarks or on a separate sheet)	
	100	= Total Cov	/er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2		= Total Cov	/er	Hydrophytic	_
% Bare Ground in Herb Stratum 0 % Cover of E				Vegetation Present?  Yes No _ ✓	
Remarks:			<u></u>		

Depth	cription: (Describe Matrix	e to the dep		ox Feature		or commi	ii tiie abseiit	ce of mulcators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/1	97	5 YR 3/8	3	С	PL	silty clay	
			-					
	· -				-	-	-	
	_				· ———			_
	_			_				
						<u>,</u>		
		_						
	_			_				
			=					
	Concentration, D=De					ed Sand G		Location: PL=Pore Lining, M=Matrix.
-	I Indicators: (Appli	cable to all			ea.)			rs for Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Red					n Muck (A9) (LRR C)
	Epipedon (A2) Histic (A3)		Stripped M Loamy Mu	. ,	J (E1)			n Muck (A10) ( <b>LRR B</b> ) uced Vertic (F18)
	jen Sulfide (A4)		Loamy Gle					Parent Material (TF2)
	ed Layers (A5) ( <b>LRR</b>	C)	Depleted N		(12)		· · · · · · · · · · · · · · · · · · ·	er (Explain in Remarks)
	luck (A9) ( <b>LRR D</b> )	/	✓ Redox Dar		(F6)			(
	ed Below Dark Surfa	ce (A11)	Depleted D		. ,			
Thick D	Oark Surface (A12)		Redox Dep	ressions (	(F8)		<sup>3</sup> Indicato	rs of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				nd hydrology must be present,
	Gleyed Matrix (S4)						unless	s disturbed or problematic.
	Layer (if present):							
Type: h			<del></del>					
Depth (ir	nches): <u>3</u>						Hydric So	oil Present? Yes √ No
Remarks:								
İ								
HYDROLO	OGY							
Wetland Hy	ydrology Indicators	s:						
	licators (minimum of		d: check all that app	ılv)			Sec	condary Indicators (2 or more required)
	e Water (A1)	ono roquiro	Salt Crus	-			<u> </u>	Water Marks (B1) (Riverine)
	/ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
Saturat	,		Aquatic Ir		es (B13)			Drift Deposits (B3) (Riverine)
· ·	Marks (B1) ( <b>Nonrive</b>	rine)	Hydroger					Drainage Patterns (B10)
· ·	ent Deposits (B2) (No	•				Living Ro		Dry-Season Water Table (C2)
	eposits (B3) (Nonriv		Presence		_	_		Crayfish Burrows (C8)
	e Soil Cracks (B6)	oo,	Recent Ire					Saturation Visible on Aerial Imagery (C9)
·	tion Visible on Aerial	l Imagery (B				a como (co		Shallow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex		. ,			FAC-Neutral Test (D5)
Field Obse								.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Vas	No ✓ Depth (ir	nches).				
			No ✓ Depth (ir					
Water Table								
Saturation F	Present? apillary fringe)	Yes	No <u>✓</u> Depth (ir	ncnes):		wet	iana Hyaroid	ogy Present? Yes No
	ecorded Data (strear	m gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	, if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date: 10/30/2020
Applicant/Owner: D.E. Shaw Renewable Investments	State: <u>CA</u> Sampling Point: <u>73</u>
Investigator(s): L. Burris and A. Godinho	Section, Township, Range: Township 7N / Range 7E / Section 11
Landform (hillslope, terrace, etc.): Flatland	Local relief (concave, convex, none): concave Slope (%): 0
Subregion (LRR): C Lat: 38	8.46794555 Long: -121.176199810475 Datum: WGS84
	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	•
	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present?  Yes No	Within a Wetland?   Tes V No
Wetland Hydrology Present? Yes ✓ No  Remarks:	<u>-                                      </u>
Associated feature: VP-11	
heavily grazed	
VEGETATION – Use scientific names of plants.  Absolute	te Dominant Indicator   Dominance Test worksheet:
	er Species? Status Number of Dominant Species
1	
2	Total Number of Dominant
3	
4	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	= Total Cover That Are OBL, FACW, or FAC:100 (A/B)
1	Prevalence Index worksheet:
2.	
3	
4	FACW species x 2 =
5	FAC species x 3 =
Herb Stratum (Plot size: 1m x 1m )	= Total Cover FACU species x 4 =
1. Festuca perennis 30	Y FAC Column Totals: (A) (B)
	YOBL
3.	
4	
5	
6	
7	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover
1	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.	I be present linless disturbed or problematic
	= Total Cover Hydrophytic
% Bare Ground in Herb Stratum55	Vegetation   Crust0
Remarks:	

Profile Desc	cription: (Describe	to the dept	h needed to docu	ment the	indicator	or confir	m the absen	ce of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/1	93	5 YR 5/8	7	С	PL	silty clay	
			•	-			- <u> </u>	
							-	<del>_</del> ,
				_			_	
				-				
							-	
							_	
	_				. ———		-	
				_	· -		-	
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	oletion, RM=	Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	Grains. 2	Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)		Indicato	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 cr	m Muck (A9) (LRR C)
Histic Ep	pipedon (A2)		Stripped M					m Muck (A10) (LRR B)
	stic (A3)		Loamy Mud		ıl (F1)			duced Vertic (F18)
	en Sulfide (A4)		Loamy Gle					Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M		,			er (Explain in Remarks)
	ıck (A9) ( <b>LRR D</b> )	,	✓ Redox Darl	, ,	(F6)		<del></del>	,
	d Below Dark Surfac	e (A11)	Depleted D		. ,			
	ark Surface (A12)	` ,	Redox Dep		. ,		3Indicate	ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		,			nd hydrology must be present,
	Gleyed Matrix (S4)		<u> </u>	` ,				s disturbed or problematic.
Restrictive I	Layer (if present):							
Type: ha								
, , <u> </u>	ches): <u>4"</u>						Hydric S	oil Present? Yes ✓ No
	ules). <u>4</u>						riyuric 3	on Fresent: Tes No
Remarks:								
1 inch de	ep organic laye	r						
I men de	cp organic laye	.1						
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one required:	check all that app	y)			Se	condary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)				Water Marks (B1) (Riverine)
1 —	ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
Saturation	` '		Aquatic In		o (B12)			
		.:						Drift Deposits (B3) (Riverine)
	larks (B1) (Nonriver		Hydrogen					Drainage Patterns (B10)
	nt Deposits (B2) (No				_	_		Dry-Season Water Table (C2)
I — .	posits (B3) (Nonrive	rine)	Presence				· ·	Crayfish Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Iro	n Reducti	on in Tille	d Soils (C	(6)	Saturation Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial	Imagery (B7	) Thin Mucl	Surface	(C7)		_	Shallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	olain in Re	emarks)			FAC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	es N	lo <u>✓</u> Depth (in	ches):				
Water Table			lo ✓ Depth (in					
Saturation P	resent? Y	'es N	lo <u>✓</u> Depth (in	ches):		_   Wet	lland Hydrol	ogy Present? Yes No
(includes cap	corded Data (stream	naline mor	nitoring well serial	nhotos nr	evious ins	enections)	if available:	
Describe No	coraca Data (Stream	r gauge, moi	morning wen, aenai	priotos, pi	CVIOUS III	spections)	, ii availabic.	
Remarks:								
Cattle ho	of punches							
	or parieties							

Project/Site: Sloughhouse Solar Energy Project	City	//County:	Sacramer	nto County	S	ampling Date: _	10/30/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State:C	<u>A</u> Sa	ampling Point: _	74
Investigator(s): L. Burris and A. Godinho	Se	ction, Tow	nship, Ran	ige: Township 7N	V / Rang	e 7E / Section	11
Landform (hillslope, terrace, etc.): Flatland	Lo	cal relief (	concave, c	onvex, none): con	cave	Slop	oe (%):2
Subregion (LRR): C	at: 38.46	7605135	2642	Long: -121.1763	3404626	36 Datui	m: WGS84
Soil Map Unit Name: San Joaquin-Galt complex, 0 - 3% slo				-			
Are climatic / hydrologic conditions on the site typical for this tim							
Are Vegetation _ ✓ _, Soil, or Hydrology signif				Normal Circumstan			<b>/</b> No
Are Vegetation, Soil, or Hydrology natura				eded, explain any a			
							oturos oto
SUMMARY OF FINDINGS – Attach site map sho	willy so		point ic	cations, trans	ects, ii	inportant le	atures, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled	Area			
Hydric Soil Present? Yes <u>√</u> No			n a Wetlan		✓	No	_
Wetland Hydrology Present? Yes   ✓ No   Remarks:							
Associated Feature: SW-23							
Grazed.							
<b>VEGETATION</b> – Use scientific names of plants.							
	solute D	ominant		Dominance Test			
1				Number of Domin That Are OBL, FA			(A)
2							(/ //
3				Total Number of I Species Across A			(B)
4							
	=	Total Cov	er	Percent of Domin That Are OBL, FA			0 (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Inde	v workel	noot:	
1				Total % Cove			/ bv:
3				•		x 1 =	
4				FACW species 1			
5				FAC species _		x 3 =	
	=	Total Cov	er	FACU species _		x 4 =	
Herb Stratum (Plot size: 1m x 1m )	20	Υ	FAC	UPL species _			
Festuca perennis     Hordeum marinum	30 20		FAC	Column Totals: _	1	(A)	(B)
	10		FACW	Prevalence	Index =	B/A =	
4				Hydrophytic Veg			
5.				✓ Dominance T	Test is >5	0%	
6				Prevalence Ir	ndex is ≤	3.0 <sup>1</sup>	
7						tions <sup>1</sup> (Provide	
8				Problematic I		r on a separate	,
Woody Vine Stratum (Plot size:)	60 =	Total Cov	er	1 Toblematic 1	тусторту	nio vegetation	(Explair)
1				<sup>1</sup> Indicators of hyd	ric soil ar	nd wetland hydr	ology must
2				be present, unles			
	=		er	Hydrophytic			
% Bare Ground in Herb Stratum 40 % Cover of E	Biotic Crus	t 0		Vegetation Present?	Yes	✓ No	
Remarks:	0.10 0103	•	_				
1							

Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	7.5 YR 3/1	90	5 YR 5/8	10	C	PL/M	silty clay	- Tomaine
0-3	7.5 11(3/1		<u> </u>	_ 10			oney oray	
						-		
			-		· ·	-		
					· -			·
Tupo: C_Co	noontration D_Do	nlotion DM		S-Covers	d or Coot		roino <sup>2</sup> Lo	ecotion: DL_Doro Lining M_Motrix
			=Reduced Matrix, C LRRs, unless othe			eu Sanu G		s for Problematic Hydric Soils <sup>3</sup> :
Histosol (		ouble to un	Sandy Rec		July			Muck (A9) (LRR C)
	pedon (A2)		Stripped M					Muck (A10) (LRR B)
Black His			Loamy Mu		al (F1)			ced Vertic (F18)
	Sulfide (A4)		Loamy Gle				_	Parent Material (TF2)
Stratified	Layers (A5) (LRR	C)	Depleted N		, ,		Other	(Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )		Redox Dar	k Surface	(F6)			
	Below Dark Surfa	ce (A11)	Depleted D	ark Surfac	ce (F7)			
<del></del>	k Surface (A12)		Redox Dep		F8)			s of hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Poo	ols (F9)				hydrology must be present,
	eyed Matrix (S4) ayer (if present):						unless	disturbed or problematic.
Type: har								
	u puii							
,, <u> </u>							11	U.Bussauto Vas / Na
Depth (incl							Hydric So	il Present? Yes <u>√</u> No
, <u> </u>	nes): <u>3"</u>						Hydric So	il Present? Yes <u>√</u> No
Depth (incl	nes): <u>3"</u>						Hydric So	il Present? Yes <u>√</u> No
Depth (incl Remarks: Gopher bu	nes): 3"						Hydric Soi	il Present? Yes <u>√</u> No
Depth (incl Remarks: Gopher bu	nes): 3"	:					Hydric So	il Present? Yes <u>√</u> No
Depth (incl Remarks: Gopher bu YDROLOG Wetland Hyd	nes): 3"  Irrows  Y  rology Indicators		d; check all that app	lly)				ondary Indicators (2 or more required)
Depth (incl Remarks: Gopher bu YDROLOG Wetland Hydi Primary Indica	nes): 3"  Irrows  Y  rology Indicators		d; check all that app	•			Seco	
Depth (incl Remarks: Gopher bu YDROLOG Wetland Hyd Primary Indica Surface V	nes): 3"  Urrows  Y  rology Indicators ators (minimum of			t (B11)			Second Second	ondary Indicators (2 or more required)
Depth (incl Remarks: Gopher bu YDROLOG Wetland Hyd Primary Indica Surface V	hes): 3"  ITTOWS  BY  rology Indicators ators (minimum of Vater (A1) er Table (A2)		Salt Crus	t (B11) ist (B12)	es (B13)		Seco	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
Depth (incl Remarks: Gopher bu  YDROLOG Wetland Hydi Primary Indica Surface V High Watt Saturation	hes): 3"  ITTOWS  BY  rology Indicators ators (minimum of Vater (A1) er Table (A2)	one require	Salt Crus	t (B11) ist (B12) nvertebrate	, ,		Secc	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hydi  Primary Indica  Surface V  High Wate  Saturation  Water Ma	hes): 3"  Urrows  GY  rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3)	one require	Salt Crus Biotic Cru Aquatic Ir Hydrogen	t (B11) ist (B12) nvertebrate	dor (C1)	Living Roo	Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hyd  Primary Indica  Surface V  High Water Ma  Sediment	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe	dor (C1) eres along	_	<u>Secc</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (incl Remarks:  Gopher bu  IYDROLOG  Wetland Hydi  Primary Indica  Surface V  High Wate  Saturation  Water Ma  Sediment  Drift Depo	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive	one require rine) onriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	4)	<u>Secc</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hyde Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rows  SY  rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive c Deposits (B2) (No	one require rine) onriverine) erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir	t (B11) ust (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C ion in Tille	4)	Seccion Seccio	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hyde Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive E Deposits (B2) (Nonrive Soil Cracks (B6)	rine) porriverine) erine) Imagery (B	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate s Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hyde  Primary Indica  Surface V  High Wate  Saturation  Water Ma  Sediment  Drift Depo  Surface S  Inundation  Water-Sta	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B2) (No Desits (B3) (Nonrive Coil Cracks (B6) in Visible on Aerial ained Leaves (B9)	rine) porriverine) erine) Imagery (B	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate s Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hydi  Primary Indica  Surface V  High Water Ma  Sediment  Drift Depo  Surface S  Inundatio  Water-Sta	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive c Deposits (B2) (Nonrive coil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations:	one require rine) onriverine) erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hydi Primary Indica Surface V High Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta  Field Observa	r Present?	rine) porriverine) erine) Imagery (B	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface ( plain in Re	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hyde Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta  Field Observe Surface Water	rology Indicators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B3) (Nonrive Deposits	rine) priverine) erine) Imagery (B	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized ✓ Presence Recent Ir Thin Muci Other (Ex	t (B11) ust (B12) nvertebrate s Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hyde Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta  Field Observa Surface Water Water Table F Saturation Pre (includes capi	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No coil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? llary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized ✓ Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (incl Remarks:  Gopher bu  IYDROLOG  Wetland Hyde Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta  Field Observate Water Table F Saturation Pre (includes capi	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No coil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? llary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized ✓ Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (incl Remarks:  Gopher bu  IYDROLOG  Wetland Hydi Primary Indica Surface V High Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta  Field Observate Water Table F Saturation Pre (includes capi Describe Reco	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No coil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? llary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized ✓ Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (incl Remarks:  Gopher bu  IYDROLOG  Wetland Hyde Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta  Field Observate Water Table F Saturation Pre (includes capi	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No coil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? llary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized ✓ Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (incl Remarks:  Gopher bu  YDROLOG  Wetland Hydi Primary Indica Surface V High Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta  Field Observate Water Table F Saturation Pre (includes capi Describe Reco	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No coil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? llary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized ✓ Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (incl Remarks: Gopher bu  YDROLOG Wetland Hydi Primary Indica Surface V High Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta Field Observed Surface Water Water Table F Saturation Pre (includes capi Describe Reco	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No coil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? llary fringe)	rine) porriverine) erine) Imagery (B Yes Yes	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized ✓ Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir No ✓ Depth (ir	t (B11) list (B12) nvertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacramei	nto County	Sampling Date: 10/30/2	2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: SW-24	4b
Investigator(s): L. Burris and A. Godinho	(	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	ange 7E / Section 11	
Landform (hillslope, terrace, etc.): Basin		Local relief	(concave, d	convex, none): concave	Slope (%):	1
Subregion (LRR): C	Lat: 38.4	47256952	49179	Long: <u>-121.17960649</u>	95101 Datum: WGS8	34
Soil Map Unit Name: Galt clay, 2 - 5% slopes				NWI classific	cation: N/A	
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology si	gnificantly o	disturbed?	Are "	'Normal Circumstances" p	present? Yes No _	
Are Vegetation, Soil, or Hydrology na	aturally prol	blematic?	(If ne	eded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map s	showing	samplin	g point lo	ocations, transects	s, important features,	etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓ No  Yes  ✓ No  No  No  No  No  No  No  No  No  No			e Sampled in a Wetlan		′ No	
Associated Feature: SW-24 Lightly grazed.						
VEGETATION – Use scientific names of plant	S.					
Tree Stratum (Plot size:) 1	% Cover		Status	Dominance Test work Number of Dominant S That Are OBL, FACW,	pecies	A)
2				Total Number of Domin Species Across All Stra		B)
4				Percent of Dominant Sp That Are OBL, FACW,		A/B)
1.				Prevalence Index wor	ksheet:	-
2				Total % Cover of:	Multiply by:	
3				OBL species	x 1 =	
4					x 2 =	
5					x 3 =	
Herb Stratum (Plot size: 1m x 1m )		= Total Co	ver	-	x 4 =	
1. Hordeum marinum	70	Υ	FAC	· ·	x 5 =	(D)
2. Cynodon dactylon		N	FACU	Column Totals:	(A)	(D)
3. Rumex sp.				Prevalence Index	c = B/A =	
4				Hydrophytic Vegetation	on Indicators:	
5				✓ Dominance Test is		
6				Prevalence Index is		
7					iptations <sup>1</sup> (Provide supporting s or on a separate sheet)	g
8					phytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)	75	= Total Co	ver		priyus regetation (=/piam)	
1				<sup>1</sup> Indicators of hydric soi be present, unless distu	il and wetland hydrology mus urbed or problematic.	st
		= Total Co		Hydrophytic		
% Bare Ground in Herb Stratum 25 % Cover				Vegetation Present? Ye	es✓ No	
Remarks:						
Change in vegetation species composition						

SOIL Sampling Point: SW-24b

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence of	indicators.)
Depth	Matrix			x Features		. 2	_	
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 4/1	100					<u>C</u>	
	-						-	
	-			<del></del>				
1								
	oncentration, D=Dep					d Sand Gra		ion: PL=Pore Lining, M=Matrix.
-	ndicators: (Applic	able to all L			ea.)			r Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,				ck (A9) (LRR C)
	pipedon (A2)		Stripped Ma		L (E4)			ck (A10) (LRR B)
Black His	n Sulfide (A4)		Loamy Mud Loamy Gley					Vertic (F18) ent Material (TF2)
	d Layers (A5) ( <b>LRR (</b>	<u>~)</u>	Loanly Gley		(Г2)			kplain in Remarks)
	ick (A9) ( <b>LRR D</b> )	<b>G</b> )	Redox Dark	, ,	F6)		Other (LX	cpiairi ir Remarks)
	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)	- ( )	Redox Dep				<sup>3</sup> Indicators of	hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pool		,			drology must be present,
	leyed Matrix (S4)		<del></del>	, ,				urbed or problematic.
Restrictive L	ayer (if present):							
Type: Cla	aypan							
Depth (inc	ches): <u>4"</u>						Hydric Soil Pr	resent? Yes √ No
Remarks:	, -							
HYDROLO	_							
	drology Indicators:							
-	cators (minimum of c	ne required;	check all that appl	y)			<u>Seconda</u>	ary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)				er Marks (B1) ( <b>Riverine</b> )
High Wa	ter Table (A2)		Biotic Crus	st (B12)			Sed	iment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic In	vertebrate	s (B13)		Drift	Deposits (B3) (Riverine)
Water M	arks (B1) (Nonriver	ine)	Hydrogen	Sulfide Od	dor (C1)		Drai	inage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized F	Rhizosphe	res along	Living Roo	ts (C3) Dry-	Season Water Table (C2)
Drift Dep	oosits (B3) (Nonrive	rine)	Presence	of Reduce	d Iron (C4	<b>!</b> )	Cray	yfish Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Iro	n Reduction	on in Tilled	d Soils (C6	) Satu	uration Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial I	lmagery (B7)	Thin Muck	Surface (	C7)		Sha	llow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Exp	olain in Re	marks)		FAC	C-Neutral Test (D5)
Field Observ	vations:							
Surface Water	er Present? Y	es No	o <u>√</u> Depth (in	ches):				
Water Table			Depth (in					
Saturation Pr			Depth (in				and Hydrology P	Present? Yes No
(includes cap		CS 140	Deptii (iii	CHES)		_   ******	ilia i iyal ology i	163 <u>v</u> 160
	corded Data (stream	gauge, mon	itoring well, aerial	photos, pro	evious ins	pections), i	if available:	
Remarks:								
Cow hoof	nunches Man	-made w	atland fod by	woll /I	aura's r	nic)		
COM HOOF	punches. Man	rinaue We	Ecialia, lea by	well (L	aura S [	וטונ		

Project/Site: Sloughhouse Solar Energy Project	(	City/Coun	<sub>ty:</sub> <u>Sacrame</u> ı	nto County	Sampling Date:	10/30/2020		
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	78		
Investigator(s): L. Burris and A. Godinho	;	Section, T	ownship, Rar	nge: <u>Township 7N / Ra</u>	inge 7E / Section	11		
Landform (hillslope, terrace, etc.): basin		Local relie	ef (concave, o	convex, none): concave	Slope	e (%): <u>2</u>		
Subregion (LRR): C	Lat: 38.4	4727280	7	Long: <u>-121.1793498</u>	Datum	: WGS84		
	NWI classification: N/A							
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, Soil, or Hydrology signs of the sign of the s				Normal Circumstances" p		No		
Are Vegetation, Soil, or Hydrology na				eded, explain any answe				
SUMMARY OF FINDINGS – Attach site map s						tures etc		
			ng ponit it		, important roa			
Hydrophytic Vegetation Present? Yes No		Is t	the Sampled	Area				
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No		wit	thin a Wetlan	id? Yes	No <u>√</u>			
Remarks:								
Associated Feature: SW24								
7.5500.00000000000000000000000000000000								
VEGETATION – Use scientific names of plant								
Table 1 and		Dominar	nt Indicator	Dominance Test work	sheet:			
Tree Stratum (Plot size:)			? Status	Number of Dominant Sp				
1				That Are OBL, FACW, o	or FAC:0	(A)		
2				Total Number of Domin				
3				Species Across All Stra	ıta: <u>3</u>	(B)		
4	0			Percent of Dominant Sp		(A /D)		
Sapling/Shrub Stratum (Plot size:)		_ rotar c		That Are OBL, FACW, o	orfac:	(A/b)		
1				Prevalence Index work				
2				Total % Cover of:				
3				OBL species 0				
4.       5.				FAC species 5				
		= Total C		FACU species 30				
Herb Stratum (Plot size: 1m x 1m )				UPL species 50				
1. Holocarpha virgata		Y	UPL	Column Totals: 85	<u>5</u> (A) <u>3</u>	85 (B)		
2. Bromus hordeaceus		Y	<u>FACU</u>	Drovolonoo Indov	D/A 1 E	:		
Elymus caput-medusae     Festuca perennis	<u>25</u> 5	Y N	<u>UPL</u> FAC	Hydrophytic Vegetation	= B/A = 4.5	<u> </u>		
			_	Dominance Test is				
5 6				Prevalence Index is				
7				Morphological Ada	ptations¹ (Provide s			
8.					s or on a separate s	,		
		= Total C	Cover	Problematic Hydrop	phytic Vegetation' (I	Explain)		
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	il and watland bydra	logy must		
1			_	be present, unless distu				
2	0		cover	Hydrophytic				
	of Biotic Cr			Vegetation	s No✓	,		
Remarks:	OI BIOLIC CI			Fresent? Tes	5 NO_ <u>v</u>	_		
Tromano.								
T. Control of the con								

O-2 7.5 YR 4/1 100 C    Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.   ^2Location: PL=Pore Lining, M= Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Sill Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Sill Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Sill Hydric Soil Indicators: (Applicable to Applicable to Applicable to Application (Application (Appli	(inches) Co	Matrix olor (moist)	%	Color (n		x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	e Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  **Location: PL=Pore Lining, Metydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histos (A1)  Sandy Redox (S5)  Histos (A2)  Histos (A2)  Black Histis (A3)  Loarny Mucky Mineral (F1)  Reduced Vertic (F18)  Redox Dark Surface (F10)  Timick Dark Surface (A12)  Redox Deptembers (F7)  Thick Dark Surface (A12)  Redox Deptembers (F7)  Thick Dark Surface (A12)  Redox Deptembers (F7)  **Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic.  **Retrictive Layer (if present):  Type: hard pan  Depth (inches): 2  **Remarks:*  **YPROLOGY**  **Weltand Hydrology Indicators:  **Timery Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more  Surface Water (A1)  Salt Crust (B11)  Water Marks (B1) (Nonriverine)  Presence of Reduced Iron (C4)  Drift Deposits (B2) (Nonriverine)  Presence of Reduced Iron (C4)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Salturation (Texposits (B4) (Monriverine)  Presence of Reduced Iron (C4)  Salturation (Texposits (B4) (Monriverine)  Presence of Reduced Iron (C4)  Salturation (Texposits (B4) (Monriverine)  Presence of Reduced Iron (C4)  Salturation (Texposits (B4) (Monriverine)  Presence of Reduced Iron (C4)  Salturation (Texposits (B4) (Monriverine)  Presence of Reduced Iron (C4)  Salturation (Texposits (B4) (Monrive				00101 (11	110101)		Турс			- Komano
Indicators: (Applicable to all LRRs, unless otherwise noted.)	7.5	111 4/ 1	100						<u> </u>	
Indicators: (Applicable to all LRRs, unless otherwise noted.)										<del></del>
Indicators: (Applicable to all LRRs, unless otherwise noted.)										
Indicators: (Applicable to all LRRs, unless otherwise noted.)										
Indicators: (Applicable to all LRRs, unless otherwise noted.)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5)			· ——							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5)										
Histosol (A1)										
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3)								ed Sand G	rains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2)  Black Histic (A3)  Black Histic (A3)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Reduced Vertic (F18)  Redu	lydric Soil Indica	tors: (Applic	able to all	LRRs, unle	ess other	wise note	ed.)		Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18)	Histosol (A1)			Sa	ndy Redo	ox (S5)			10	cm Muck (A9) (LRR C)
Hydrogen Sulfide (A4)	Histic Epipedo	n (A2)		Str	ripped Ma	trix (S6)			20	cm Muck (A10) (LRR B)
Stratified Layers (A5) (LRR C)	_ `	,								` '
							(F2)			
Depleted Below Dark Surface (A11)			<b>C</b> )				F0)		Ot	her (Explain in Remarks)
Thick Dark Surface (A12)			o (A11)			,	,			
Sandy Mucky Mineral (S1)			e (ATT)						<sup>3</sup> Indica	tors of hydrophytic vagetation and
							0)			
Restrictive Layer (if present):     Type: hard pan     Depth (inches): 2				~	111011 001	3 (1 3)				
Type: hard pan Depth (inches): 2									1	
Pydric Soil Present? Yes										
YDROLOGY   Wetland Hydrology Indicators:   Secondary Indicators (2 or more   Surface Water (A1)	,, <del></del>								Hydric	Soil Present? Yes ✓ No
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         _ Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         _ High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         _ Water Marks (B1) (Nonriverine)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         _ Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         _ Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C2         _ Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         _ Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial In Internation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         _ Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:       Surface Water Present?       Yes No ✓ Depth (inches):         _ Saturation Present?       Yes No ✓ Depth (inches):         _ Saturation Present?       Yes No ✓ Depth (inches): <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>11,741.10</td><td></td></t<>									11,741.10	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C2         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Inagery (B7)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):       Wetland Hydrology Present? Yes       Yes         Water Table Present?       Yes       No       Depth (inches):       Wetland Hydrology Present? Yes       Describe Recorded Data (stream gauge, monitoring well, a										
Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Dry-Season Water Table (C2  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Saturation Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Saturation Present? Yes No ✓ Depth										
Surface Water (A1)										
High Water Table (A2)		gy Indicators:								
Mater Marks (B1) (Nonriverine)	Wetland Hydrolog			d; check all	that apply	<i>y</i> )			<u>S</u>	econdary Indicators (2 or more required)
Water Marks (B1) (Nonriverine)	Wetland Hydrolog Primary Indicators	(minimum of o								
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2 Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present? Yes No✓ Depth (inches):	Wetland Hydrolog Primary Indicators Surface Water	(minimum of o		s	alt Crust	(B11)				
Drift Deposits (B3) (Nonriverine)	Wetland Hydrolog Primary Indicators Surface Water High Water Ta	(minimum of o (A1) able (A2)		S B	alt Crust	(B11) st (B12)	s (B13)			_ Water Marks (B1) (Riverine)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Security Depth (inches):	Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3	(minimum of o (A1) able (A2)	one required	S B A	alt Crust iotic Crus quatic Inv	(B11) st (B12) vertebrate	, ,			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I	(minimum of o (A1) able (A2) b) B1) ( <b>Nonriver</b> i	ne required	S B A H	alt Crust iotic Crus quatic Inv	(B11) et (B12) vertebrate Sulfide Od	dor (C1)	Living Ro	- - - -	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Water Table Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Wetland Hydrology Present? Yes (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I	(minimum of o (A1) able (A2) b) B1) (Nonriveriosits (B2) (Noriveriosits (B2) (Noriveri	ine) nriverine)	S B A H	alt Crust iotic Crus quatic Inv lydrogen	(B11) st (B12) vertebrate Sulfide Oc	dor (C1) res along	_	- - - ots (C3) _	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Field Observations:  Surface Water Present? Yes No _ ✓ Depth (inches):  Water Table Present? Yes No _ ✓ Depth (inches):  Saturation Present? Yes No _ ✓ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo	(minimum of o (A1) sble (A2) s) B1) (Nonriveriosits (B2) (Noi (B3) (Nonriveriosits)	ine) nriverine)	S B A H C	alt Crust iotic Crus quatic Inv lydrogen exidized R	(B11) st (B12) vertebrate Sulfide Oct thizosphe	dor (C1) res along d Iron (C4	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Surface Water Present? Yes No ✓ _ Depth (inches): Water Table Present? Yes No ✓ _ Depth (inches): Saturation Present? Yes No ✓ _ Depth (inches): Wetland Hydrology Present? Yes (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deporation Control Surface Soil C	(minimum of o (A1) (ble (A2) (b) B1) (Nonriveriosits (B2) (Non (B3) (Nonriveriacks (B6)	ine required ine) nriverine) rine)	S B A H C P	alt Crust iotic Crust quatic Inv lydrogen oxidized R resence of	(B11) st (B12) vertebrate Sulfide Oc thizospher of Reduce n Reduction	dor (C1) res along d Iron (C4 on in Tille	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Water Table Present? Yes No ✓ _ Depth (inches):   Saturation Present? Yes No ✓ _ Depth (inches):   Wetland Hydrology Present? Yes   Saturation Present? Yes No ✓ _ Depth (inches):   Wetland Hydrology Present? Yes   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits ( Surface Soil C Inundation Visi	(minimum of o (A1) able (A2) b) B1) (Nonriveriosits (B2) (Nonriveriosits (B3) (Nonriveriosits (B6)) ible on Aerial I	ine required ine) nriverine) rine)	S B A H C P R 7) T	alt Crust iotic Crust quatic Inv lydrogen oxidized R resence of ecent Iron	(B11) st (B12) vertebrate Sulfide Oc thizosphe of Reduce n Reductio Surface (	dor (C1) res along d Iron (C4 on in Tille C7)	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Ca) Shallow Aquitard (D3)
Saturation Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits ( Surface Soil C Inundation Visi	(minimum of o (A1) able (A2) b) B1) (Nonriveriosits (B2) (Nonriveriosits (B2) (Nonriveriosits (B6) aracks (B6) bible on Aerial I Leaves (B9)	ine required ine) nriverine) rine)	S B A H C P R 7) T	alt Crust iotic Crust quatic Inv lydrogen oxidized R resence of ecent Iron	(B11) st (B12) vertebrate Sulfide Oc thizosphe of Reduce n Reductio Surface (	dor (C1) res along d Iron (C4 on in Tille C7)	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Ca) Shallow Aquitard (D3)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deporift Deposits ( Surface Soil C Inundation Visi Water-Stained	(minimum of o (A1) able (A2) b) B1) (Nonriveriosits (B2) (Nonriveriosits (B2) (Nonriverioracks (B6) ible on Aerial I I Leaves (B9)	ine) nriverine) rine) magery (B	S B A H C P R 7) T C	alt Crust iotic Crust quatic Inv lydrogen bxidized R resence c lecent Irol hin Muck bther (Exp	(B11) of (B12) vertebrate Sulfide Oc Rhizospher of Reduce n Reductic Surface ( blain in Re	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Ca) Shallow Aquitard (D3)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deportation Vision Water-Stained Field Observation  Primary Indicators Surface Soil C Inundation Vision Water-Stained Field Observation Surface Water Pres	(minimum of o (A1) (ble (A2) b) B1) (Nonriveriosits (B2) (Noriveriosits (B2) (Noriveriosits (B6) ible on Aerial I Leaves (B9) is: sent?	ine) nriverine) rine) magery (B	S B A C P R 7) T C	alt Crust iotic Crust quatic Inv lydrogen exidized R resence c ecent Iro hin Muck other (Exp	(B11) st (B12) vertebrate Sulfide Oc Rhizospher of Reduce on Reductic Surface ( olain in Re	dor (C1) res along d Iron (C4 on in Tille C7) marks)	4) d Soils (C	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Ca) Shallow Aquitard (D3)
	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits (I Surface Soil C Inundation Vision Water-Stained Field Observation Surface Water Prese Water Table Prese	(minimum of of (A1)) (ible (A2) (i)) (B1) (Nonriveriosits (B2) (Noriveriosits (B3) (Nonriveriosits (B6)) (ible on Aerial I Leaves (B9) (is: (int? Y	ine) nriverine) magery (B:	S B A H C P R 7) T C	alt Crust iotic Crust quatic Involved Program (Involved Program (I	(B11) st (B12) vertebrate Sulfide Oc thizospher of Reduce on Reductic Surface ( blain in Re ches): ches):	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Canal Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deporate Soil C Inundation Vision Water-Stained Field Observation Surface Water Prese Staturation Present includes capillary for	(minimum of o (A1) (ble (A2) (b) B1) (Nonriveriosits (B2) (Nonriveriosits (B2) (Nonriveriosits (B6) (B3) (Nonriveriosits (B6) (ble on Aerial I Leaves (B9) (ble on Aerial I Leaves (B9)	ine) nriverine) magery (Bi	S B A H C P R 7) T C No _✓ [ No _✓ [ No _✓ [	alt Crust iotic Crust quatic Inv lydrogen oxidized R resence of ecent Iron hin Muck other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oct thizosphe of Reduce on Reductic Surface ( plain in Re ches): ches):	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C	ots (C3)	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Cand Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Remarks:	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deporate Soil C Inundation Vision Water-Stained Field Observation Surface Water Prese Staturation Present includes capillary for	(minimum of o (A1) (ble (A2) (b) B1) (Nonriveriosits (B2) (Nonriveriosits (B2) (Nonriveriosits (B6) (B3) (Nonriveriosits (B6) (ble on Aerial I Leaves (B9) (ble on Aerial I Leaves (B9)	ine) nriverine) magery (Bi	S B A H C P R 7) T C No _✓ [ No _✓ [ No _✓ [	alt Crust iotic Crust quatic Inv lydrogen oxidized R resence of ecent Iron hin Muck other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oct thizosphe of Reduce on Reductic Surface ( plain in Re ches): ches):	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C	ots (C3)	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (Cand Shallow Aquitard (D3)  FAC-Neutral Test (D5)
	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deportation Vision Water-Stained Field Observation Surface Water Prese Saturation Present includes capillary for	(minimum of o (A1) (ble (A2) (b) B1) (Nonriveriosits (B2) (Nonriveriosits (B2) (Nonriveriosits (B6) (B3) (Nonriveriosits (B6) (ble on Aerial I Leaves (B9) (ble on Aerial I Leaves (B9)	ine) nriverine) magery (Bi	S B A H C P R 7) T C No _✓ [ No _✓ [ No _✓ [	alt Crust iotic Crust quatic Inv lydrogen oxidized R resence of ecent Iron hin Muck other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oct thizosphe of Reduce on Reductic Surface ( plain in Re ches): ches):	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Cand Shallow Aquitard (D3) FAC-Neutral Test (D5)
	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deportation Vision Water-Stained Field Observation Surface Water Prese Saturation Present includes capillary for	(minimum of o (A1) (ble (A2) (b) B1) (Nonriveriosits (B2) (Nonriveriosits (B2) (Nonriveriosits (B6) (B3) (Nonriveriosits (B6) (ble on Aerial I Leaves (B9) (ble on Aerial I Leaves (B9)	ine) nriverine) magery (Bi	S B A H C P R 7) T C No _✓ [ No _✓ [ No _✓ [	alt Crust iotic Crust quatic Inv lydrogen oxidized R resence of ecent Iron hin Muck other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oct thizosphe of Reduce on Reductic Surface ( plain in Re ches): ches):	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Cand Shallow Aquitard (D3) FAC-Neutral Test (D5)
	Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deportation Vision Water-Stained Field Observation Surface Water Prese Saturation Present includes capillary for	(minimum of o (A1) (ble (A2) (b) B1) (Nonriveriosits (B2) (Nonriveriosits (B2) (Nonriveriosits (B6) (B3) (Nonriveriosits (B6) (ble on Aerial I Leaves (B9) (ble on Aerial I Leaves (B9)	ine) nriverine) magery (Bi	S B A H C P R 7) T C No _✓ [ No _✓ [ No _✓ [	alt Crust iotic Crust quatic Inv lydrogen oxidized R resence of ecent Iron hin Muck other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oct thizosphe of Reduce on Reductic Surface ( plain in Re ches): ches):	dor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Cand Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project		City/County	: Sacrame	ento County	Sampling Date:	10/30/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point:	79
Investigator(s): L. Burris and A. Godinho		Section, To	wnship, Ra	inge: <u>Township 7N / R</u>	ange 7E / Section	11
Landform (hillslope, terrace, etc.): Plateau		Local relief	(concave,	convex, none): convex	Slop	e (%):0
Subregion (LRR): C	Lat: 38.	47346035	9364	Long: -121.1761632	25498 Datum	n: WGS84
Soil Map Unit Name: Peters clay, 1 - 8% slopes				-		
Are climatic / hydrologic conditions on the site typical for th						
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map	snowing	sampiin	g point i	ocations, transects	s, important fea	itures, etc.
Hydrophytic Vegetation Present? Yes I		Is th	e Sampled	d Area		
Hydric Soil Present? Yes _ ✓			in a Wetlaı		/ No	
Wetland Hydrology Present? Yes   ✓ I  Remarks:	No					
Associated feature: SW25						
Heavily grazed.						
VEGETATION – Use scientific names of plan						
Tree Stratum (Plot size:)		Dominant Species?		Dominance Test work		
1				Number of Dominant S That Are OBL, FACW,		(A)
2				Total Number of Domi	nant	
3				Species Across All Str		(B)
4				Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW,		(A/B)
1				Prevalence Index wo	rksheet:	
2				Total % Cover of:		by:
3.				OBL species		
4.				FACW species		
5				FAC species	x 3 =	
Em v Em		= Total Co	ver	FACU species		
Herb Stratum (Plot size: 5m x 5m )  1. Cynodon dactylon	_	N	FACU	UPL species		
Bromus hordeaceus (Unidentifiable thatch)	5	N	FACU	Column Totals:	(A)	(B)
3. Hordeum marinum (Unidentifiable thatch)	77.5	Y	FAC	Prevalence Index	x = B/A =	
Festuca perennis (Unidentifiable thatch)			FAC	Hydrophytic Vegetati		
5. Convolvulus arvensis	2.5	N	UPL	✓ Dominance Test is	s >50%	
6.				Prevalence Index		
7					aptations <sup>1</sup> (Provide s	
8				Problematic Hydro	ks or on a separate s	
Wash Vina Chahan (Distains	85	= Total Co	ver	Floblematic Hydro	opriyiic vegetation (	Explail)
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric so	oil and wetland hydro	ology must
2				be present, unless dist		
		= Total Co	ver	Hydrophytic		
% Bare Ground in Herb Stratum15	er of Biotic C	rust (	)	Vegetation Present? Yes	es <u>√</u> No	
Remarks:				1.000.10		
	_					
Vegetation not identifiable due to grazing	3.					
T. Control of the Con						

		to the dep	oth needed to docu	ment the		or confirn	n the absence o	t indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup> _	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 3/2	95	5 YR 4/6	_5	С	M/PL	silty clay	
				_		· ——	-	
				_	-			
		_	_		_			_
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RM	l=Reduced Matrix, C	S=Covere	ed or Coate	ed Sand G	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	rwise no	ted.)		Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,			1 cm Mu	uck (A9) (LRR C)
	oipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu					d Vertic (F18)
	en Sulfide (A4)	0)	Loamy Gle	-	. ,			rent Material (TF2)
	d Layers (A5) ( <b>LRR</b> uck (A9) ( <b>LRR D</b> )	<b>C</b> )	Depleted № ✓ Redox Dar				Other (E	Explain in Remarks)
	d Below Dark Surfac	re (Δ11)	Depleted D		` '			
	ark Surface (A12)	)O (/111)	Redox Dep				<sup>3</sup> Indicators o	f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		( - /			ydrology must be present,
	Bleyed Matrix (S4)		<del></del>	, ,				turbed or problematic.
	Layer (if present):							
<sub>Type:</sub> <u>ha</u>	rd pan							
Depth (in	ches): 2"						Hydric Soil P	Present? Yes <u>√</u> No
Remarks:							•	
HYDROLO								
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one require	ed; check all that app	ly)			Second	lary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	t (B11)			Wa	ater Marks (B1) ( <b>Riverine</b> )
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Se	diment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic Ir	overtebrate	es (B13)		Dri	ft Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonrive</b> r	rine)	Hydrogen	Sulfide C	odor (C1)		Dra	ainage Patterns (B10)
Sedime	nt Deposits (B2) (No	nriverine)	✓ Oxidized	Rhizosphe	eres along	Living Roo	ots (C3) Dry	/-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence	of Reduc	ed Iron (C	4)	Cra	ayfish Burrows (C8)
	Soil Cracks (B6)			on Reduct	tion in Tille	ed Soils (C6	6) Sat	turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (E	· —				<del></del>	allow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in R	emarks)		FA	C-Neutral Test (D5)
Field Obser			,					
Surface Wat			No <u>✓</u> Depth (ir					
Water Table			No <u>√</u> Depth (ir					
Saturation P (includes cap	resent?	/es	No <u>✓</u> Depth (ir	nches):		Wetl	and Hydrology	Present? Yes No
		n gauge, m	onitoring well, aerial	photos, p	revious in:	spections),	if available:	
	·							
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacrame	ento County	Sampling Date: _	10/30/2020
Applicant/Owner: D.E. Shaw Renewable Investments	5			State: CA	_ Sampling Point: _	80
Investigator(s): L. Burris and A. Godinho	;	Section, To	wnship, Ra	nge: <u>Township 7N / Ra</u>	ange 7E / Section	11
Landform (hillslope, terrace, etc.): Flatland		Local relief	(concave,	convex, none): concave	Slor	oe (%):2
Subregion (LRR): C						
Soil Map Unit Name: Peters clay, 1 - 8% slopes				=		
Are climatic / hydrologic conditions on the site typical for the site ty						
Are Vegetation _ ✓ _, Soil, or Hydrology				"Normal Circumstances"		' No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site ma						oturos oto
SOMMANT OF FINDINGS - Attach site ma	p snowing	Sampiin	g point i		s, important le	atures, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u>		Is th	e Sampled	l Area		
Hydric Soil Present? Yes		with	in a Wetlar	nd? Yes	No <u></u> ✓	
Wetland Hydrology Present? Yes   ✓  Remarks:	No					
Associated Feature: SW27						
Moderately grazed						
VEGETATION – Use scientific names of pla						
Tree Stratum (Plot size:)	Absolute <u>% Cover</u>			Dominance Test work		
1	<u> </u>			Number of Dominant S That Are OBL, FACW,		(A)
2.						
3				Total Number of Domir Species Across All Stra		(B)
4				Percent of Dominant S	snacias	
Carling/Charle Charles (District		= Total Co	ver	That Are OBL, FACW,		0 (A/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index wor	rksheet	
2				Total % Cover of:		/ bv:
3				OBL species		
4.				FACW species		
5				FAC species	x 3 =	
		= Total Co	ver	FACU species	x 4 =	
Herb Stratum (Plot size: 1m x 1m )  1. Hordeum marinum	40	Υ	FAC	UPL species		
Hordeum marinum     Festuca perennis			FAC	Column Totals:	(A)	(B)
3. <u>Lactuca serriola</u>		N	UPL	Prevalence Index	x = B/A =	
4. Holocarpha virgata		N	UPL	Hydrophytic Vegetati		
5				✓ Dominance Test is	s >50%	
6.				Prevalence Index	is ≤3.0 <sup>1</sup>	
7					aptations <sup>1</sup> (Provide	
8				Problematic Hydro	s or on a separate	,
Manda Vine Charters (Diet sine)	75	= Total Co	ver	Floblematic Hydro	priytic vegetation	(Explain)
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric so	il and wetland hvdr	ology must
2				be present, unless dist		
		= Total Co	ver	Hydrophytic		
% Bare Ground in Herb Stratum 25 % Co				Vegetation Present? Ye	es _ √ _ No	
Remarks:	AEL OF PIONE CL	ust	<del>-</del>	rieseitt: 16	;5 <u>v</u> NU	
Tomano.						

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the	ndicator	or confirm	n the absenc	e of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/2	97	5 YR 4/6	3	С	PL/M	silty clay	
				-				
				<u> </u>				_
1Typo: C-C	noontration D_Don	lotion DM	=Reduced Matrix, C	S-Covere	d or Coot	od Sond Cr	roino <sup>2</sup> L	ocation: PL=Pore Lining, M=Matrix.
			I LRRs, unless othe			eu Sanu Gi		's for Problematic Hydric Soils <sup>3</sup> :
		abic to an			cu.,			•
Histosol			Sandy Red					Muck (A9) (LRR C)
	pipedon (A2)		Stripped M		I (E4)			Muck (A10) (LRR B)
Black His	n Sulfide (A4)		Loamy Muc					uced Vertic (F18)
	l Layers (A5) ( <b>LRR</b> (	C)	Loamy Gle Depleted M		(FZ)			Parent Material (TF2) r (Explain in Remarks)
	ick (A9) ( <b>LRR D</b> )	<b>C</b> )	Depleted iv	. ,	(E6)		Othe	(Explain in Remarks)
	d Below Dark Surfac	- (Δ11)	Depleted D		. ,			
	ark Surface (A12)	O (/ (/ 1)	Redox Dep				<sup>3</sup> Indicator	s of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Poo		. 0)			d hydrology must be present,
	sleyed Matrix (S4)		voinair oo	.0 (1 0)				disturbed or problematic.
	ayer (if present):							
Type: hai								
Depth (inc							Hydric So	il Present? Yes <u>√</u> No
	51100). <u>3</u>						Tiyano oo	105 <u>v</u> 105 <u>v</u>
Remarks:								
HYDROLO	GV							
_	drology Indicators:							
Primary Indic	cators (minimum of c	ne require	ed; check all that app	y)			Seco	ondary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)				Water Marks (B1) (Riverine)
High Wa	iter Table (A2)		Biotic Cru	st (B12)				Sediment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic In	vertebrate	s (B13)			Drift Deposits (B3) (Riverine)
Water M	arks (B1) (Nonriver	ine)	Hydrogen	Sulfide O	dor (C1)			Drainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	<ul> <li>✓ Oxidized I</li> </ul>	Rhizosphe	res along	Living Roc	ots (C3)	Dry-Season Water Table (C2)
	oosits (B3) (Nonrive		Presence		-	_		Crayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro					Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	lmanery (F				, a		Shallow Aquitard (D3)
	tained Leaves (B9)	imagery (E	Other (Ex					FAC-Neutral Test (D5)
Field Observ			Other (EX	piaiii iii ixe	iliaiks)			TAC-Neutral Test (D3)
		<b>'</b> 00	No / Donth (in	ahaa).				
Surface Water			No ✓ Depth (in					
Water Table			No <u>√</u> Depth (in					,
Saturation Pr		'es	No <u>✓</u> Depth (in	ches):		Wetla	and Hydrolo	gy Present? Yes No
(includes cap		n dallide m	onitoring well, aerial	nhotos nr	avious in	enections)	if available.	
Describe Nec	coraca Data (stream	i gaage, iii	ormorning well, aeriai	priotos, pr	CVIOUS III	зреспонз),	ii availabic.	
December								
Remarks:								
Cow hoof	punches							

Project/Site: Sloughhouse Solar Energy Project	City/Co	ounty: S	Sacrame	nto County	Sampling Date: _	10/30/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	81
Investigator(s): L. Burris and A. Godinho	Sectio	n, Towi	nship, Ra	nge: Township 7N / Ra	nge 7E / Section	11
Landform (hillslope, terrace, etc.): Peters clay, 1 - 8% slopes	Local	relief (d	concave,	convex, none): concave	Slop	oe (%):2
Subregion (LRR): C Lat:	38.47715	516297	7374	Long: -121.17640825	53869 Datur	<sub>n:</sub> WGS84
Soil Map Unit Name: Peters clay, 1 - 8% slopes				-		
Are climatic / hydrologic conditions on the site typical for this time of						
Are Vegetation, Soil, or Hydrology significa				"Normal Circumstances" p		' No
Are Vegetation, Soil, or Hydrology naturally				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map show						atures. etc.
		13			,	
Hydrophytic Vegetation Present? Yes   ✓ No		Is the	Sampled	l Area		
Hydric Soil Present? Yes _ ✓ No  Wetland Hydrology Present? Yes _ ✓ No		within	a Wetlar	nd? Yes <u>√</u>	No	
Remarks:						
Associated Feature: SW-28						
Heavily grazed.						
VEGETATION – Use scientific names of plants.						
	lute Dom	inant li	ndicator	Dominance Test work	rsheet	
	over Spec			Number of Dominant S		
1				That Are OBL, FACW,		(A)
2				Total Number of Domin	iant	
3				Species Across All Stra	ıta: <u>2</u>	(B)
4	_			Percent of Dominant Sp		•
Sapling/Shrub Stratum (Plot size:)	<u>0</u> = Tota	ai Cove	er	That Are OBL, FACW,	or FAC:100	0 (A/B)
1				Prevalence Index wor	ksheet:	
2				Total % Cover of:	Multiply	by:
3				OBL species		
4				FACW species		
5				FACULARIANIA		
Herb Stratum (Plot size: 1m x 1m )	<u>0</u> = Tota	al Cove	er	FACU species		
1. Hordeum marinum 2	0 Y	<u> </u>	FAC	Column Totals:		
2. Festuca perennis 2	<u>0 Y</u>	/	FAC	Column Totals.	(^)	(D)
3. Rumex dentatus 2.	.5 1	<u> </u>	FACW		: = B/A =	
	.5 N	<u> </u>	FAC	Hydrophytic Vegetation		
5. Polypogon monspeliensis 2.			FACW	✓ Dominance Test is		
	.5 N		OBL	Prevalence Index is		
7				Morphological Ada data in Remarks	iptations" (Provide s s or on a separate s	
8				Problematic Hydro	·	,
Woody Vine Stratum (Plot size:)	<u>0</u> = Tota	al Cove	er			
1				<sup>1</sup> Indicators of hydric soi		
2				be present, unless distu	urbed or problemati	ic.
	<u> </u>	al Cove	er	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 50	tic Crust _	0			s <u>√</u> No	
Remarks:				1		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			x Feature		. 2	<b>-</b> .	5 .
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/1	95	5 YR 4/6	5	<u>C</u>	<u>M</u>	silty clay	
				-				
1Type: C-C	oncentration D-De	oletion PM	=Reduced Matrix, CS	-Covere	d or Coate	ad Sand G	raine <sup>2</sup> l oca	tion: PL=Pore Lining, M=Matrix.
			LRRs, unless other			od Odrid Oi		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redo		,			ick (A9) (LRR C)
	oipedon (A2)		Stripped Ma					ick (A10) (LRR B)
	stic (A3)		Loamy Mucl		al (F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gley					rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted Ma				Other (E	explain in Remarks)
1 cm Mu	ıck (A9) ( <b>LRR D</b> )		Redox Dark	Surface	(F6)			
	d Below Dark Surfac	ce (A11)	Depleted Da	ark Surfac	ce (F7)			
· <del></del>	ark Surface (A12)		Redox Depr		F8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pools	s (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Type: <u>ha</u>								
Depth (in	ches): <u>3"</u>						Hydric Soil P	resent? Yes No
Remarks:								
HYDROLO	GY							
	drology Indicators							
_			ed; check all that apply	()			Second	ary Indicators (2 or more required)
-	Water (A1)	one require						ater Marks (B1) ( <b>Riverine</b> )
_	ater Table (A2)		Salt Crust Biotic Crus				· · · · · · · · · · · · · · · · · · ·	diment Deposits (B2) (Riverine)
Saturation	` ,				oc (B12)			
	larks (B1) ( <b>Nonrive</b>	rino)	Aquatic Inv					ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b>				, ,	Living Poo		r-Season Water Table (C2)
	posits (B3) ( <b>Nonriv</b> e	,	Oxidized N		_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	iiiie)	Recent Iro					turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (F				u oons (ot		allow Aquitard (D3)
	tained Leaves (B9)	iiiageiy (L	Other (Exp					C-Neutral Test (D5)
Field Obser			Other (Exp	nani iii ike	Ziliaiks)	1		O Neutral Test (DS)
Surface Water		/os	No ✓ Depth (inc	chas).				
			No ✓ Depth (inc					
Water Table								December Voc. / No.
Saturation P (includes cap		res	No <u>✓</u> Depth (inc	cnes):		weti	and Hydrology	Present? Yes No
		n gauge, m	onitoring well, aerial p	hotos, pr	evious ins	spections),	if available:	
Remarks:								
Cow hoof	nunchos							
Cow hoof	puliciles							

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacram	nento County	Sampling Date: 11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investment	ts	State: CA	Sampling Point: 84
Investigator(s): P. Keating and A. Godinho	Section, Township, F	Range: Township 7N / Ra	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Drainage			
Subregion (LRR): C	Lat: 38.47890103	Long: -121.1808173	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes		NWI classific	
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			present? Yes No
Are Vegetation ✓, Soil, or Hydrology		needed, explain any answe	
SUMMARY OF FINDINGS – Attach site ma			
Hydric Soil Present? Yes <u>✓</u>	No Is the Sample within a Wet		No
NWI classification PEM1A = Freshwater	Emergent Wetland		
VEGETATION – Use scientific names of pl	lants.		
Tree Stratum (Plot size:) 1	Absolute Dominant Indicato <u>% Cover Species? Status</u>		pecies
2		Total Number of Domin Species Across All Stra	
4	= Total Cover	Percent of Dominant Sport That Are OBL, FACW,	
1		Prevalence Index wor	ksheet:
2		Total % Cover of:	Multiply by:
3		OBL species	x 1 =
4			x 2 =
5		<del>-</del>	x 3 =
Herb Stratum (Plot size: 5m x 5m )	= Total Cover	-	x 4 =
1. Festuca perennis		UPL species	
2		_	
3		_	= B/A =
4		Hydrophytic Vegetation	
5		Dominance Test is	
6		Prevalence Index i	s ≤3.0 ptations¹ (Provide supporting
7			s or on a separate sheet)
8	= Total Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
1		Indicators of hydric soi be present, unless dist	il and wetland hydrology must urbed or problematic.
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum95 % Co	over of Biotic Crust0	Vegetation Present? Ye	s No
Remarks:	-		

		to the de	pth needed to docu	ment the ox Feature		or confirm	n the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10 YR 3/1	95	5 YR 4/6	5	С	M/PL	silty clay	
	<u>-</u>		<del>_</del>		-			
				_	-	·		
					-		· <del></del>	
			-					
			_					
			l=Reduced Matrix, C			ed Sand Gr		ation: PL=Pore Lining, M=Matrix.
-		able to al	I LRRs, unless other	rwise not	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,			<del></del>	uck (A9) (LRR C)
	pipedon (A2)		Stripped M		J /E4)			uck (A10) ( <b>LRR B</b> )
	istic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle					d Vertic (F18) rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N	-	(1 2)			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	✓ Redox Dar		(F6)			
	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		(F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,
	Bleyed Matrix (S4)  Layer (if present):						uniess ais	sturbed or problematic.
Type: ha								
Depth (in							Hydric Soil F	Present? Yes √ No
Remarks:	Ciles). <u>3</u>						Hydric 30ii i	resent: res_v No
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one require	ed; check all that app	ly)			Second	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	t (B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Se	ediment Deposits (B2) (Riverine)
Saturati	, ,		Aquatic Ir		` ,		Dri	ift Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b> i		Hydrogen					ainage Patterns (B10)
	nt Deposits (B2) (No				_	_		y-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					ayfish Burrows (C8)
	Soil Cracks (B6) on Visible on Aerial	Imagary (E		k Surface		ed Soils (C6	· —	turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
	stained Leaves (B9)	iiiagery (E		plain in Re				C-Neutral Test (D5)
Field Obser	· /		Other (Ex	Piairiiiii	Jiliaiks)	1		To reduial rest (BS)
Surface Wat		/es	No <u>✓</u> Depth (ir	rches).				
Water Table			No ✓ Depth (ir					
Saturation P			No <u>✓</u> Depth (ir				and Hydrology	Present? Yes No
(includes cap	oillary fringe)						-	1105cm: 103 <u>v</u> 110 <u></u>
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pr	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project		City/County	<sub>r:</sub> Sacramer	nto County	Sampling Date:11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 85
Investigator(s): P. Keating and A. Godinho		Section, To	wnship, Rar	nge: Township 7N / Rai	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Drainage		Local relief	f (concave, c	convex, none): concave	Slope (%):2
Subregion (LRR): C	Lat: 38.4	17898859		Long: -121.1808264	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes				NWI classific	
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology sig					oresent? Yes No
Are Vegetation, Soil, or Hydrology ✓ na				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map s					
			9 00		,portaint routaroo, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No		Is th	e Sampled	Area	
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	_	with	in a Wetlan	d? Yes	No <u>√</u>
Remarks:					
Associated feature: SW-29					
VEGETATION – Use scientific names of plants					
		Dominant	Indicator	Dominance Test work	shoot:
		Species?		Number of Dominant Sp	
1				That Are OBL, FACW, o	
2				Total Number of Domina	ant
3				Species Across All Stra	ta: <u>3</u> (B)
4				Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)		= Total Co	over	That Are OBL, FACW, o	or FAC: <u>33</u> (A/B)
1		-		Prevalence Index worl	ksheet:
2		-		Total % Cover of:	Multiply by:
3					x 1 =0
4					x 2 =0
5				-	x 3 = 105
Herb Stratum (Plot size: 5m x 5m )		= Total Co	over	FACU species 35	x 5 = 175
1. Bromus hordeaceus	30	Υ	FACU	Column Totals:10	
2. Hordeum marinum	20	Y	FAC	Column Fotalo	<u>o</u> (//) <u>100</u> (B)
3. Holocarpha virgata	20	Y	UPL		= B/A =4
4. <u>Trifolium hirtum</u>		<u>N</u>	UPL	Hydrophytic Vegetation	
5. Festuca perennis	15	N	FAC	Dominance Test is	
6				Prevalence Index is	s ≤3.0° ptations¹ (Provide supporting
7					s or on a separate sheet)
8		= Total Co		Problematic Hydror	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	100	= Total CC	ovei		
1					l and wetland hydrology must
2				be present, unless distu	inded of problematic.
		= Total Co	over	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	of Biotic Cr	rust(	)		s No_ <u>√</u>
Remarks:					

	•	to the depth	needed to document the indi	cator or confirm the a	bsence of indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Redox Features  Color (moist) % T	rype <sup>1</sup> Loc <sup>2</sup> Te	xture Remarks
0-2	-		Color (moist) 76 I	silty	
0-2	10 YR 3/2	100		31111	Clay
		- — —			
		<u> </u>			
			educed Matrix, CS=Covered or		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
-		able to all LR	Rs, unless otherwise noted.)		dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) Dipedon (A2)		<ul><li>Sandy Redox (S5)</li><li>Stripped Matrix (S6)</li></ul>	<del>-</del>	_ 1 cm Muck (A9) (LRR C) _ 2 cm Muck (A10) (LRR B)
	stic (A3)		Loamy Mucky Mineral (F		Reduced Vertic (F18)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2		Red Parent Material (TF2)
	d Layers (A5) ( <b>LRR</b> (	C)	Depleted Matrix (F3)	<u> </u>	Other (Explain in Remarks)
	ıck (A9) ( <b>LRR D</b> )		Redox Dark Surface (F6)		
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F		
	ark Surface (A12) Mucky Mineral (S1)		Redox Depressions (F8) Vernal Pools (F9)		dicators of hydrophytic vegetation and wetland hydrology must be present,
	Gleyed Matrix (S4)		vernai Pools (F9)		unless disturbed or problematic.
	Layer (if present):				arriode dictarged of problematic.
Type: ha					
Depth (in	ches): 2		_	Hyd	Iric Soil Present? Yes No _ ✓
Remarks:			<u> </u>	,	
HYDROLO					
Wetland Hy	drology Indicators:				
Primary India	cators (minimum of c	ne required; c	heck all that apply)		Secondary Indicators (2 or more required)
	Water (A1)		Salt Crust (B11)		Water Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)
Saturation	` ,		Aquatic Invertebrates (E	•	Drift Deposits (B3) (Riverine)
	larks (B1) (Nonriver		Hydrogen Sulfide Odor		Drainage Patterns (B10)
	nt Deposits (B2) (No				Dry-Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence of Reduced Ir		Crayfish Burrows (C8)
· ·	Soil Cracks (B6) on Visible on Aerial	magany (B7)	<ul><li>Recent Iron Reduction i</li><li>Thin Muck Surface (C7)</li></ul>		<ul><li>Saturation Visible on Aerial Imagery (C9)</li><li>Shallow Aquitard (D3)</li></ul>
· ·	tained Leaves (B9)	illiagely (br)	Other (Explain in Rema		Shallow Additiate (D3) FAC-Neutral Test (D5)
Field Obser	. ,		Other (Explain in Nema	11(0)	
Surface Wat		'es No	Depth (inches):		
Water Table			✓ Depth (inches):		
Saturation P			✓ Depth (inches):		ydrology Present? Yes No✓
(includes car		62 140	Deptil (illolles)	Wetland II	ydrology i resent: Tes No
		gauge, monit	oring well, aerial photos, previo	ous inspections), if avail	able:
Remarks:					

Project/Site: Sloughhouse Solar Energy Project	C	ity/County	<u>Sacramer</u>	nto County	Sampling Date:	11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	86
Investigator(s): P. Keating and A. Godinho	s	Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 2	11
Landform (hillslope, terrace, etc.): Drainage	L	_ocal relief	(concave, c	convex, none): concave	Slope	e (%):2
Subregion (LRR): C	Lat: 38.4	7897338		Long: -121.1833473	Datum	: WGS84
Soil Map Unit Name: San Joaquin silt loam, 3 - 8% slopes				NWI classific		
Are climatic / hydrologic conditions on the site typical for this t						
Are Vegetation, Soil, or Hydrologysig				Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology nat				eded, explain any answe		
			,		,	4
SUMMARY OF FINDINGS – Attach site map sl	nowing s	sampiin	g point it	ocations, transects	, important lea	tures, etc.
Hydrophytic Vegetation Present? Yes No	✓	Is th	e Sampled	Area		
Hydric Soil Present? Yes No			in a Wetlan		No	
Wetland Hydrology Present? Yes ✓ No						
Remarks:						
Associated feature: SW-30						
VEGETATION – Use scientific names of plants	š.					
	Absolute			Dominance Test work		
Tree Stratum (Plot size:)  1	% Cover			Number of Dominant Sport That Are OBL, FACW, or		<b>(A)</b>
2						(^)
3				Total Number of Domin Species Across All Stra		(B)
4.						(=)
	0 :			Percent of Dominant Sp That Are OBL, FACW, of		(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor		
1				Total % Cover of:		hv:
2				OBL species 0		
4				FACW species 0		
5		_		FAC species 0		
		= Total Co	ver	FACU species 25	x 4 = <u>1</u>	00
Herb Stratum (Plot size: 5m x 5m )	=0	V		UPL species <u>75</u>	x 5 = <u>3</u>	75
1. Elymus caput-medusae		<u>Y</u>	UPL	Column Totals:10	<u>10</u> (A) <u>4</u>	75 (B)
Bromus hordeaceus     Holocarpha virgata	25		<u>FACU</u> UPL	Prevalence Index	= B/A =4.7	5
Holocarpna virgata     4			<u>OFL</u>	Hydrophytic Vegetation		
5				Dominance Test is		
6				Prevalence Index is		
7				Morphological Ada		
8					s or on a separate s	•
	100	= Total Co	ver	Problematic Hydro	onytic vegetation (i	=xpiain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	l and wetland hydro	logy must
1				be present, unless distu		
		= Total Co	ver	Hydrophytic		
Over Occupation Head Observer Over Over Occupant				Vegetation	- N- /	,
% Bare Ground in Herb Stratum 0	BIOTIC CIT	ust	<u></u>	Present? Ye	s No_ <u>√</u>	
Remarks:						

Type: C-Concentration, D-Depletion, RM=Reduced Matrix, CS-Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1)	Depth Matr (inches) Color (moist		Color (moist)	ox Feature:	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  **Location: PL=Pore Lining, M=Matrix, typirs Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators for Problematic Hydric Soils*:  Indicators of Hydrophylic eyeptation and well and Hydric Soil Present? Yes								
Indicators: (Applicable to all LRRs, unless otherwise noted.)   Histosol (A1)	10 11( 3/1		3 TK 4/0			1 L/ 1V1	<u> </u>	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoi (A1) Sandy Redox (S5)								-
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoil (A1)  Sandy Redox (S5)  Histosoil (A1)  Sandy Redox (S5)  Stripped Matrix (S6)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Stratified Layers (A5) (LRR D)  Depleted Matrix (F3)  1 cm Muck (A9) (LRR D)  Depleted Matrix (F3)  1 cm Muck (A9) (LRR D)  Depleted Dark Surface (F6)  Depleted Depleted Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Surface Water (A12)  Surface Water (A12)  Surface Water (A13)  Surface Water (A14)  Surface Water (A14)  Surface Water (A14)  Surface Water (A14)  Salt Crust (B11)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine)  Surface Water (A8) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Water (A8) (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation (X8) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Water Fater (P4)  Water Pater (P5)  Secondary Indicators (2 or more required)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Shallow Aquitard (D3)  Water Table (A2)  Shallow Aquitard (D3)  Selded Observations:  urface Water Present? Yes No Depth (inches):  surface Water Present? Yes No Depth (inch			=				-	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Histosol (A1)  Sandy Redox (S5)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Stritpfied Layers (A5) (LRR C)  Depleted Matrix (F2)  Stratified Layers (A5) (LRR D)  Depleted Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F3)  1 cm Muck (A9) (LRR D)  Pepleted Dark Surface (F6)  Depleted Dark Surface (A11)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Surface Water (F8)  Popelted Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Surface Water (F8)  Popelted Dark Surface (A12)  Surface Water (A11)  Salt Crust (B12)  Setrictive Layer (if present):  Type: hard pan  Depth (inches): 2  emarks:   //DROLOGY  //PROLOGY								
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Histosol (A1)  Sandy Redox (S5)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Stritpfied Layers (A5) (LRR C)  Depleted Matrix (F2)  Stratified Layers (A5) (LRR D)  Depleted Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F3)  1 cm Muck (A9) (LRR D)  Pepleted Dark Surface (F6)  Depleted Dark Surface (A11)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Surface Water (F8)  Popelted Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Surface Water (F8)  Popelted Dark Surface (A12)  Surface Water (A11)  Salt Crust (B12)  Setrictive Layer (if present):  Type: hard pan  Depth (inches): 2  emarks:   //DROLOGY  //PROLOGY								
Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Histosol (A1)								
Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Histosol (A1)								
Indicators: (Applicable to all LRRs, unless otherwise noted.)   Histosol (A1)		<del></del>						
Indicators: (Applicable to all LRRs, unless otherwise noted.)   Histosol (A1)		Dealette DM	De desert Matrix C		0	-1.01.0-	21 -	and a Dispersion of Markets
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S8) 2 cm Muck (A10) (LRR B) Black Histic (A3) 2 cn Muck (A10) (LRR B) Hydrogen Sulfide (A4) 2 cm Work (A10) (LRR B) Hydrogen Sulfide (A4) 2 cm Work (A10) (LRR B) Hydrogen Sulfide (A4) 3 cm Work (A10) (LRR B) Every Extra (A10) (LRR C) 3 cm Work (A10) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Thick Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Werland Hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if present): Type: hard pan Depth (inches): 2 Hydric Soil Present? Yes No Secondary Indicators (2 or more required) Hydric Soil Present? Yes No Secondary Indicators (2 or more required) Hydrogen Sulfide (A2) Situation (A3) Drift Deposits (B3) (Riverine) Saturation (A3) Drift Deposits (B3) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B3) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Shallow Aquitard (D3) Water Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Feditor Deposits Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						d Sand Gi		
Histic Epipedon (A2)		phicable to all			Ju.,			•
Black Histic (A3)	_							
Hydrogen Sulfide (A4)					l (F1)		·	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) _ Other (Explain in Remarks)								
		RR C)			. /			
Thick Dark Surface (A12)					(F6)			
Sandy Mucky Mineral (S1)								
					F8)			
Restrictive Layer (if present): Type: hard pan  Depth (inches): 2    Hydric Soil Present? Yes _ ✓ No _			Vernal Poo	ols (F9)				
Type: hard pan  Depth (inches): 2		•					unless d	isturbed or problematic.
Pepth (inches): 2		it):						
Verland Hydrology Indicators:  Verland Hydrology Indicators:	,,							D 10 V 1
Verland Hydrology Indicators:    Verland Hydrology Indicators (minimum of one required; check all that apply)   Secondary Indicators (2 or more required)	Depth (inches): 2						Hydric Soil	Present? Yes <u>√</u> No
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C2)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Imagery (C         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Water-Stained Leaves (B9)       Other (Explain in Remarks)								
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Water Marks (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Sediment Deposits (B3) (Nonriverine)  Water Marks (B1) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C7)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Sediment Deposits (B3) (Nonriverine)  Water Table Present?  Yes No ✓ Depth (inches):  Sediment Deposits (B3) (Riverine)  Wetland Hydrology Present? Yes ✓ No — Includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) Thin Muck Surface (C7) Shallow Aquitard (D3) Vater-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present?		ore.						
High Water Table (A2)	Vetland Hydrology Indicate		d: check all that app	olu)			Sacon	adany Indicators (2 or more required)
	Vetland Hydrology Indicator Primary Indicators (minimum							
Water Marks (B1) (Nonriverine)	Vetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1)		Salt Crus	st (B11)			W	/ater Marks (B1) (Riverine)
Sediment Deposits (B2) (Nonriverine)	Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Salt Crus	st (B11) ust (B12)	o (B12)		W	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Drift Deposits (B3) (Nonriverine)	Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	of one require	Salt Crus Biotic Cru Aquatic I	st (B11) ust (B12) nvertebrate	, ,		W S D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?	Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr	of one require	Salt Crus Biotic Cru Aquatic II Hydroger	st (B11) ust (B12) nvertebrate n Sulfide Od	dor (C1)	Living Poo	W S D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Stail Constant of the property of the prop	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2)	of one required iverine) (Nonriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized	st (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe	dor (C1) res along	-	W S D D ots (C3) D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (None	of one required iverine) (Nonriverine)	Salt Crus Biotic Cru Aquatic Ii Hydroger _ ✓ Oxidized Presence	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe	dor (C1) res along ed Iron (C4	4)	W S D D ots (C3) D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Field Observations:  Surface Water Present? Yes No _ ✓ _ Depth (inches):  Water Table Present? Yes No _ ✓ Depth (inches):  Saturation Present? Yes No _ ✓ Depth (inches):  Grading Company of the present of the	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (None Surface Soil Cracks (B6)	of one required iverine) (Nonriverine) riverine)	Salt Crus Biotic Cru Aquatic Ii Hydroger ✓ Oxidized Presence Recent Ir	ot (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce	dor (C1) res along ed Iron (C4 on in Tilled	4)	W S D D D C C S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Social processorial	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae	riverine) (Nonriverine) riverine) niverine) riverine)	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir Thin Muc	et (B11)  Just (B12)  Invertebrate  In Sulfide Oo  Rhizosphe  In Seduce  In S	dor (C1) res along d Iron (C4 on in Tilled C7)	4)	W S D D D C C S S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): Wetland Hydrology Present? Yes ✓ _ No includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (E	riverine) (Nonriverine) riverine) niverine) riverine)	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir Thin Muc	et (B11)  Just (B12)  Invertebrate  In Sulfide Oo  Rhizosphe  In Seduce  In Sulfide Oo  Rhizosphe  In Seduce  In Seduce  In Sulfide Oo  Reduction  In Sulfide Oo  Reduction  In Sulfide Oo  Reduction  In Sulfide Oo  In	dor (C1) res along d Iron (C4 on in Tilled C7)	4)	W S D D D C C S S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Saturation Present? Yes No V Depth (inches): Wetland Hydrology Present? Yes V No includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (E	iverine) (Nonriverine) riverine) ) rial Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti ck Surface ( xplain in Re	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D D D C C S S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (E	iverine) (Nonriverine) riverine) ) rial Imagery (B 39) Yes	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti ck Surface ( xplain in Re	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	W S D D D C C S S	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (E Field Observations: Surface Water Present? Water Table Present?	iverine) (Nonriverine) riverine) ) rial Imagery (B 39)  Yes Yes	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti ck Surface ( kplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	H) H Soils (C6	W S D ots (C3) D C S) S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Remarks:	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (E-Field Observations: Surface Water Present? Water Table Present?	iverine) (Nonriverine) riverine) ) rial Imagery (B 39)  Yes Yes	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide Oo Rhizosphe e of Reduce on Reducti ck Surface ( kplain in Re nches):	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	H) H Soils (C6	W S D ots (C3) D C S) S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Remarks:	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (EField Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present?	iverine) (Nonriverine) riverine) ) rial Imagery (B 39)  Yes Yes Yes	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11)  Just (B12)  Invertebrate  In Sulfide Oo  Rhizosphe  In Sof Reduce  In Sof Reduce  In Sulfide Oo  Rhizosphe  In Sulfide Oo  Rhizosphe  In Sulfide Oo  Reducti  In Red	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D ots (C3) D C S) S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
	Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonr  Sediment Deposits (B2)  Drift Deposits (B3) (Nonr  Surface Soil Cracks (B6)  Inundation Visible on Ae  Water-Stained Leaves (EField Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)	iverine) (Nonriverine) riverine) ) rial Imagery (B 39)  Yes Yes Yes	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11)  Just (B12)  Invertebrate  In Sulfide Oo  Rhizosphe  In Sof Reduce  In Sof Reduce  In Sulfide Oo  Rhizosphe  In Sulfide Oo  Rhizosphe  In Sulfide Oo  Reducti  In Red	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D ots (C3) D C S) S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (EField Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (street	iverine) (Nonriverine) riverine) ) rial Imagery (B 39)  Yes Yes Yes	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11)  Just (B12)  Invertebrate  In Sulfide Oo  Rhizosphe  In Sof Reduce  In Sof Reduce  In Sulfide Oo  Rhizosphe  In Sulfide Oo  Rhizosphe  In Sulfide Oo  Reducti  In Red	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D ots (C3) D C S) S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
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	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonr Sediment Deposits (B2) Drift Deposits (B3) (Nonr Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (EField Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streen	iverine) (Nonriverine) riverine) ) rial Imagery (B 39)  Yes Yes Yes	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ii No ✓ Depth (ii	ot (B11)  Just (B12)  Invertebrate  In Sulfide Oo  Rhizosphe  In Sof Reduce  In Sof Reduce  In Sulfide Oo  Rhizosphe  In Sulfide Oo  Rhizosphe  In Sulfide Oo  Reducti  In Red	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (C6	W S D ots (C3) D C S) S F	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/Co	ounty: Sac	ramento County	_ Sampling Date: _	11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	_ Sampling Point: _	88
Investigator(s): P. Keating and A. Godinho	Section	n, Townsh	ip, Range: Township 7N / Ra	ange 7E / Section	03
Landform (hillslope, terrace, etc.): Hillslope	Local	relief (con	cave, convex, none): concave	Slop	oe (%):2
Subregion (LRR): C Lat:	38.48444	491	Long: -121.1886068	Datur	n: WGS84
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slope	es		NWI classifi	cation: PUBFx-Fre	shwater Pond
Are climatic / hydrologic conditions on the site typical for this time o					
Are Vegetation ✓, Soil ✓, or Hydrology significal					' No
Are Vegetation, Soil, or Hydrology naturally			(If needed, explain any answ		
SUMMARY OF FINDINGS – Attach site map show					atures, etc.
			,	<u> </u>	<u> </u>
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓			mpled Area	_	
Wetland Hydrology Present? Yes ✓ No		within a \	Wetland? Yes	No <u>√</u>	
Remarks:					
Associated feature: n/a. Point taken within matr	rix of cat	ttle trai	ls, heavily disturbed. L	ow topographi	ic
depression within west facing slope.			•		
VEGETATION – Use scientific names of plants.					
	ute Domi	nant India	cator Dominance Test wor	kshoot:	
	ver Spec				
1					(A)
2			Total Number of Domi	nant	
3			Species Across All Str	ata: <u>4</u>	(B)
4			Percent of Dominant S		
Sapling/Shrub Stratum (Plot size:)	) = Tota	ai Cover	That Are OBL, FACW,	or FAC: <u>25</u>	(A/B)
1			Prevalence Index wo	rksheet:	
2			Total % Cover of:		
3				x 1 =	
4					45
5			FAC species 15  FACU species 15		60
Herb Stratum (Plot size: 5m x 5m )	) = Tota	ai Cover	UPL species 30		150
1. Festuca perennis 15	5 Y	F			255 (B)
2. Elymus caput-medusae 15	5 Y	<u>U</u>	PL		,
	<u> </u>	<u> </u>		x = B/A = 4.2	<u>25                                    </u>
4. Bromus hordeaceus 15			CU Hydrophytic Vegetat		
5			Dominance Test is Prevalence Index		
6				aptations¹ (Provide s	sunnorting
7				ks or on a separate	
8	0 = Tota	al Cover	Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)		00101			
1			Indicators of hydric so be present, unless dis		
2					
	= Tota		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 40 % Cover of Biot	ic Crust	0	_ Present? Yo	es No_ <u>_</u>	<u>✓</u>
Remarks:					
Heavily grazed, unable to identify thatch					

SOIL								Sampling Point:	88
Profile Desc	ription: (Describe t	o the dep	oth needed to docun	nent the inc	dicator	or confirn	n the absence	of indicators.)	
Depth	Matrix		Redox	x Features					
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	

						LUC	Textu		
0-2	10 YR 3/2	99	5 YR 4/6	_ 1	<u>C</u>	M	silty cla	ay	
		_	_	_	-		_		
			-	_	_			<del></del>	
		_	-	_			_		
						-			
				_					
¹Type: C=Co	oncentration D=De	nletion RN	M=Reduced Matrix, C	S=Covere	d or Coat	ed Sand (	Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
			II LRRs, unless othe			ou ound t		ators for Problematic Hydric Soils <sup>3</sup> :	
Histosol			Sandy Red		,			cm Muck (A9) ( <b>LRR C</b> )	
	pipedon (A2)		Stripped M					2 cm Muck (A10) ( <b>LRR B</b> )	
Black Hi			Loamy Mu	` ,	al (F1)			Reduced Vertic (F18)	
	en Sulfide (A4)		Loamy Gle					Red Parent Material (TF2)	
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N					Other (Explain in Remarks)	
	uck (A9) ( <b>LRR D</b> )	•	Redox Dar				_ `	2. (2. p.a temano)	
	d Below Dark Surfac	ce (A11)	Depleted D		. ,				
	ark Surface (A12)	` ,	Redox Dep				<sup>3</sup> Indic	ators of hydrophytic vegetation and	
	Mucky Mineral (S1)		Vernal Poo		,			tland hydrology must be present,	
	Bleyed Matrix (S4)							less disturbed or problematic.	
Restrictive I	Layer (if present):							·	
Type: ha	rd pan								
Depth (in							Hydrid	Soil Present? Yes No ✓	
	onco). <u>-</u>						Tiyani	7 CONT TOSCINE. 103 110	
Remarks:									
LIVEROLO	CV								
HYDROLO									
	GY drology Indicators	:							
Wetland Hy	drology Indicators		ed; check all that app	oly)				Secondary Indicators (2 or more required)	
Wetland Hyd	drology Indicators		ed; check all that app Salt Crus	**				Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)	
Wetland Hyder Primary Indicate Surface	drology Indicators cators (minimum of Water (A1)		••	t (B11)				Water Marks (B1) (Riverine)	
Wetland Hyd Primary India Surface High Wa	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Crus	t (B11) ust (B12)	es (B13)			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)	
Wetland Hyd Primary India Surface High Wa Saturatio	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)	one requir	Salt Crus Biotic Cru Aquatic Ir	t (B11) ust (B12) nvertebrate	. ,			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)	
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Wetland Hyden Primary India  Surface High Water Mater Mater Mater Drift Dep  ✓ Surface Inundation Water-S  Field Obsert Surface Water Table Saturation P (includes capetal material part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table Saturation P (includes capetal part of the surface water Table P (includes capetal part of the surface water Table P (includes capetal part of the surface water Table P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part of the surface water P (includes capetal part	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: er Present? Present? resent?	rine) ponriverine erine) Imagery (I Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct k Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (C	oots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)	
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Wetland Hyderimary India  Surface High Water Management Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Water Table Saturation Page (includes cape Describe Research)	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: er Present? Present? resent? corded Data (strean	rine) ponriverine erine) Imagery (I Yes Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent In B7) Thin Muc Other (Ex No V Depth (ir No V Depth (ir No V Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct k Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (C	oots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)	
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Wetland Hyderimary India  Surface High Water Management Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Water Table Saturation Page (includes cape Describe Research)	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) vations: er Present? Present? resent? corded Data (strean	rine) ponriverine erine) Imagery (I Yes Yes Yes	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent In B7) Thin Muc Other (Ex No V Depth (ir No V Depth (ir No V Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct k Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (C	oots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)	
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Project/Site: Sloughhouse Solar Energy Project	(	City/Count	<sub>ty:</sub> <u>Sacrame</u>	nto County	Sampling Date:11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 89
Investigator(s): P. Keating and A. Godinho	:	Section, T	ownship, Rai	<sub>nge:</sub> Township 7N / Ra	nge 7E / Section 11
					Slope (%):2
Subregion (LRR):	Lat: 38.4	17555115	5	Long: -121.1825123	Datum: WGS84
Soil Map Unit Name: Galt clay, 2 - 5% slopes				NWI classific	
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology si					present? Yes No
Are Vegetation, Soil, or Hydrology na				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map s				•	,
		<u> </u>		· · · · · · · · · · · · · · · · · · ·	· ·
Hydrophytic Vegetation Present? Yes _ ✓ No Hydric Soil Present? Yes _ ✓ No Mo		ls t	the Sampled		_
Wetland Hydrology Present? Yes   ✓ No.		wit	thin a Wetlan	nd? Yes <u>√</u>	No
Remarks:	·				
Associated feautre: SW-32. topographic rel	ief withi	in west	facing slo	pe that appears to	sheet flow. Indistinct
wetland boundaries			J		
VECETATION . Her existific names of plant					
VEGETATION – Use scientific names of plant				· · · · · ·	
Tree Stratum (Plot size:)			nt Indicator  Status	Dominance Test work	
1				Number of Dominant S That Are OBL, FACW,	or FAC:1 (A)
2				Total Number of Domin	nant
3				Species Across All Stra	
4				Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size:)	0	= Total C	Cover		or FAC: 100 (A/B)
1				Prevalence Index wor	ksheet:
2.				Total % Cover of:	Multiply by:
3.				OBL species	x 1 =
4				FACW species	x 2 =
5				FAC species	x 3 =
Harb Christian (Diet siese Em V Em )	0	= Total C	Cover		x 4 =
Herb Stratum (Plot size: 5m x 5m )  1. Alopecurus saccatus	10	N	OBL		x 5 =
Hordeum marinum		Y	FAC	Column Totals:	(A) (B)
3. Festuca perennis	10	 N	FAC	Prevalence Index	x = B/A =
4. Eryngium castrense	2.5	N	OBL	Hydrophytic Vegetation	on Indicators:
5. Hypochaeris radicata	2.5	N	UPL	✓ Dominance Test is	
6. Holocarpha virgata	10	N	UPL	Prevalence Index i	
7. Gastridium phleoides	2.5	N	UPL		ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8. Bromus hordeaceus	2.5	N	FACU		phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	60	= Total C	cover	1 100101114410 119410	priyate v egetation (Explain)
1				<sup>1</sup> Indicators of hydric soi	il and wetland hydrology must
2				be present, unless distr	urbed or problematic.
	0		over	Hydrophytic	
% Bare Ground in Herb Stratum 40 % Cover	of Biotic Cr	ruet	0	Vegetation Present? Ye	es No
Remarks:			-		
	~ ~£±1	مام			
Difficult to determine covers due to grazing	g or that	Cn.			
1					

	cription: (Describe	to the depth n				or confirm	n the abse	ence of indicators	5.)
Depth (inches)	Matrix Color (moist)	%	Redo	ox Feature %	s Type <sup>1</sup>	Loc <sup>2</sup>	Textur	re	Remarks
									remans
0-2	10 YR 4/1	·					<u>C</u>		
		<del></del>		_			-		
								<u> </u>	
				-			-		_
	-	<del></del>						<del></del> -	
		<del></del>							
								<u> </u>	
¹Type: C=C	concentration, D=Dep	letion RM=Re	duced Matrix C	S=Covered	d or Coate	d Sand Gr	rains	<sup>2</sup> Location: PL=Pc	ore Lining, M=Matrix.
	Indicators: (Applic					a bana bi			atic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		· · · · · ·			cm Muck (A9) (LR	
	pipedon (A2)		Stripped M					cm Muck (A10) (LI	
	istic (A3)		Loamy Mu	, ,	l (F1)			educed Vertic (F18	
	en Sulfide (A4)		Loamy Gle					ed Parent Material	,
	d Layers (A5) ( <b>LRR</b> (	<b>C</b> )	✓ Depleted M		()			ther (Explain in Re	•
	uck (A9) ( <b>LRR D</b> )	,	Redox Dar		(F6)			` '	,
	d Below Dark Surfac	e (A11)	Depleted D	ark Surfac	e (F7)				
Thick Da	ark Surface (A12)		Redox Dep	ressions (	F8)		<sup>3</sup> Indica	ators of hydrophytic	c vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)			wetl	land hydrology mu	st be present,
	Gleyed Matrix (S4)						unle	ess disturbed or pro	oblematic.
	Layer (if present):								
Type: ha	ard pan		=						
Depth (in	iches): 2		_				Hydric	Soil Present?	Yes <u>√</u> No
Remarks:									
HYDROLO	)GV								
	drology Indicators:								
_			and all that ann	1)				Sa aan dan Hadiaata	ro (O or more required)
	cators (minimum of c	<u>ine requirea; cr</u>		• •				-	rs (2 or more required)
Surface	` ,		Salt Crust	` '				Water Marks (E	
	ater Table (A2)		Biotic Cru						osits (B2) (Riverine)
Saturati			Aquatic Ir					Drift Deposits (	
	Marks (B1) (Nonriver		Hydrogen					Drainage Patte	
	nt Deposits (B2) (No				_	-		Dry-Season Wa	
	posits (B3) (Nonrive	rine)	Presence					Crayfish Burrow	
✓ Surface	Soil Cracks (B6)		Recent Iro	on Reducti	on in Tille	d Soils (C6			ole on Aerial Imagery (C9)
Inundati	ion Visible on Aerial I	magery (B7)	Thin Mucl	k Surface (	(C7)			Shallow Aquita	
Water-S	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)		_	FAC-Neutral Te	est (D5)
Field Obser	rvations:								
Surface Wat	ter Present? Y	es No _	✓ Depth (ir	iches):		_			
Water Table	Present? Y	es No _	✓ Depth (ir	iches):		_			
Saturation P			✓ Depth (ir				and Hydro	ology Present?	Yes <u>√</u> No
(includes ca	pillary fringe)								
Describe Re	ecorded Data (stream	gauge, monito	ring well, aerial	photos, pr	evious ins	pections),	if available	e:	
Remarks:									
Cattle be	of punches. Sui	rface soil or	acks contin	110 on h	illelono	c			
Cattle 110	or puricites, sui	iace son Cl	acks CUIIIIII	ue UII II	msiope	٥.			

Project/Site: Sloughhouse Solar Energy Project	City/Co	ounty: S	acramer	to County	Sa	mpling Date: _	11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA Sa	mpling Point:	91
Investigator(s): P. Keating and A. Godinho	Sectio	n, Town	ship, Ran	ge: Township 7	'N / Range	2 7E / Section	11
Landform (hillslope, terrace, etc.): Hillslope	Local	relief (co	oncave, c	onvex, none): N	one	Slo	pe (%):2
Subregion (LRR): Lat:	38.47286	6657		Long: -121.186	55352	Datu	m: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slop							
Are climatic / hydrologic conditions on the site typical for this time							
Are Vegetation, Soil, or Hydrology signification				Normal Circumsta			<b>/</b> No
Are Vegetation, Soil, or Hydrology naturall				eded, explain any			
SUMMARY OF FINDINGS – Attach site map show							atures. etc.
	. 1						
Hydrophytic Vegetation Present? Yes No✓ Hydric Soil Present? Yes✓ No			Sampled			,	
Wetland Hydrology Present? Yes   ✓ No		within	a Wetlan	d? Ye	es	No <u>√</u>	-
Remarks:							
Associated feature: SW-34							
VECETATION Line opiontific names of plants							
VEGETATION – Use scientific names of plants.	luta Dam	inant In	diantar	Dominance Te	04 vv e vlce b e		
	olute Dom Over Spec	inant In cies? S		Number of Dom			
1				That Are OBL, I			(A)
2				Total Number o	f Dominant		
3				Species Across			(B)
4				Percent of Dom	inant Speci	es	
Sapling/Shrub Stratum (Plot size:)	<u>0</u> = Tot	al Cove	r	That Are OBL, I	FACW, or F	AC: 3	(A/B)
1			-	Prevalence Ind	ex worksh	eet:	
2.				Total % Co	ver of:	Multipl	y by:
3				OBL species	0	x 1 =	0
4				FACW species			
5						x 3 =	
Herb Stratum (Plot size: 1m x 1m )	<u>0</u> = Tot	al Cove	r	FACU species			
	0 \	1	FACU	UPL species			400 (B)
			FAC	Column Totals:	100	(A)	400 (B)
-	5	Y	UPL	Prevalenc	e Index = E	B/A =	4
4				Hydrophytic V	_		
5				Dominance			
6				Prevalence			
7				Morphologi data in F	cal Adaptat Remarks or	ions <sup>1</sup> (Provide on a separate	supporting sheet)
8				Problematic		•	,
Woody Vine Stratum (Plot size:)	<u>00                                   </u>	al Covei	r				
1				<sup>1</sup> Indicators of hy			
2				be present, unle	ess disturbe	d or problema	tic.
	<u> </u>		r	Hydrophytic			
% Bare Ground in Herb Stratum 0	tic Crust	0		Vegetation Present?	Yes _	No	✓
Remarks:							

		to the dep	oth needed to docu			or confirr	n the absence of	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10 YR 3/1	97	5 YR 4/4	3	С	PL	CL	
						. <u></u>		
			l=Reduced Matrix, C			ed Sand G		tion: PL=Pore Lining, M=Matrix.
_		able to al	I LRRs, unless other		ted.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red					uck (A9) (LRR C)
	pipedon (A2)		Stripped M		SL /E4\			uck (A10) (LRR B)
	istic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle					d Vertic (F18) rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N					Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	✓ Redox Dar					7
Deplete	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,
	Bleyed Matrix (S4)  Layer (if present):						uniess ais	turbed or problematic.
Type: ha								
Depth (in							Hydric Soil F	Present? Yes √ No
Remarks:	CHE3). <u>3</u>		<u> </u>				Tiyunc 30ii i	resent: res_v NO
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one require	ed; check all that app	oly)			Second	lary Indicators (2 or more required)
	Water (A1)		Salt Crus	, ,			<del></del>	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)				diment Deposits (B2) (Riverine)
Saturati	, ,		Aquatic Ir				<del></del>	ft Deposits (B3) (Riverine)
	larks (B1) (Nonriver		Hydroger					ainage Patterns (B10)
	nt Deposits (B2) (No				•	•		y-Season Water Table (C2)
	posits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	erine)	Presence			4) ed Soils (C		ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (F		k Surface		u Solis (Ci		allow Aquitard (D3)
	stained Leaves (B9)	iiilagery (E	· —	plain in Re				C-Neutral Test (D5)
Field Obser	( )							
Surface Wat		′es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				land Hydrology	Present? Yes No
(includes cap	oillary fringe)							
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	: Sacramei	nto County	Sampling Date:11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 92
Investigator(s): P. Keating and A. Godinho		Section, To	wnship, Rar	<sub>nge:</sub> Township 7N / Raı	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Drainage		Local relief	(concave, o	convex, none): concave	Slope (%):2
Subregion (LRR): C	Lat: 38.4	7875207		Long: -121.1831794	Datum: WGS84
Soil Map Unit Name: Galt clay, 0 - 2% slopes				NWI classification	
Are climatic / hydrologic conditions on the site typical for this	time of yea				
Are Vegetation, Soil, or Hydrology sig					resent? Yes No
Are Vegetation, Soil, or Hydrology na				eeded, explain any answer	
SUMMARY OF FINDINGS – Attach site map s					
		<u> </u>		<u> </u>	<u> </u>
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes ✓ No			e Sampled		
Wetland Hydrology Present? Yes <u>√</u> No		with	in a Wetlan	ıd? Yes <u>√</u>	No
Remarks:					
Associated feature: SW-30					
VEGETATION – Use scientific names of plants	•				
		Dominant	Indicator	Dominance Test works	shoot:
		Species?		Number of Dominant Sp	
1				That Are OBL, FACW, o	
2				Total Number of Domina	ant
3				Species Across All Strat	ta: <u>4</u> (B)
4				Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, o	or FAC:100 (A/B)
1				Prevalence Index work	ksheet:
2				Total % Cover of:	Multiply by:
3					x 1 =
4					x 2 =
5	_			· · · · · · · · · · · · · · · · · · ·	x 3 =
Herb Stratum (Plot size: 5m x 5m )	0	= Total Co	ver	*	x 4 = x 5 =
1. Festuca perennis	1	Υ	FAC		(A) (B)
2. Hordeum marinum	1	Υ	<u>FAC</u>	Column Fotals.	(//) (5)
3. Lythrum hyssopifolia	1	Y	OBL		= B/A =
4. Polygonum aviculare		Y	FACW	Hydrophytic Vegetatio	
5. Psilocarphus sp.		<u>N</u>	OBL	✓ Dominance Test is	
6. Eryngium castrense			OBL_	Prevalence Index is	s ≤3.0° otations¹ (Provide supporting
7					s or on a separate sheet)
8		= Total Co		Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		= 10(a) 00	vei		
1					l and wetland hydrology must
2				be present, unless distu	nibed of problematic.
	0	= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum95	of Biotic Cr	ustC	)		s No
Remarks:					

		to the dep	oth needed to docu			or confirm	the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/1	97	5 YR 4/6	3	С	PL/M	silty clay	
	<u>-</u>		<u>-</u>		-	. <del></del> _		
					-			
					·			_
				_				
		_						
		_			·			
			=Reduced Matrix, C			ed Sand Gr		tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	erwise not	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Rec	. ,				uck (A9) (LRR C)
	pipedon (A2)		Stripped M		1 (54)			uck (A10) (LRR B)
	istic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle					d Vertic (F18) rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N		(1-2)			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	-,	✓ Redox Dar		(F6)		00. (2	
	d Below Dark Surfac	e (A11)	Depleted D	ark Surfac	ce (F7)			
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,
	Bleyed Matrix (S4)  Layer (if present):						unless dis	turbed or problematic.
Type: ha								
Depth (in							Hydric Soil E	Present? Yes √ No
Remarks:	CHES). <u>Z</u>						Hydric 30ii F	resent: res_v NO
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one require	d; check all that app	ly)			Second	dary Indicators (2 or more required)
	Water (A1)		Salt Crus	` ,			· · · · · · · · · · · · · · · · · · ·	ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru					diment Deposits (B2) (Riverine)
Saturati	, ,		Aquatic Ir		, ,		<u> </u>	ft Deposits (B3) (Riverine)
	larks (B1) (Nonrive		Hydrogen			5	· · · · · · · · · · · · · · · · · · ·	ainage Patterns (B10)
	nt Deposits (B2) (No				_	•	· · · — ·	y-Season Water Table (C2)
	posits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	erine)	Presence		•	4) ed Soils (C6		ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (F		k Surface		a sons (cc		allow Aquitard (D3)
	stained Leaves (B9)	iiiagery (E	· —	plain in Re			· · · · · · · · · · · · · · · · · · ·	C-Neutral Test (D5)
Field Obser	· /							
Surface Wat	er Present?	′es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				and Hydrology	Present? Yes No
(includes cap	oillary fringe)							
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	(	Citv/County:	Sacramei	nto County	Sampling Date:	11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA		
Investigator(s): P. Keating and A. Godinho				<u> </u>		
Landform (hillslope, terrace, etc.): Drainage						
Subregion (LRR): C						
				NWI classific		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology significant s			Are "	Normal Circumstances" p	present? Yes	No
Are Vegetation, Soil, or Hydrology na	turally prob	olematic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point lo	ocations, transects	s, important fea	atures, etc.
Hydrophytic Vegetation Present? Yes ✓ No						
Hydrophytic Vegetation Present? Yes   Hydric Soil Present? Yes   No  No			e Sampled		,	
Wetland Hydrology Present? Yes   ✓ No		with	in a Wetlan	id? Yes <u>√</u>	No	
Remarks:						
Associated feature: SW-31. Feature drains i	nto "fre	shwater	emerge	nt wetland" (Basir	ı- 01)	
			Ü	,	,	
VEGETATION – Use scientific names of plants						
		Dominant Species?		Dominance Test work		
1				Number of Dominant S That Are OBL, FACW,		(A)
2				Total Number of Domir Species Across All Stra		(B)
4.						(=)
		= Total Co	ver	Percent of Dominant S That Are OBL, FACW,		(A/R)
Sapling/Shrub Stratum (Plot size:)						(7(0)
1				Prevalence Index wor		
2					Multiply	
3				OBL species		
4				FACW species		
5				FACIL anguing		
Herb Stratum (Plot size: 5m x 5m )		= Total Co	ver	FACU species UPL species	x 4 = x 5 =	
1. Polygonum aviculare	30	Υ	FAC	Column Totals:		
2. Elymus caput-medusae	10	Υ	UPL	Column Totals.	(^)	(D)
3. Holocarpha virgata	5	N	UPL	Prevalence Index	c = B/A =	
4. Phyla nodiflora	5	N	FACW	Hydrophytic Vegetation	on Indicators:	
5. Bromus hordeaceus	2.5	N	FACU	Dominance Test is		
6. Festuca perennis	2.5	N	FAC	Prevalence Index i		
7. Hordeum marinum	2.5	N	FAC	Morphological Ada	ptations <sup>1</sup> (Provide s	supporting
8. Polypogon monspeliensis	2.5	N	FACW	Problematic Hydro	s or on a separate s	,
Was da Visa Otratura (Plataisa	60	= Total Co	ver	1 Toblematic Hydro	priytic vegetation	(Explair)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric so	il and wetland hydro	ology must
1				be present, unless dist		
2		= Total Co	vor	Hydrophytic		
40		_		Vegetation		,
% Bare Ground in Herb Stratum 40 % Cover	ot Biotic Cr	ust	<u>'</u>	Present? Ye	es No	<u>′</u>
Remarks:						
Change in vegetation species composition by	etween	ID-02, S	SW-30, a	nd UPL. Late seaso	on upland veg	etation
has moved into site. Inundation visible on a	erial im	agery.				

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		to the dep	oth needed to docu			or confirm	n the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/1	95	5 YR 4/6	5	С	PL/M	silty clay	
	<del> </del>		<u>-</u>		_			
				_	-			
				_				
					-			
					-			
			=Reduced Matrix, C			ed Sand Gr		ation: PL=Pore Lining, M=Matrix.
-		able to all	LRRs, unless other		ted.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,				uck (A9) (LRR C)
	pipedon (A2) istic (A3)		Stripped M Loamy Mu		al (F1)			uck (A10) ( <b>LRR B</b> ) d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N					Explain in Remarks)
1 cm Mu	uck (A9) ( <b>LRR D</b> )		Redox Dar	k Surface	(F6)			
	d Below Dark Surfac	e (A11)	Depleted D				3	
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	ois (F9)				ydrology must be present, sturbed or problematic.
	Layer (if present):						dilicas dia	italibed of problematic.
Type: ha								
Depth (in							Hydric Soil F	Present? Yes No
Remarks:							,	
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one require	d; check all that app	ly)			Second	dary Indicators (2 or more required)
	Water (A1)		Salt Crus	` ,				ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru					diment Deposits (B2) (Riverine)
Saturati	, ,		Aquatic Ir		, ,		· <del></del>	ft Deposits (B3) (Riverine)
	Marks (B1) (Nonrive		Hydrogen			5	· ——	ainage Patterns (B10)
	nt Deposits (B2) (No				-	_		y-Season Water Table (C2)
	posits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	erine)	Presence			4) d Soils (C6		ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (F				a sons (cc		allow Aguitard (D3)
	Stained Leaves (B9)	magery (E	· —	plain in Re	. ,		<del></del>	C-Neutral Test (D5)
Field Obser	( )			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Surface Wat	er Present?	'es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				and Hydrology	Present? Yes No
(includes cap	pillary fringe)						-	
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>r:</sub> Sacramer	nto County	Sampling Date:	11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	94
Investigator(s): P. Keating and A. Godinho	;	Section, To	wnship, Rar	nge: Township 7N / Rai	nge 7E / Section	10
Landform (hillslope, terrace, etc.): Drainage		Local relief	f (concave, c	convex, none): concave	Slope	e (%): 2
Subregion (LRR): C	Lat: 38.4	7506907		Long: -121.1874411	Datum	1: WGS84
Soil Map Unit Name: Galt clay, 0 - 2% slopes				NWI classific		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology na				eded, explain any answei		
SUMMARY OF FINDINGS – Attach site map s						
SUMMART OF FINDINGS - Attach site map s	nowing	Sampiin	g point it	Juations, transects	, important lea	itures, etc.
Hydrophytic Vegetation Present? Yes No		Is th	ne Sampled	Area		
Hydric Soil Present? Yes <u>✓</u> No			nin a Wetlan		No ✓	
Wetland Hydrology Present? Yes <u>✓</u> No						
Remarks:						
Associated feature: SW-31						
VEGETATION – Use scientific names of plants	s.					
	Absolute			Dominance Test work		
1			Status	Number of Dominant Sp That Are OBL, FACW, of		(Δ)
2						(^)
3				Total Number of Domina Species Across All Stra		(B)
4.						(=)
	0			Percent of Dominant Sp That Are OBL, FACW, of		(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worl		
1				Total % Cover of:		by:
2				OBL species 0		
4				FACW species 0		
5				FAC species 35		
		= Total Co	ver	FACU species 25	x 4 = <u> </u>	.00
Herb Stratum (Plot size: 5m x 5m )	4.0			UPL species 10		50
1. Holocarpha virgata		N	UPL	Column Totals: 75	<u>5</u> (A) <u>2</u>	.55 (B)
Bromus hordeaceus     Festuca perennis	25	Y Y	FACU FAC	Prevalence Index	= B/A =3.4	4
Festuca perennis     Hordeum marinum		-	FAC	Hydrophytic Vegetation	<u> </u>	<u></u>
5				Dominance Test is		
6				Prevalence Index is		
7				Morphological Adap	ptations <sup>1</sup> (Provide s	
8					s or on a separate s	,
		= Total Co	ver	Problematic Hydrop	phytic Vegetation (	Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil	l and watland bydra	logy must
1				be present, unless distu		
2		= Total Co		Hydrophytic		
N. D				Vegetation		/
	of Biotic Cr	ust		Present? Yes	s No_ <u>√</u>	
Remarks:						

		to the dep	oth needed to docu			or confirm	the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/1	95	5 YR 4/6	5	С	PL/M	silty clay	
	<u>-</u>		<u>-</u>		_			
				_	-			
			-	_				
					-			
					-			
			=Reduced Matrix, C			ed Sand Gr		ation: PL=Pore Lining, M=Matrix.
-		able to all	LRRs, unless other		ted.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,				uck (A9) (LRR C)
	oipedon (A2) istic (A3)		Stripped M Loamy Mu		al (F1)			uck (A10) ( <b>LRR B</b> ) d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N					Explain in Remarks)
1 cm Mu	uck (A9) ( <b>LRR D</b> )		✓ Redox Dar					
	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1) Bleyed Matrix (S4)		Vernal Poo	ols (F9)				ydrology must be present, sturbed or problematic.
	Layer (if present):						uniess dis	sturbed of problematic.
Type: ha								
Depth (in							Hydric Soil F	Present? Yes No
Remarks:							1.,	
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one require	d; check all that app	ly)			Second	dary Indicators (2 or more required)
	Water (A1)		Salt Crus	` ,			· · · · · · · · · · · · · · · · · · ·	ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru					diment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic Ir		, ,		· · · · · · · · · · · · · · · · · · ·	ft Deposits (B3) (Riverine)
	larks (B1) (Nonrive		Hydrogen			5	· <del></del>	ainage Patterns (B10)
	nt Deposits (B2) (No				-	-		y-Season Water Table (C2)
	posits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	rine)	Presence		•	4) d Soils (C6		ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	lmagery (B				u Solis (CC	· —	allow Aquitard (D3)
	stained Leaves (B9)	iiiageiy (L	, <u>—</u>	plain in Re			· <del></del>	C-Neutral Test (D5)
Field Obser	· /		01101 (2.0	piani in re	ornanto)		<u></u> ···	100110111111111111111111111111111111111
Surface Wat		'es	No ✓ Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				and Hydrology	Present? Yes No
(includes car	oillary fringe)						-	11050H: 103 <u>v</u> 110 <u></u>
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:							<u> </u>	<del></del>

Project/Site: Sloughhouse Solar Energy Project	Ci	ty/County:	Sacrame	nto County	Sa	ampling Date: _	11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State:C	CA Sa	mpling Point:	95
Investigator(s): P. Keating and A. Godinho							
Landform (hillslope, terrace, etc.): Hillslope	Lo	ocal relief (	concave, c	convex, none): con	ivex	Slo	pe (%):2
Subregion (LRR): C	Lat: 38.48	18566		Long: -121.1952	2326	Datu	m: WGS84
Soil Map Unit Name: Reiff fine sandy loam, 0 - 2% slop				-			
Are climatic / hydrologic conditions on the site typical for this	s time of year	? Yes•	No	(If no, expla	in in Rem	arks.)	
Are Vegetation, Soil, or Hydrologys	ignificantly dis	sturbed?	Are "	Normal Circumstar	nces" pres	ent? Yes	No
Are Vegetation, Soil, or Hydrology/n	aturally proble	ematic?	(If ne	eded, explain any	answers ii	n Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing s	ampling	point lo	ocations, trans	sects, ir	nportant fe	atures, etc.
Hadarahatia Vanatatian Baranati	/						
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes ✓ N			Sampled			,	
Wetland Hydrology Present? Yes <u>√</u> N		withir	n a Wetlan	d? Yes	·	. No <u>√</u>	_
Remarks:	<u> </u>						
Associated feature: n/a							
Point taken within western facing slope above ID-02. NWI classification PEM1C = Freshwater Emergent Wetland							
VEGETATION Has a single of the same of the	4 -						
VEGETATION – Use scientific names of plan		Dominant	Indiantar	Dominance Tes	4aulcah		
Tree Stratum (Plot size:)	Absolute I			Number of Domir			
1				That Are OBL, F			(A)
2				Total Number of	Dominant		
3				Species Across A		3	(B)
4	<del></del>			Percent of Domir	nant Snec	ios	
Cooling/Chrush Ctratum /Dict aire.	=	: Total Cov	er	That Are OBL, F			(A/B)
Sapling/Shrub Stratum (Plot size:)  1)				Prevalence Inde	y worksh	neet:	
2				Total % Cov			v bv:
3				OBL species			
4.				FACW species			
5.				FAC species			
		: Total Cov	er	FACU species	50	x 4 =	200
Herb Stratum (Plot size: 5m x 5m		.,		UPL species	25	x 5 =	125
1. Festuca perennis		<u>Y</u>	FAC	Column Totals:	100	(A)	400 (B)
2. Bromus hordeaceus			FACU	Provolonco	Indox -	B/A =9	6,
3. <u>Holocarpha virgata</u>			UPL	Hydrophytic Ve			.0
4				Dominance	_		
5				Prevalence I			
6						tions <sup>1</sup> (Provide	supporting
8				data in Re	emarks or	on a separate	sheet)
5.		: Total Cov	er	Problematic	Hydrophy	tic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)							
1	<del></del>			<sup>1</sup> Indicators of hyd be present, unles			
2				•	oo diotaibe	od or problema	
		Total Cov	er	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum25	of Biotic Cru	st0		Present?	Yes _	No	✓
Remarks:							
No change in vegetation throughout slope							

SOIL	Sampling Point:	95
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of ind	dicators.)	

Depth <u>Matrix</u>				x Feature	s							
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks				
0-2	10 YR 3/2	95	5 YR 4/6	5	С	PL	silty clay					
		_	•		-		-					
		_						_ <del></del>				
								<u> </u>				
		-										
		_										
			· -									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators for Problematic Hydric Soils <sup>3</sup> :												
Hydric Soil	Indicators: (Applic	able to al	I LRRs, unless other	wise not	ed.)		Indicato	rs for Problematic Hydric Soils <sup>3</sup> :				
Histosol (A1) Sandy Redox (S5)							n Muck (A9) (LRR C)					
Histic Epipedon (A2) Stripped Matrix (S6 Black Histic (A3) Loamy Mucky Mine								2 cm Muck (A10) ( <b>LRR B</b> ) Reduced Vertic (F18)				
	en Sulfide (A4)		Loamy Gley					Reduced Vertic (F18) Red Parent Material (TF2)				
	d Layers (A5) ( <b>LRR</b>	C)	Depleted Ma		(1 2)			Other (Explain in Remarks)				
	uck (A9) ( <b>LRR D</b> )	- /	Redox Dark	. ,	(F6)		_	- ( )				
	d Below Dark Surfac	e (A11)										
	ark Surface (A12)		Redox Depr		(F8)			<sup>3</sup> Indicators of hydrophytic vegetation and				
-	Mucky Mineral (S1)		Vernal Pool	s (F9)				wetland hydrology must be present, unless disturbed or problematic.				
	Bleyed Matrix (S4)  Layer (if present):						unies	s disturbed of problematic.				
Type: ha												
Depth (in							Hydric S	oil Present? Yes ✓ No				
Remarks:	<u>=</u>		, 0									
LIVERALA	OV											
HYDROLO												
-	drology Indicators						_					
	•	one require	ed; check all that apply				<u>Sec</u>	Secondary Indicators (2 or more required)				
	Water (A1)		Salt Crust				Water Marks (B1) (Riverine)					
	ater Table (A2)		Biotic Crus	, ,	o (D12)		Sediment Deposits (B2) (Riverine)					
Saturation	on (A3) larks (B1) ( <b>Nonrive</b> i	ino)	Aquatic Inv				Drift Deposits (B3) (Riverine) Drainage Patterns (B10)					
	nt Deposits (B2) ( <b>No</b>					Living Ro		Dry-Season Water Table (C2)				
	posits (B3) (Nonrive		Presence		_	-		Crayfish Burrows (C8)				
	Soil Cracks (B6)		Recent Iro		•	,	· · · · · · · · · · · · · · · · · · ·	Saturation Visible on Aerial Imagery (C9)				
	on Visible on Aerial	Imagery (E		Shallow Aquitard (D3)								
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)								FAC-Neutral Test (D5)				
Field Obser	vations:											
Surface Wat	er Present?	'es	No <u>✓</u> Depth (inc	ches):								
Water Table Present? Yes No ✓ Depth (inches):												
Saturation P		'es	land Hydrol	ınd Hydrology Present? Yes No								
(includes cap	oillary fringe) corded Data (stream	n anna m	onitoring well aerial r	hotos ni	revious ins	enactions)	if available:					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:												
Tomano.												

Project/Site: Sloughhouse Solar Energy Project	nto County	Sampling Date:	11/4/2020										
Applicant/Owner: D.E. Shaw Renewable Investments	State: <u>CA</u> Sampling Point:												
Investigator(s): P. Keating and A. Godinho	{	Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 1	11							
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none): Concave Slope (%): 2												
Subregion (LRR): C	Lat: 38.4	7572943		Long: -121.1824047 Datum: WGS84									
Soil Map Unit Name: Galt clay, 2 - 5% slopes	NWI classification: n/a												
Are climatic / hydrologic conditions on the site typical for this t													
Are Vegetation, Soil, or Hydrology significantly disturbed?													
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)													
						turos oto							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.													
Hydrophytic Vegetation Present? Yes No		Is th	ne Sampled	Area									
Hydric Soil Present?  Yes No		with	nin a Wetlan	nd? Yes No <u>√</u> _									
Wetland Hydrology Present? Yes   ✓ No  Remarks:													
Upland point to 89 (SW-32)													
Opiana point to 83 (3W-32)													
VEGETATION – Use scientific names of plants													
	Absolute % Cover			Dominance Test work									
1				Number of Dominant Sp That Are OBL, FACW, of		(A)							
2				Total Number of Domin		` ,							
3				Species Across All Stra		(B)							
4				Percent of Dominant Sp	necies								
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW, of		(A/B)							
1				Prevalence Index worl	ksheet:								
2.				Total % Cover of:		by:							
3.				OBL species 0									
4				FACW species 0	x 2 =	0							
5				FAC species 25									
	0	= Total Co	ver	FACU species 50									
Herb Stratum (Plot size: 1m x 1m )  1. Holocarpha virgata	25	Υ	UPL	UPL species 25									
Bromus hordeaceus			FACU	Column Totals:10	<u>)U</u> (A) <u>40</u>	<u>00</u> (B)							
3. Festuca perennis	0.5		· · ·	Prevalence Index	= B/A =4								
4.				Hydrophytic Vegetation	on Indicators:								
5				Dominance Test is									
6				Prevalence Index is									
7				Morphological Adap	ptations¹ (Provide su s or on a separate sl								
8				Problematic Hydrop	·	,							
Woody Vine Stratum (Plot size:)	75	= Total Co	ver		ony no regetation (	=/\p/\\/							
1				<sup>1</sup> Indicators of hydric soil									
2.				be present, unless distu	urbed or problemation	<b>).</b>							
		= Total Co	ver	Hydrophytic									
% Bare Ground in Herb Stratum25 % Cover of	of Biotic Cr	ust (	)	Vegetation Present? Yes	s No_✓								
Remarks:													

		to the dep	oth needed to docu			or confirm	n the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	<u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/1	99	5 YR 4/6	1		PL	С	
			<u>-</u>		-	· <del></del>	<del></del> .	
					-			
		_		_				
	_	_		_				
				_				
			=Reduced Matrix, C			ed Sand G		ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	erwise not	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Rec					uck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M		1 (54)			uck (A10) ( <b>LRR B</b> )
	istic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle					d Vertic (F18) rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N		(1-2)			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	-,	Redox Dar		(F6)			
	d Below Dark Surfac	e (A11)	Depleted D		, ,			
	ark Surface (A12)		Redox Dep		(F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,
	Gleyed Matrix (S4)  Layer (if present):						unless dis	sturbed or problematic.
Type: ha								
Depth (in							Hydric Soil F	Present? Yes No _✓_
Remarks:	Ciles). <u>Z</u>						Hydric 30ii i	resent: res NO
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one require	d; check all that app	oly)			Second	dary Indicators (2 or more required)
	Water (A1)		Salt Crus	` ,				ater Marks (B1) ( <b>Riverine</b> )
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)				diment Deposits (B2) (Riverine)
Saturati	, ,		Aquatic Ir		, ,		<del></del> -	ift Deposits (B3) (Riverine)
	Marks (B1) (Nonrive		Hydrogen					ainage Patterns (B10)
	nt Deposits (B2) (No				-	_		y-Season Water Table (C2)
	posits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	erine)	Presence			4) ed Soils (C		ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (F		k Surface		iu Solis (Ci		allow Aquitard (D3)
	Stained Leaves (B9)	iiiagciy (L	· —	plain in Re	. ,		<del></del>	C-Neutral Test (D5)
Field Obser	( )							
Surface Wat	er Present?	′es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir			l l	land Hydrology	Present? Yes No
(includes cap	pillary fringe)						-	
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pr	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/C	County:	Sacramer	nto County	Sampling Date:	11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	98
Investigator(s): P. Keating and A. Godinho	Secti	on, Tov	vnship, Rar	ge: Township 7N / Ra	nge 7E / Section 1	1
Landform (hillslope, terrace, etc.): drainage	Loca	al relief	(concave, c	onvex, none): concave	Slope	· (%):2
Subregion (LRR): Lat	38.4729	3207		Long: -121.185974	Datum:	WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slo				NWI classific		
Are climatic / hydrologic conditions on the site typical for this time			_			
Are Vegetation, Soil, or Hydrology signific				Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology natural				eded, explain any answe		
SUMMARY OF FINDINGS – Attach site map show						tures, etc.
Hydrophytic Vegetation Present? Yes ✓ No						
Hydric Soil Present? Yes ✓ No			Sampled		, <u></u>	
Wetland Hydrology Present? Yes   ✓ No		withi	n a Wetlan	d? Yes <u>√</u>	No	
Remarks:						
Associated feature: SW-33						
VEGETATION – Use scientific names of plants.						
Abso	olute Dor	minant	Indicator	Dominance Test work	sheet:	
	over Spe			Number of Dominant Sp		
1				That Are OBL, FACW, o	or FAC: 2	(A)
2				Total Number of Domin		(D)
3				Species Across All Stra	ta: <u> </u>	(B)
	0 = Tc			Percent of Dominant Sp That Are OBL, FACW, of		(A/R)
Sapling/Shrub Stratum (Plot size:)						(,,,,,
1				Prevalence Index work		
2				Total % Cover of: OBL species		
3				FACW species		
5				FAC species		
	0 = To			FACU species		
Herb Stratum (Plot size: 5m x 5m )				UPL species	x 5 =	
	<u> </u>	Υ	<u>FAC</u>	Column Totals:	(A)	(B)
		Υ	FAC_	Provolence Index	= B/A =	
		Υ		Hydrophytic Vegetation		
4				✓ Dominance Test is		
5				Prevalence Index is		
7					ptations¹ (Provide su	upporting
8.				data in Remarks	s or on a separate sh	,
	25 = To			Problematic Hydrop	ohytic Vegetation' (E	Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	l and watland by dral	0.001 1001 104
1				be present, unless distu		
2	0 = To			Hydrophytic		
				Vegetation	/	
% Bare Ground in Herb Stratum % Cover of Bio	otic Crust _	/5	)	Present? Yes	s No	
Remarks:						
Amaranthus albus still green, watered from cat	ttle trou	igh?				

Depth (inches)         Matrix (inches)         Redox Features           Color (moist)         %         Color (moist)         %         Type¹         Loc²         Texture         Remarks           0-4         10 YR 3/1         70         5 YR 4/4         30         C         M         CL	
0-4 10 YR 3/1 70 5 YR 4/4 30 C M CL	
	_
	-
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=	Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators for Problematic Hydric S	
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B)	
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2)	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)   Sendy Myslay Mineral (S1) Redox Depressions (F8)   Versal Research (F9) vertical by display to present the present the present that the present the present that	
Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present unless disturbed or problematic.	
Restrictive Layer (if present):	
Type: hard pan	
Depth (inches): 4 Hydric Soil Present? Yes ✓	No
Remarks:	140
Nemans.	
HYDROLOGY	
HYDROLOGY Wetland Hydrology Indicators:	
	required)
Wetland Hydrology Indicators:	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)         Water Marks (B1) (Riverine)	· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)	verine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)	verine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine	rerine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C2)	rerine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C2)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)	rerine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C2)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)	rerine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Interpretation in Tilled Soils (C6)	rerine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Inagery (B7)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)	rerine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Inagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)	rerine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Inagery (B7)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):	rerine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Inagery (B7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Water Table Present?       Yes No ✓ Depth (inches):	rerine) 2) magery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Inagery (B7)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Water Table Present?       Yes No ✓ Depth (inches):         Wetland Hydrology Present? Yes ✓ (includes capillary fringe)	rerine) 2) magery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Interval Int	rerine) 2) magery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Inagery (B7)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Water Table Present?       Yes No ✓ Depth (inches):         Wetland Hydrology Present? Yes ✓ (includes capillary fringe)	rerine) 2) magery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Table (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Inagery (B7)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitard (D3)         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes No ✓ Depth (inches):         Water Table Present?       Yes No ✓ Depth (inches):         Wetland Hydrology Present? Yes ✓ (includes capillary fringe)	rerine) 2) magery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         _ Surface Water (A1)       _ Salt Crust (B11)       _ Water Marks (B1) (Riverine)         _ High Water Table (A2)       _ Biotic Crust (B12)       _ Sediment Deposits (B2) (Riverine)         _ Saturation (A3)       _ Aquatic Invertebrates (B13)       _ Drift Deposits (B3) (Riverine)         _ Water Marks (B1) (Nonriverine)       _ Hydrogen Sulfide Odor (C1)       _ Drainage Patterns (B10)         _ Sediment Deposits (B2) (Nonriverine)       _ Oxidized Rhizospheres along Living Roots (C3)       _ Dry-Season Water Table (C3)         _ Drift Deposits (B3) (Nonriverine)       _ Presence of Reduced Iron (C4)       _ Crayfish Burrows (C8)         _ Surface Soil Cracks (B6)       _ Recent Iron Reduction in Tilled Soils (C6)       _ Saturation Visible on Aerial Inundation Visible on Aerial Imagery (B7)       _ Thin Muck Surface (C7)       _ Shallow Aquitard (D3)         _ Water-Stained Leaves (B9)       _ Other (Explain in Remarks)       _ FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       _ Depth (inches):       _ Wetland Hydrology Present? Yes       _ ✓         Water Table Present?       Yes       No       _ Depth (inches):       _ Wetland Hydrology Present? Yes       _ ✓	rerine) 2) magery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         Surface Water (A1)       Salt Crust (B11)       Water Marks (B1) (Riverine)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2) (Riverine)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B3) (Riverine)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)	rerine) 2) magery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more         _ Surface Water (A1)       _ Salt Crust (B11)       _ Water Marks (B1) (Riverine)         _ High Water Table (A2)       _ Biotic Crust (B12)       _ Sediment Deposits (B2) (Riverine)         _ Saturation (A3)       _ Aquatic Invertebrates (B13)       _ Drift Deposits (B3) (Riverine)         _ Water Marks (B1) (Nonriverine)       _ Hydrogen Sulfide Odor (C1)       _ Drainage Patterns (B10)         _ Sediment Deposits (B2) (Nonriverine)       _ Oxidized Rhizospheres along Living Roots (C3)       _ Dry-Season Water Table (C3)         _ Drift Deposits (B3) (Nonriverine)       _ Presence of Reduced Iron (C4)       _ Crayfish Burrows (C8)         _ Surface Soil Cracks (B6)       _ Recent Iron Reduction in Tilled Soils (C6)       _ Saturation Visible on Aerial Inundation Visible on Aerial Imagery (B7)       _ Thin Muck Surface (C7)       _ Shallow Aquitard (D3)         _ Water-Stained Leaves (B9)       _ Other (Explain in Remarks)       _ FAC-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       _ Depth (inches):       _ Wetland Hydrology Present? Yes       _ ✓         Water Table Present?       Yes       No       _ Depth (inches):       _ Wetland Hydrology Present? Yes       _ ✓	rerine) 2) magery (C9)

Project/Site: Sloughhouse Solar Energy Project	c	ity/Count	<sub>ty:</sub> Sacrame	nto County	S	ampling Date:	11/4,	/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA S	ampling Point:	9	99
Investigator(s): P. Keating and A. Godinho	S	Section, T	ownship, Ra	nge: Township 7	'N / Rang	e 7E / Sectio	n 11	
Landform (hillslope, terrace, etc.): Hillslope								2
Subregion (LRR): C	at: 38.4	7299336	5	Long: -121.185	59926	Dat	um: WG	S84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s								
Are climatic / hydrologic conditions on the site typical for this tim								
Are Vegetation, Soil, or Hydrology signi				Normal Circumsta			✓ No	)
Are Vegetation, Soil, or Hydrology natur				eded, explain any				
SUMMARY OF FINDINGS – Attach site map sho							eatures	s, etc.
		Ť	<u> </u>	·				
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes✓ No			he Sampled			/		
Wetland Hydrology Present? Yes   ✓ No		wit	hin a Wetlar	nd? Ye	es	_ No <u>√</u>	_	
Remarks:								
Upland point to 98 (SW-33)								
VEGETATION – Use scientific names of plants.								
		Dominar	nt Indicator	Dominance Te	st worksh	eet:		
Tree Stratum (Plot size:)			? Status	Number of Dom				
1				That Are OBL, I	FACW, or	FAC:	0	(A)
2				Total Number o				
3				Species Across	All Strata:	-	1	(B)
4		= Total C		Percent of Dom			0	
Sapling/Shrub Stratum (Plot size:)		= Total C	ovei	That Are OBL, I	FACW, or	FAC:	0	(A/B)
1				Prevalence Ind				
2				Total % Co				
3				OBL species				
4				FACW species				
5	_	Tatal O		FAC species FACU species				_
Herb Stratum (Plot size: 5m x 5m )	<u> </u>	= Total C	over	UPL species				_
1. Bromus hordeaceus	75	Υ	FACU	Column Totals:			392.5	– (B)
2. Holocarpha virgata	12.5	N	<u>UPL</u>					
3. Amaranthus albus	2.5	N	FACU			B/A =	4.1	_
4. <u>Erodium cicutarium</u>	2.5	N	<u>UPL</u>	Hydrophytic V	_			
5. <u>Hordeum marinum</u>	2.5		<u>FAC</u>	Dominance				
6				Prevalence		3.0° ations¹ (Provide	a aupport	tina
7				Morphologi data in F	cai Adapia Remarks o	r on a separat	e suppon e sheet)	ing
8		= Total C		Problemation	C Hydrophy	ytic Vegetation	¹ (Explai	n)
Woody Vine Stratum (Plot size:)		= Total C	ovei					
1				<sup>1</sup> Indicators of hy				nust
2				be present, unit	ess disturb	ed or problem	atic.	
_	0	= Total C	over	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum5	Biotic Cru	ust	0	Present?	Yes_	No _	✓	
Remarks:				1				

Depth	Matrix			ox Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/2	95	5 YR 4/4	_ 5	<u>C</u>	PL	CL	
		_	-	_		-	<del>-</del>	
						·		
						-		
						-		
	-		-					
17			A Dadwaad Matrix C				21	etion. DI Done Lining M Metric
			M=Reduced Matrix, C II LRRs, unless other			ea Sana G		ation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> :
Histosol		ouble to u	Sandy Red		ou.,			uck (A9) (LRR C)
	pipedon (A2)		Stripped M					uck (A10) (LRR B)
	istic (A3)		Loamy Mu		l (F1)			ed Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M		, ,		Other (I	Explain in Remarks)
1 cm M	uck (A9) ( <b>LRR D</b> )		Redox Dar	k Surface	(F6)			
	d Below Dark Surfa	ce (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Gleyed Matrix (S4)  Layer (if present):						unless dis	sturbed or problematic.
Type: ha								
, <del> </del>	ches): 2						Usalaia Sail I	Dracout? Voc. / No.
	cnes): <u>Z</u>						Hydric Soil i	Present? Yes <u>√</u> No
Remarks:								
IYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Second	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	t (B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Se	ediment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic Ir	vertebrate	es (B13)		Dr	ift Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		Dr	ainage Patterns (B10)
Sedime	nt Deposits (B2) (No	onriverine	✓ Oxidized	Rhizosphe	res along	Living Ro	ots (C3) Dr	y-Season Water Table (C2)
Drift De	posits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C	4)	Cr	ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	on Reducti	on in Tille	d Soils (C	(6) Sa	turation Visible on Aerial Imagery (C9)
Inundati	ion Visible on Aerial	Imagery (I	B7) Thin Mucl	k Surface (	(C7)		Sh	allow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)		FA	C-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	ter Present?	Yes	No <u>√</u> Depth (ir	nches):				
Water Table	Present?	Yes	No <u>√</u> Depth (ir	nches):				
Saturation P	resent?	Yes	No <u>✓</u> Depth (ir	nches):		Wet	land Hydrology	Present? Yes No
(includes ca	pillary fringe)							
Describe Re	ecorded Data (strear	n gauge, n	nonitoring well, aerial	photos, pr	evious ins	spections)	, if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	C	city/County:	Sacramer	nto County	Sampling Date:11/4/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:100
Investigator(s): P. Keating and A. Godinho	§	Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Hillslope	I	Local relief	(concave, c	convex, none): concave	Slope (%):2
Subregion (LRR): C	_at: 38.4	7284762		Long: -121.1865161	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s					ation: R4SBC - Riverine
Are climatic / hydrologic conditions on the site typical for this tin			_		
Are Vegetation, Soil, or Hydrology signi					oresent? Yes <u>✓</u> No
Are Vegetation, Soil, or Hydrology natu				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map sho	<u>bwing</u>	Sampiin	g point it	cations, transects	, important leatures, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No _		Is the	e Sampled	Area	
Hydric Soil Present? Yes No			in a Wetlan		No
Wetland Hydrology Present? Yes ✓ No					<u> </u>
Remarks:					
Within SW-34					
<b>VEGETATION</b> – Use scientific names of plants.	ı				
		Dominant		Dominance Test work	sheet:
,		Species?		Number of Dominant Sp	
1				That Are OBL, FACW, o	)
3				Total Number of Domini Species Across All Stra	
4					
_		= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)					
1				Prevalence Index worl	ksneet: Multiply by:
2					x 1 =
3					x 2 =
5					x 3 =
		= Total Co	ver	·	x 4 =
Herb Stratum (Plot size: 5m x 5m )				UPL species	x 5 =
1. Festuca perennis	2.5	N	<u>FAC</u>	Column Totals:	(A) (B)
2. Hordeum marinum		<u>N</u>	<u>FAC</u>	Dravalance Index	D/A
3. Lythrum hyssopifolia	10	Y	OBL	Hydrophytic Vegetation	= B/A =
Amaranthus albus     Erysimum capitatum	2.5	N	UPL_	✓ Dominance Test is	
a Lastria samisla	2.5	N N	OBL UPL	Prevalence Index is	
6. <u>Lactuca serriola</u> 7. Elymus caput-medusae			UPL		ptations <sup>1</sup> (Provide supporting
8			0, 2	data in Remarks	s or on a separate sheet)
		= Total Co	ver	Problematic Hydror	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	_			1	
1				be present, unless distu	I and wetland hydrology must urbed or problematic.
2		= Total Co		Hydrophytic	<u> </u>
				Vegetation	,
% Bare Ground in Herb Stratum 75	Biotic Cru	ust0		Present? Yes	s No
Remarks:					

Depth (inches)	Matrix Color (moist)	%	Color (moist)	% Type	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-2			5 YR 4/4				- Tomania
<i>j</i> -2	10 11( 3/1		3 TK 4/4			Sifty clay	
	-						
	oncentration, D=Dep				ated Sand G		ation: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all					for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red				fluck (A9) (LRR C)
	oipedon (A2)		Stripped M				Muck (A10) (LRR B)
Black Hi	` '			ucky Mineral (F1)			ed Vertic (F18)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b>	C)		eyed Matrix (F2) Matrix (F3)			arent Material (TF2) Explain in Remarks)
	ick (A9) (LRR D)	<b>O</b> )		rk Surface (F6)		Other (	Explain in Nemains)
	d Below Dark Surfac	e (A11)		Dark Surface (F7)			
	ark Surface (A12)	( ,		pressions (F8)		<sup>3</sup> Indicators	of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Po				hydrology must be present,
Sandy G	Bleyed Matrix (S4)					unless di	isturbed or problematic.
	Layer (if present):						
Restrictive I Type: <u>ha</u>							
Type: ha						Hydric Soil	Present? Yes <u>√</u> No
Type: had Depth (ind Remarks:	rd pan		<u> </u>			Hydric Soil	Present? Yes <u>√</u> No
Type: had Depth (ind Remarks: Wangane	rd pan ches): se deposits ap		<u> </u>			Hydric Soil	Present? Yes √ No
Type: hai Depth (ind Remarks: Mangane	rd pan ches): se deposits ap	proxima	<u> </u>			Hydric Soil	Present? Yes <u>√</u> No
Type: had Depth (income Remarks: Mangane YDROLO Wetland Hydrogen)	rd pan ches): se deposits ap  GY drology Indicators:	proxima	tely 2?				
Type: had Depth (ind Remarks: Mangane YDROLO Wetland Hydron)	rd pan ches): se deposits ap	proxima	tely 2?	oly)		Secon	dary Indicators (2 or more required)
Type: had Depth (ind Remarks: Mangane  YDROLO Wetland Hyde Primary Indic Surface	ches):se deposits ap  GY  drology Indicators: cators (minimum of company) Water (A1)	proxima	tely 2?	st (B11)		<u>Secon</u>	dary Indicators (2 or more required) /ater Marks (B1) ( <b>Riverine</b> )
Type: hai Depth (ind Remarks: Mangane  YDROLO Wetland Hyd Primary India Surface High Wa	ches):se deposits ap  GY  drology Indicators: cators (minimum of of other (A1) atter Table (A2)	proxima	tely 2?  d: check all that app  Salt Crus  Biotic Cru	st (B11) ust (B12)		<u>Secon</u> W So	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Type: had Depth (ind Remarks: Mangane YDROLO Wetland Hyde Surface Surface	ches):se deposits ap  GY  drology Indicators: cators (minimum of of other (A1) atter Table (A2)	proxima	tely 2?  d; check all that app  Salt Crus  Biotic Cru  Aquatic I	ust (B11) ust (B12) nvertebrates (B13		Secon W Social So	Idary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Type: had Depth (ind Remarks: Mangane YDROLO Wetland Hydrogen High Water Mangane High Water Mangane)	GY drology Indicators: eators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver	proxima	tely 2?  d; check all that app  Salt Crus Biotic Cru Aquatic II Hydroger	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1	)	Secon W Si D D	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Type: han Depth (ind Remarks: Mangane YDROLO Wetland Hyder Mangane High Water Mangane Saturation Sedimer	GY drology Indicators: eators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver of the Deposits (B2) (No	proxima  one required  rine)  nriverine)	tely 2?  d; check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Y Oxidized	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo	) ng Living Ro	Secon W Secon D D ots (C3) D	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Type: han Depth (ind Remarks: Mangane YDROLO Wetland Hyder Mangane High Water Mater	GY drology Indicators: eators (minimum of or or or or or or or or or or or or or	proxima  one required  rine)  nriverine)	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger V Oxidized Presence	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron	) ng Living Ro (C4)	Secon  W So D Ots (C3) C	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Type: hai Depth (ind Remarks:  Mangane  IYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface	GY drology Indicators: eators (minimum of of other) water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver th Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6)	proxima  one required  rine)  nriverine)	tely 2?  d: check all that app  Salt Crus Biotic Cru Aquatic II Hydroger V Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T	) ng Living Ro (C4)	Secon  W Si D D Ots (C3) C C 6)	ridary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (C8)
Type: hai Depth (ind Remarks:  Mangane  YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation	GY drology Indicators: cators (minimum of of other) water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver at Deposits (B2) (No cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial	proxima  one required  rine)  nriverine)	tely 2?  d; check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7)	ng Living Ro (C4) illed Soils (C	Secon  W Solution  D Ots (C3)  C 6)  Sign C	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Type: hai Depth (ind Remarks:  Mangane  YDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundation	GY drology Indicators: eators (minimum of of other) water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver th Deposits (B2) (No	proxima  one required  rine)  nriverine)	tely 2?  d; check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T	ng Living Ro (C4) illed Soils (C	Secon  W Solution  D Ots (C3)  C 6)  Sign C	ridary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (C8)
Type: hai Depth (ind Remarks:  Mangane  YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep ✓ Surface Inundatio Water-S	GY  drology Indicators: cators (minimum of of the cators (Minimum of of the cators (Monriver of the cators (B1) (Nonriver of the cators (B2) (Nonriver of the cators (B3) (Nonriver of the cators (B3) (Nonriver of the cators (B4) (Nonriver of the cat	proxima  one required  rine)  nriverine)	tely 2?  d; check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7)	ng Living Ro (C4) illed Soils (C	Secon  W Solution  D Ots (C3)  C 6)  Sign C	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Type: hai Depth (ind Remarks:  Mangane  YDROLO  Wetland Hyd Primary Indid Surface High Wa Saturatid Water M Sedimer Drift Dep ✓ Surface Inundatid Water-S  Field Observ	GY  drology Indicators: eators (minimum of of other) drology Indicators: eators (minimum of other) draw (A1) draw (A2) draw (B1) (Nonriver) draw (B2) (Nonriver) draw (B3) (Nonriver) draw (B3) (Nonriver) draw (B4) (Nonri	proxima  one required  rine)  nriverine)  rine)	tely 2?  d; check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks	ng Living Ro (C4) illed Soils (C	Secon  W Solution  D Ots (C3)  C 6)  Sign C	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Type: hai Depth (ind Remarks:  Mangane  YDROLO  Wetland Hyd Surface High Wa Saturatio Water M Sedimer Drift Dep ✓ Surface Inundatio Water-S  Field Observ Surface Water	GY  drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver on (A3) larks (B3) (Nonriver osits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	proxima  one required  ine)  rine)  Imagery (B:	tely 2?  d; check all that app  Salt Crus Biotic Cru Aquatic II Hydroger V Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks;	ng Living Ro (C4) illed Soils (C	Secon  W Solution  D Ots (C3)  C 6)  Sign C	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Type: hai Depth (inc Remarks:  Mangane  YDROLO  Wetland Hyo Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep ✓ Surface Inundatio Water-S  Field Observ Surface Water Saturation Primary Indic	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver (B3) (Nonriver (B4)) on Visible on Aerial tained Leaves (B9) vations: er Present?	proxima  one required  rine)  nriverine)  rine)  Imagery (B:	d; check all that app Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks; nches):	ng Living Ro (C4) illed Soils (C	Secon  W Social Color Co	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Type: hai Depth (ind Remarks:  Mangane  YDROLO  Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep ✓ Surface Inundatio Water-S  Field Observ Surface Water Water Table Saturation Profit Composition  GY drology Indicators: cators (minimum of of other (A1) ater Table (A2) on (A3) darks (B1) (Nonriver (B2) (Nonriver (B3) (Nonr	proxima  one required  ine)  nriverine)  rine)  Imagery (B:	tely 2?  d: check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks; nches):	ng Living Ro (C4) illed Soils (C	Secon  W Si D D ots (C3) D C 6) Si Fi	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)  AC-Neutral Test (D5)	
Type: hai Depth (ind Remarks:  Mangane  IYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface Inundatic Water-S Field Observ Surface Water Water Table Saturation Profice (includes cap	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver (B3) (Nonriver (B4)) on Visible on Aerial tained Leaves (B9) vations: er Present?	proxima  one required  ine)  nriverine)  rine)  Imagery (B:	tely 2?  d: check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks; nches):	ng Living Ro (C4) illed Soils (C	Secon  W Si D D ots (C3) D C 6) Si Fi	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)  AC-Neutral Test (D5)
Type: han Depth (ind Remarks: Mangane Mangane Metland Hyder Mangane Metland Hyder Mater Mater Mater Surface Mater Surface Mater Surface Water Surface Water Table Saturation Projection Records (includes caped Describe Records)	GY drology Indicators: cators (minimum of of other (A1) ater Table (A2) on (A3) darks (B1) (Nonriver (B2) (Nonriver (B3) (Nonr	proxima  one required  ine)  nriverine)  rine)  Imagery (B:	tely 2?  d: check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks; nches):	ng Living Ro (C4) illed Soils (C	Secon  W Si D D ots (C3) D C 6) Si Fi	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)  AC-Neutral Test (D5)
Type: hai Depth (ind Remarks:  Mangane  IYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface Inundatic Water-S Field Observ Surface Water Water Table Saturation Profice (includes cap	GY drology Indicators: cators (minimum of of other (A1) ater Table (A2) on (A3) darks (B1) (Nonriver (B2) (Nonriver (B3) (Nonr	proxima  one required  ine)  nriverine)  rine)  Imagery (B:	tely 2?  d: check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks; nches):	ng Living Ro (C4) illed Soils (C	Secon  W Si D D ots (C3) D C 6) Si Fi	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)  AC-Neutral Test (D5)
Type: han Depth (ind Remarks: Mangane Mangane Metland Hyder Mangane Metland Hyder Mater Mater Mater Surface Mater Surface Mater Surface Water Surface Water Table Saturation Projection Records (includes caped Describe Records)	GY drology Indicators: cators (minimum of of other (A1) ater Table (A2) on (A3) darks (B1) (Nonriver (B2) (Nonriver (B3) (Nonr	proxima  one required  ine)  nriverine)  rine)  Imagery (B:	tely 2?  d: check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks; nches):	ng Living Ro (C4) illed Soils (C	Secon  W Si D D ots (C3) D C 6) Si Fi	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)  AC-Neutral Test (D5)
Type: han Depth (ind Remarks: Mangane Mangane Metland Hyder Mangane Metland Hyder Mater Mater Mater Surface Mater Surface Mater Surface Water Surface Water Table Saturation Projection Records (includes caped Describe Records)	GY drology Indicators: cators (minimum of of other (A1) ater Table (A2) on (A3) darks (B1) (Nonriver (B2) (Nonriver (B3) (Nonr	proxima  one required  ine)  nriverine)  rine)  Imagery (B:	tely 2?  d: check all that app  Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C1 Rhizospheres alo e of Reduced Iron ron Reduction in T ck Surface (C7) xplain in Remarks; nches):	ng Living Ro (C4) illed Soils (C	Secon  W Si D D ots (C3) D C 6) Si Fi	Idary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)  AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	(	City/Cour	<sub>nty:</sub> <u>Sacrame</u>	ento County	_ Sampling Date: _	11/9/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point: _	104
Investigator(s): A. Sennett and A. Crawford	;	Section,	Township, Ra	nge: <u>Township 7N / R</u>	ange 7E / Section	n 03
Landform (hillslope, terrace, etc.): Terrace (river)		Local rel	ief (concave,	convex, none): concave	Slop	oe (%):0
Subregion (LRR):						
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percen						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology si				"Normal Circumstances"		<b>/</b> No
Are Vegetation, Soil, or Hydrology na				eeded, explain any answ		<u> </u>
SUMMARY OF FINDINGS – Attach site map s						atures, etc.
			9		-, <b>p</b>	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			the Sampled		,	
Wetland Hydrology Present? Yes No		w	ithin a Wetla	nd? Yes	No <u>√</u>	-
Remarks:						
River Terrace next to sac. River in northern $\epsilon$	extent of	f proje	ct site. Ma	pped as wetland b	v SSHCP	
NWI Classification: PUBFx - Freshwater Pond		.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,	
VEGETATION – Use scientific names of plant	S.					
	Absolute	Domina	ant Indicator	Dominance Test wor	ksheet:	
			s? Status	Number of Dominant S		
1				That Are OBL, FACW,	or FAC: 0	(A)
2				Total Number of Domi		(D)
3				Species Across All Str	ata: <u>2</u>	(B)
	0			Percent of Dominant S That Are OBL, FACW,		(
Sapling/Shrub Stratum (Plot size:)						(A/B)
1				Prevalence Index wo		
2				Total % Cover of:		
3				OBL species		
4				FACW species FAC species		
5		= Total	Cover	FACU species		
Herb Stratum (Plot size: 5m x 5m )				UPL species		
1. Bromus hordeaceus		Y	FACU	Column Totals:		
2. Elymus caput-medusae		<u>Y</u>	<u>NL</u>	Dues velen ee la de	D/A	
3. <u>Erodium cicutarium</u>		N_	NL	Hydrophytic Vegetat	x = B/A =	
Carduus pycnocephalus     Torilis arvensis	10	N N	<u>NL</u> NL	Dominance Test is		
a Dumanu animum		N N	FAC	Prevalence Index		
Rumex crispus     Epilobium ciliatum			FACW		aptations <sup>1</sup> (Provide	supporting
8				data in Remarl	ks or on a separate	sheet)
		= Total	Cover	Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)				The disease of bookings	9 1 1 1 1	
1				<sup>1</sup> Indicators of hydric so be present, unless dis		
2		= Total	Cover	Hydrophytic	•	
10				Vegetation		,
% Bare Ground in Herb Stratum 10	of Biotic Cı	rust	0	Present? You	es No	<u>√</u>
Remarks:						

Profile Description: (Describe to the	e depth needed to document	the indicator or co	onfirm the absence of	findicators.)
Depth <u>Matrix</u>	Redox Fe			
(inches) Color (moist) 9	6 Color (moist)	% Type <sup>1</sup> Lo	c <sup>2</sup> <u>Texture</u>	Remarks
<u>0-6</u> <u>7.5 YR 2.5/2</u> <u>10</u>	0		Sandy silt	
· · · · · · · · · · · · · · · · · · ·			<del></del>	
·				
<del></del>				
1		<del></del>		
<sup>1</sup> Type: C=Concentration, D=Depletion				tion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable				or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S			ck (A9) (LRR C)
<ul><li>Histic Epipedon (A2)</li><li>Black Histic (A3)</li></ul>	Stripped Matrix Loamy Mucky M			ck (A10) ( <b>LRR B</b> ) I Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed N			ent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix			xplain in Remarks)
1 cm Muck (A9) ( <b>LRR D</b> )	Redox Dark Sur	, ,	0 (2.	replant in the mainle,
Depleted Below Dark Surface (A1		, ,		
Thick Dark Surface (A12)	Redox Depressi		<sup>3</sup> Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9	9)	wetland hy	drology must be present,
Sandy Gleyed Matrix (S4)			unless dist	urbed or problematic.
Restrictive Layer (if present):				
Type: Clay				
Depth (inches): 6			Hydric Soil P	resent? Yes No <u>√</u>
Remarks:			· ·	
LIVEROLOGY				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one re	• • • • • • • • • • • • • • • • • • • •			ary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11			ter Marks (B1) ( <b>Riverine</b> )
High Water Table (A2)	Biotic Crust (B	12)		liment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Inverte	ebrates (B13)	Drif	t Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfi			inage Patterns (B10)
Sediment Deposits (B2) (Nonrive	,		• • • • • •	-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Re	, ,	· · · · · · · · · · · · · · · · · · ·	yfish Burrows (C8)
Surface Soil Cracks (B6)		eduction in Tilled Soi	· · · —	uration Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Image				allow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain	in Remarks)	FAC	C-Neutral Test (D5)
Field Observations:				
	No <a href="#">✓</a> Depth (inches			
Water Table Present? Yes	No <u>✓</u> Depth (inches	):		
	No <a>✓</a> Depth (inches	):	Wetland Hydrology I	Present? Yes No✓
(includes capillary fringe)	no monitorina wall assistation	no province increase	one) if evellable:	
Describe Recorded Data (stream gaug	ge, monitoring well, aerial photo	us, previous inspecti	ons), ii avallable:	
Remarks:				

Project/Site: Sloughhouse Solar Energy Project	City/Co	unty: Sacram	nento County	Sampling Date: 11/11/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	Sampling Point: 105
Investigator(s): A. Sennett and A. Crawford	Section	n, Township, R	Range: <u>Township 7N / Ra</u>	ange 7E / Section 10
Landform (hillslope, terrace, etc.): Slope	Local r	elief (concave	e, convex, none): Convex-	concave Slope (%):5
Subregion (LRR): Lat:	38.48155	559	Long: <u>-121.1884805</u>	Datum: WGS84
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slop	es		NWI classific	cation: n/a
Are climatic / hydrologic conditions on the site typical for this time of				
Are Vegetation, Soil, or Hydrology significa	antly disturb	ed? Are	e "Normal Circumstances" p	present? Yes No _✓
Are Vegetation, Soil, or Hydrology naturally	y problemati	ic? (If	needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ing sam	oling point	locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Remarks:		ls the Sample within a Wetl		No <u>√</u>
Area mapped as wetland by sshcp				
VEGETATION – Use scientific names of plants.				
Absol	lute Domi	nant Indicator	Dominance Test work	sheet:
Tree Stratum         (Plot size:)         % Co           1		es? Status	Number of Dominant S	species or FAC: (A)
2			Total Number of Domin	
4			Percent of Dominant S	
Sapling/Shrub Stratum (Plot size:)	<u> </u>	al Cover		or FAC: 100 (A/B)
1			Prevalence Index wor	ksheet:
2			Total % Cover of:	Multiply by:
3			OBL species	x 1 =
4			FACW species	x 2 =
5			FAC species	x 3 =
	<u>)                                    </u>	al Cover	FACU species	x 4 =
Herb Stratum (Plot size: 5m x 5 m )	o v	E 4 C	UPL species	x 5 =
1. Hordeum marinum 30		FAC		(A) (B)
		FAC		c = B/A =
	5 <u>N</u> 2 N		Hydrophytic Vegetation	
			_ Dominance Test is	
5			Prevalence Index i	
6			_   •• • • • • • • • • • • • • • • • • •	aptations <sup>1</sup> (Provide supporting
7				s or on a separate sheet)
8	7 = Tota		Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)			1	
1			be present, unless dist	il and wetland hydrology must urbed or problematic.
	) = Tota		Hydrophytic	
% Bare Ground in Herb Stratum43	tic Crust	0	Vegetation Present? Ye	es ✓ _ No
Remarks:				
Bare ground due to severe cattle grazing and tra	ampling			

Profile Description: (Describe	to the depth ne	eded to docum	ent the ind	licator or co	onfirm t	he absence of indicators.)
Depth <u>Matrix</u>			Features	_ 1	2	_
(inches) Color (moist)		olor (moist)	%	Type <sup>1</sup> Lo	oc <sup>2</sup>	Texture Remarks
0-3 7.5 YR 2.5/2	100					Sandy Sil <mark>=</mark>
		_				
<sup>1</sup> Type: C=Concentration, D=Dep					nd Graii	
Hydric Soil Indicators: (Applic				.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	_	_ Sandy Redo				1 cm Muck (A9) ( <b>LRR C</b> )
Histic Epipedon (A2)	_	_ Stripped Ma		-4\		2 cm Muck (A10) ( <b>LRR B</b> )
Black Histic (A3)	_	Loamy Muck				Reduced Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gley		2)		Red Parent Material (TF2)
Stratified Layers (A5) (LRR of the description o	_	_ Depleted Ma _ Redox Dark	, ,	•\		Other (Explain in Remarks)
Depleted Below Dark Surface	_ (Δ11)	Redox Dark _ Depleted Da	,	•		
Thick Dark Surface (A12)		Redox Depr				<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	_	Vernal Pools	, ,	,		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	_		, (. 0)			unless disturbed or problematic.
Restrictive Layer (if present):						
Type: Clay						
Depth (inches): 3						Hydric Soil Present? Yes No✓
Remarks:						
remarks.						
HYDROLOGY						
Wetland Hydrology Indicators:	:					
Primary Indicators (minimum of o		ck all that apply	·)			Secondary Indicators (2 or more required)
Surface Water (A1)	•	Salt Crust (				Water Marks (B1) (Riverine)
High Water Table (A2)	•	Biotic Crus				Sediment Deposits (B2) (Riverine)
Saturation (A3)	•	Aquatic Inv		B13)		Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriver		Hydrogen S				Drainage Patterns (B10)
Sediment Deposits (B2) (No					a Poots	(C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonrive		Presence of	•		g ixoots	Crayfish Burrows (C8)
Surface Soil Cracks (B6)		Recent Iron			lc (C6)	Saturation Visible on Aerial Imagery (C9)
	•	<del></del> '			15 (CO)	
Inundation Visible on Aerial		Thin Muck				Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Other (Exp	iain in Rema	arks)		FAC-Neutral Test (D5)
Field Observations:	,	1 5 11 11				
	'es No					
	'es No					
	'es No	✓ Depth (inc	hes):		Wetlan	nd Hydrology Present? Yes No✓
(includes capillary fringe)  Describe Recorded Data (stream	n daude monitorii	na well periol n	hotos previ	inus inspecti	ione\ if	available:
Describe Necorded Data (Stiedii	i gauge, momon	ng wen, aenai p	notos, previ	ious mapecti	ono), il e	avallabic.
Remarks:						

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	nto County	Sampling Date: <u>11/9/2020</u>
Applicant/Owner: D.E. Shaw Renewable Investments		State: <u>CA</u>	Sampling Point:107
Investigator(s): A, Sennett and A. Crawford	Section, Township, Rai	nge: <u>Township 7N / Ra</u>	nge 7E / Section 10
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, o	convex, none): Concave	convex Slope (%): 1
Subregion (LRR): Lat	38.48108972	Long: -121.1892092	Datum: WGS84
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slo	pes	NWI classific	ation: n/a
Are climatic / hydrologic conditions on the site typical for this time			
Are Vegetation, Soil, or Hydrology signific	antly disturbed? Are "	Normal Circumstances" p	resent? Yes No✓
Are Vegetation, Soil, or Hydrology natura	ly problematic? (If ne	eded, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling point le	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No  Yes No  No	within a Wetlan		No <u> </u>
Upland area in northern portion of site. Mappe	ed as wetland by SSH	CP.	
VEGETATION – Use scientific names of plants.			
	olute Dominant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size:)% C	over Species? Status	Number of Dominant Sp	pecies
1		That Are OBL, FACW, o	or FAC: (A)
2. 3		Total Number of Domina	
4		Species Across All Stra	
	0 = Total Cover	Percent of Dominant Sp That Are OBL, FACW, of	pecies or FAC:100 (A/B)
Sapling/Shrub Stratum (Plot size:)		Prevalence Index worl	
1			Multiply by:
2			x 1 =
4.			x 2 =
5			x 3 =
	0 = Total Cover	*	x 4 =
Herb Stratum (Plot size: 5m x 5m )		UPL species	x 5 =
	<u> </u>	Column Totals:	(A) (B)
	20 Y FAC	December of the december of	D/A
	5 N NL		= B/A =
	3 N NL	Hydrophytic Vegetatio	
5		✓ Dominance Test is  Prevalence Index is	
6			otations <sup>1</sup> (Provide supporting
7			s or on a separate sheet)
8	58 = Total Cover	Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)  1		<sup>1</sup> Indicators of hydric soil	l and wetland hydrology must
2.		be present, unless distu	rbed or problematic.
	0 = Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum42	otic Crust0	Vegetation Present? Yes	s✓ No
Remarks:		ı	
Grazing and crispy vegetation			

Depth (inches)         Matrix         Redox Features           0-5         7.5 YR 2.5/2         100         S	Texture Remarks andy Sila
	andy Sila
	· · · · · · · · · · · · · · · · · · ·
	·
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grain	is. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) ( <b>LRR C</b> )
Histic Epipedon (A2) Stripped Matrix (S6)	2 cm Muck (A10) ( <b>LRR B</b> )
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Depleted Below Balk Surface (A11) Depleted Balk Surface (17) Thick Dark Surface (A12) Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)  Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
Restrictive Layer (if present):	
Type: Clay	
Depth (inches): 3	Hydric Soil Present? Yes No _ ✓
Remarks:	
łydrology	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)	<ul><li>Water Marks (B1) (Riverine)</li><li>Sediment Deposits (B2) (Riverine)</li><li>Drift Deposits (B3) (Riverine)</li></ul>
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> </ul>
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Discrete Rall that apply)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roots (B2)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>(C3) Dry-Season Water Table (C2)</li> </ul>
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     ✓ Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roots (C4)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)  Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)  Water-Stained Leaves (B9) Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No ✓ Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11) High Water Table (A2) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11) High Water Table (A2) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11) High Water Table (A2) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Diff Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Wetland	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)  Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)  Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):  Saturation Present? Yes No ✓ Depth (inches):  Saturation Present? Yes No ✓ Depth (inches):  Wetland  Wetland	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)  Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)  Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):  Saturation Present? Yes No ✓ Depth (inches):  Saturation Present? Yes No ✓ Depth (inches):  Wetland  Wetland	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (Presence of Reduced Iron (C4)  Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)  Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	c	city/County:	Sacramer	nto County	Sampling Date:11	1/9/2020
Applicant/Owner: D.E. Shaw Renewable Investments State: CA Sampling Point: 108						
Investigator(s): A, Sennett and A. Crawford		Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 10	)
Landform (hillslope, terrace, etc.): Hillslope	l	_ocal relief	(concave, c	convex, none): None	Slope ('	%): <u>1</u>
Subregion (LRR): L	_at: 38.4	8098309		Long: -121.1890506	Datum: V	WGS84
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent s						
Are climatic / hydrologic conditions on the site typical for this tin						
Are Vegetation, Soil, or Hydrology sign						No <b>√</b>
Are Vegetation ✓, Soil, or Hydrology natu				eded, explain any answe		
SUMMARY OF FINDINGS – Attach site map she			`		•	ıres, etc.
				,	<u></u>	
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _		Is the	e Sampled			
Wetland Hydrology Present? Yes No _		withi	in a Wetlan	d? Yes	No <u>√</u>	
Remarks:	<del></del> _					
Upland area in northern portion of site. Map	ned as	wetland	hv SSH	CP		
opiana area in northern portion of site. Map	pea as	Wetland	<i>x</i> 5 <i>y</i> 55 i i	C1 .		
VEGETATION – Use scientific names of plants.						
		Dominant	Indicator	Dominance Test work	sheet:	
		Species?		Number of Dominant Sp		
1				That Are OBL, FACW,		(A)
2				Total Number of Domin	ant	
3				Species Across All Stra	ıta: <u>2</u>	(B)
4				Percent of Dominant Sp		
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, of	or FAC: 100	(A/B)
1				Prevalence Index wor	ksheet:	
2				Total % Cover of:	Multiply by	<u>:</u>
3				OBL species		
4				FACW species		
5				FACIL analisa		
Herb Stratum (Plot size: 5m x 5m )		= Total Co	ver	FACU species UPL species		
1. Hordeum marinum	30	Υ	FAC	Column Totals:		
2. <u>Festuca perennis</u>		Υ	FAC	Column Fotalo.	(//)	(D)
3. Bromus diandrus	5	N	NL		= B/A =	
4. Avena sp.		N	<u>NL</u>	Hydrophytic Vegetation		
5				✓ Dominance Test is		
6				Prevalence Index is	s ≤3.0° ptations¹ (Provide sup	norting
7				Morphological Ada data in Remarks	s or on a separate she	et)
8		= Total Co	····	Problematic Hydro	phytic Vegetation <sup>1</sup> (Ex	plain)
Woody Vine Stratum (Plot size:)		= Total Co	vei			
1				<sup>1</sup> Indicators of hydric soi		gy must
2				be present, unless distu	Tibed of problematic.	
_	0	= Total Co	ver	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 40	Biotic Cru	ust0			s <u>√</u> No	_
Remarks:						
Grazing						
-						

	cription: (Describe	to the dept				or confiri	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features  %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 2.5/2	100					Sandy Sil	
<u> </u>	7.5 11(2.5)2	100					Sarray Silia	
		_						
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion. RM=	Reduced Matrix. C	S=Covered	or Coate	ed Sand G	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
	Indicators: (Applic							or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Mu	ick (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
Black Hi	istic (A3)		Loamy Mud	ky Mineral	(F1)		Reduced	d Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Par	ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M	` ,			Other (E	xplain in Remarks)
	uck (A9) ( <b>LRR D</b> )	(8.4.4)	Redox Darl	•	•			
	d Below Dark Surfac	e (A11)	Depleted D				31 12 1	Character to a second control of
	ark Surface (A12)  Mucky Mineral (S1)		Redox Dep Vernal Poo		-8)			f hydrophytic vegetation and ydrology must be present,
	Gleyed Matrix (S4)		veillai F00	15 (Г9)				turbed or problematic.
	Layer (if present):							tarboa or problematic.
Type: Cla								
	ches): <u>3</u>						Hydric Soil P	Present? Yes No ✓
Remarks:	,							
HYDROLO								
-	drology Indicators							
Primary India	cators (minimum of o	one required	; check all that app	y)			<u>Second</u>	ary Indicators (2 or more required)
_	Water (A1)		Salt Crust	,				iter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Sec	diment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic In	vertebrates	s (B13)		Drif	ft Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen	Sulfide Oc	for (C1)		Dra	ainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)			_	_		-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	on in Tille	d Soils (C	· —	turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B7						allow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in Re	marks)		FA	C-Neutral Test (D5)
Field Obser			,					
Surface Wat			No <u>✓</u> Depth (in					
Water Table			No <u>√</u> Depth (in					
Saturation P		/es N	No <u>✓</u> Depth (in	ches):		Wet	land Hydrology	Present? Yes No
(includes cap Describe Re	pillary fringe) corded Data (strean	n daude mo	nitoring well aerial	nhotos pre	evious ins	nections)	if available:	
Doddingo iko	oordod Bala (olrodii	r gaago, mo	rittoring won, donar	priotoo, pri	3 V 10 GO 11 10	poduorio	, ii availabio.	
Remarks:								
. torriarno.								

Applicant/Owner: D.E. Shaw Renewable Investments  State: CA Sampling Point: 109  Investigator(s): A, Sennett, A. Crawford  Section, Township, Range: Township 7N / Range 7E / Section 10  Local relief (concave, convex, none): Convex  Slope (%): 0.						
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Convex Slope (%): 0.						
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Convex Slop						
Subregion (LRR): Lat: <u>38.47968014</u> Long: <u>-121.1895369</u> Datum: <u>WGS84</u>						
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slopes NWI classification: n/a						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly disturbed?						
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et	c.					
Hydrophytic Vegetation Present?  Yes No ✓  Hydric Soil Present?  Yes No ✓  Within a Wester d2 Veg No ✓						
Wetland Hydrology Present? Yes No✓ within a Wetland? Yes No✓						
Remarks:						
Associated Feature: VP-5						
VECETATION. Has aciontific names of plants						
VEGETATION – Use scientific names of plants.  Absolute Dominant Indicator   Dominance Test worksheet:						
Absolute Dominant Indicator Dominance Test worksheet:    Tree Stratum (Plot size:)						
1 That Are OBL, FACW, or FAC: (A)						
2 Total Number of Dominant						
3 Species Across All Strata: 2 (B)						
4 Percent of Dominant Species						
Sapling/Shrub Stratum (Plot size:)	3)					
1 Prevalence Index worksheet:						
2						
3 OBL species x 1 =						
4 FACW species x 2 =						
5 FAC species x 3 =						
= Total Cover						
4 Hordeum murinum						
2. Bromus hordeaceus 20 Y FACU Column Totals: (A) (B)	)					
3. <u>Hordeum marinum</u> 5 N FAC Prevalence Index = B/A =						
4. Bromus hordeaceus 10 N FACU Hydrophytic Vegetation Indicators:						
5. Avena sp         5         N         NL         Dominance Test is >50%						
6 Prevalence Index is ≤3.0 <sup>1</sup>						
7 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)						
8 Problematic Hydrophytic Vegetation (Evolain)						
Woody Vine Stratum (Plot size:)						
<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
2 be present, unless disturbed or problematic.						
= Total Cover Hydrophytic						
Vegetation   Vegetation   Vegetation   Vegetation   Present? Yes No ✓						
Remarks:						

Profile Descri	iption: (Describ	e to the dep	th needed to docu	nent the ind	licator or co	nfirm th	ne absence of indicator	s.)
Depth _	Matrix			x Features	_ 1	2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup> Lo	)C <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/2	100				<u>S</u>	ilty clay	
<del></del>							<del></del>	
-								
		<del>_</del>					<del></del>	
		•	Reduced Matrix, C			nd Grain		ore Lining, M=Matrix.
-		licable to all	LRRs, unless othe		.)		Indicators for Problem	•
Histosol (A			Sandy Red				1 cm Muck (A9) ( <b>LF</b>	
	pedon (A2)		Stripped Ma		>		2 cm Muck (A10) ( <b>L</b>	*
Black Hist	, ,			ky Mineral (F			Reduced Vertic (F1	
	Sulfide (A4)	2.0%		ed Matrix (F	2)		Red Parent Materia	, ,
	Layers (A5) (LRI	R C)	Depleted M	. ,	•\		Other (Explain in Re	emarks)
	k (A9) ( <b>LRR D</b> ) Below Dark Surf	aca (A11)		k Surface (F6 ark Surface (	•			
	k Surface (A12)	ace (ATT)		ressions (F8)			<sup>3</sup> Indicators of hydrophyti	ic vegetation and
	icky Mineral (S1)		Vernal Poo		,		wetland hydrology mu	•
	eyed Matrix (S4)			(. 0)			unless disturbed or pr	·
	ayer (if present)	:						
Type: Clay								
Depth (inch						1.	Hydric Soil Present?	Yes No <u>√</u>
Remarks:			<del></del>					
HYDROLOG	Υ							
Wetland Hydr	rology Indicator	s:						
Primary Indica	itors (minimum o	f one required	l; check all that appl	y)			Secondary Indicate	ors (2 or more required)
Surface W	Vater (A1)		Salt Crust	(B11)			Water Marks (	
	er Table (A2)		Biotic Cru					osits (B2) (Riverine)
Saturation			Aquatic In		B13)		Drift Deposits	
	rks (B1) ( <b>Nonriv</b>	erine)	Hydrogen				Drainage Patte	
	Deposits (B2) (	,				a Roots	(C3) Dry-Season W	
	osits (B3) (Nonri		Presence			9	Crayfish Burro	, ,
	oil Cracks (B6)	, o ,	Recent Iro			ls (C6)		ble on Aerial Imagery (C9)
	n Visible on Aeria	al Imagery (B7				.0 (00)	Shallow Aquita	
	ined Leaves (B9		Other (Ex				FAC-Neutral T	
Field Observa	•	')	Other (EX	Jan III I Come	arro)		17.0 110011011	COT (DO)
Surface Water		Voc.	No <u>✓</u> Depth (in	oboo):				
Water Table P			No <u>√</u> Depth (in					
Saturation Pre		Yes I	No <u>✓</u> Depth (in	ches):		Wetland	d Hydrology Present?	Yes No <u>√</u>
(includes capil Describe Reco		am gauge. mo	nitoring well, aerial	photos, previ	ous inspecti	ons), if a	available:	
	(	3 - 3 - ,	3 , , , , ,			/,		
Remarks:								
iveillains.								

Project/Site: Sloughhouse Solar Energy Project	Sacramer	nto County	_ Sampling Date:	11/9/2020		
		State: CA	· -			
Investigator(s): A, Sennett and A. Crawford						
Landform (hillslope, terrace, etc.): Flatlands				-		
Subregion (LRR): La						
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slo						
Are climatic / hydrologic conditions on the site typical for this time						
Are Vegetation ✓, Soil, or Hydrology signifi				Normal Circumstances"		No. ✓
Are Vegetation, Soil, or Hydrology natura						110
SUMMARY OF FINDINGS – Attach site map sho						turos oto
SOMMANT OF FINDINGS - Attach site map sho	willy 5		y point ic	Cations, transect	s, important lea	
Hydrophytic Vegetation Present? Yes No		Is the	e Sampled	Area		
Hydric Soil Present? Yes No	<u>√</u>	withi	n a Wetlan	d? Yes	No <u>√</u>	
Wetland Hydrology Present? Yes No	<u>*</u>					
Associated feature: SWS 02						
VEGETATION – Use scientific names of plants.						
-		Dominant Species?		Dominance Test wor		
1				Number of Dominant 3 That Are OBL, FACW		(A)
2						
3				Total Number of Domi Species Across All Str		(B)
4				Percent of Dominant S	Species	
Ocalica/Ohart Oratura (Plateira	0 =	: Total Cov	/er	That Are OBL, FACW		(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wo	orkshoot:	
1					Multiply	by:
3				OBL species		
4				FACW species		
5				FAC species		
		: Total Cov	/er	FACU species	x 4 =	
Herb Stratum (Plot size: 1m x 1m)				UPL species	x 5 =	
	30	Y	NL_	Column Totals:	(A)	(B)
-	<u>20</u> _	<u>Y</u>	<u>FACU</u>	Prevalence Inde	ex = B/A =	
Holocarpha virgate     Hordeum marinum	13	N N	NL FAC	Hydrophytic Vegetat	·	
- · ·	5		FACU	Dominance Test i		
Festuca perennis     Bromus hordeaceus	5		FACU	Prevalence Index		
7			17100	Morphological Ad	laptations <sup>1</sup> (Provide s	supporting
8					ks or on a separate s	
		: Total Cov	/er	Problematic Hydr	ophytic Vegetation' (	Explain)
Woody Vine Stratum (Plot size:)				1		
1				<sup>1</sup> Indicators of hydric so be present, unless dis		
2		T			· · · · · · · · · · · · · · · · · · ·	
_		: Total Cov		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 20	siotic Crus	st0		Present? Y	es No <u>√</u>	<u></u>
Remarks:						
Grazing						

Profile Description: (De	escribe to the dept	h needed to docu	nent the ind	licator or cor	nfirm the abs	sence of indicators.)	
	Matrix		x Features	_ 1	2	_	
(inches) Color (n	noist) %	Color (moist)		Type <sup>1</sup> Loc	c <sup>-</sup> Textu	ure Remarks	
0-4 7.5 YR 3/	2 100				Clay		
				<del></del>			
							<u></u>
				<del></del>			
<sup>1</sup> Type: C=Concentration						<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators:	(Applicable to all			.)		eators for Problematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		Sandy Red				1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2)		Stripped Ma				2 cm Muck (A10) (LRR B)	
Black Histic (A3)	4)		ky Mineral (F			Reduced Vertic (F18)	
Hydrogen Sulfide (A			ed Matrix (F.	2)		Red Parent Material (TF2)	
Stratified Layers (A5		Depleted M	. ,	• \	_ '	Other (Explain in Remarks)	
1 cm Muck (A9) (LR Depleted Below Dark			: Surface (F6 ark Surface (	•			
Thick Dark Surface (	, ,		ressions (F8)		3India	cators of hydrophytic vegetation and	
Sandy Mucky Minera		Vernal Poo		,		etland hydrology must be present,	
Sandy Gleyed Matrix			o (. o)			less disturbed or problematic.	
Restrictive Layer (if pre						, , , , , , , , , , , , , , , , , , ,	
Type: Clay	•						
Depth (inches): 3		<del></del>			Hydri	c Soil Present? Yes No	✓
Remarks:		<del></del> -			,		
. tomano							
İ							
HYDROLOGY							
Wetland Hydrology Ind	icators:						
Primary Indicators (minin	num of one required	: check all that appl	v)			Secondary Indicators (2 or more require	ed)
Surface Water (A1)	•	Salt Crust				Water Marks (B1) (Riverine)	
High Water Table (A	2)	Biotic Crus				Sediment Deposits (B2) (Riverine)	
Saturation (A3)	-/	Aquatic In		B13)		Drift Deposits (B3) (Riverine)	
Water Marks (B1) (N	lonriverine)	Hydrogen				Drainage Patterns (B10)	
Sediment Deposits (	•					Dry-Season Water Table (C2)	
Drift Deposits (B3) (I		Presence			. ,	Crayfish Burrows (C8)	
Surface Soil Cracks	,	Recent Iro				Saturation Visible on Aerial Imagery	, (C9)
Inundation Visible or	, ,	·			, ,	Shallow Aquitard (D3)	y (C3)
Water-Stained Leave		Other (Ex				Shallow Aquitard (D3) FAC-Neutral Test (D5)	
Field Observations:	es (D9)	Other (EX	Dialii iii Keiiia	aiks)		FAC-Neutral Test (D5)	
	V	La / Davida Ca	-l\				
Surface Water Present?		No <u>✓</u> Depth (in					
Water Table Present?		No <u>√</u> Depth (in					
Saturation Present?	Yes N	No <u>✓</u> Depth (in	ches):	\	Wetland Hyd	rology Present? Yes No _	✓
(includes capillary fringe)  Describe Recorded Data	(stream gauge mo	nitoring well aerial	ohotos previ	ious inspectio	ons), if availah	ole:	
Describe Recorded Data	(Stream gauge, mo	moning well, acrial	priotos, previ	ious mapeone	Jiioj, ii avaliak	no.	
Domorko							
Remarks:							

Project/Site: Sloughhouse Solar Energy Project	City/C	<sub>ounty:</sub> <u>Sacramer</u>	nto County	Sampling Date: 11/9/2020	
Applicant/Owner: D.E. Shaw Renewable Investments State: CA Sampling Point: 11					
Investigator(s): A. Sennett and A. Crawford	Section	n, Township, Rar	nge: Township 7N	/ Range 7E / Section 03	
Landform (hillslope, terrace, etc.): flatlands	Local	relief (concave, c	onvex, none): flat	Slope (%): 0	
Subregion (LRR):	Lat: 38.4818!	566	Long: -121.19523	Datum: WGS84	
Soil Map Unit Name: Reiff fine sandy loam, 0 - 2% slope:					
Are climatic / hydrologic conditions on the site typical for this t					
Are Vegetation ✓, Soil ✓, or Hydrology ✓ sig				es" present? Yes No _ ✓	
Are Vegetation, Soil, or Hydrology nat				swers in Remarks.)	
				,	
SUMMARY OF FINDINGS – Attach site map sl	nowing sam	pling point ic	cations, transe	ects, important leatures, etc.	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks:		Is the Sampled within a Wetlan		No <u>√</u> _	
Cultivated field in northern extent of project PEM1C - Freshwater Emergent Wetland	site mappe	d as wetland	by SSITCP		
VEGETATION – Use scientific names of plants	S.				
	Absolute Dom % Cover Spec	cies? Status	Number of Domina That Are OBL, FAC	nt Species	
2.			Total Number of De		
3			Species Across All		
4			Percent of Domina	nt Species	
Sapling/Shrub Stratum (Plot size:)	0 = Tot	al Cover		CW, or FAC: (A/B)	
1			Prevalence Index	worksheet:	
2			Total % Cover	of: Multiply by:	
3			OBL species	x 1 =	
4			FACW species	x 2 =	
5				x 3 =	
Herb Stratum (Plot size: 5m x 5m )	= Tot	al Cover		x 4 =	
1. Eragrostis mexicana	<u> </u>	N FACU		x 5 =	
2. Convolvulus arvensis			Column Totals:	(A) (B)	
3.			Prevalence Ir	ndex = B/A =	
4		í	Hydrophytic Vege		
5			Dominance Te		
6			Prevalence Inc		
7				Adaptations <sup>1</sup> (Provide supporting narks or on a separate sheet)	
8				ydrophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)	= Tot	al Cover			
1				c soil and wetland hydrology must disturbed or problematic.	
	= Tot		Hydrophytic		
% Bare Ground in Herb Stratum92 % Cover of	of Biotic Crust	0	Vegetation Present?	Yes No✓	
Remarks:					
Area is cultivated/ disturbed and lacks vege	tation				
The is cultivated, distal sed and lacks vege	tation.				

Profile Desc	ription: (Describe	to the depti	n needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature	S1	. 2	_	
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	7.5 YR 2.5/2	100					Sandy Silt	Well tilled soils
				-				
1Typo: C-Co	oncentration, D=Dep	olotion PM-I	Poducod Matrix CS	S-Covered	d or Coate	nd Sand Gr	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
	ndicators: (Applic					a Sana Gi		for Problematic Hydric Soils <sup>3</sup> :
Histosol		able to all L	Sandy Red		cu.,			Muck (A9) (LRR C)
	ipedon (A2)		Stripped Ma					Muck (A10) ( <b>LRR B</b> )
Black His			Loamy Muc	` '	l (F1)			ed Vertic (F18)
	n Sulfide (A4)		Loamy Gley					arent Material (TF2)
	Layers (A5) (LRR	C)	Depleted M		( )			(Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )	,	Redox Dark	, ,	(F6)		<del></del>	,
Depleted	Below Dark Surfac	e (A11)	Depleted D	ark Surfac	e (F7)			
Thick Da	rk Surface (A12)		Redox Dep	ressions (	F8)		<sup>3</sup> Indicators	of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pool	s (F9)				hydrology must be present,
	leyed Matrix (S4)						unless d	listurbed or problematic.
	ayer (if present):							
Туре:			<u> </u>					
Depth (inc	ches):						Hydric Soil	Present? Yes No✓
Remarks:								
HYDROLO	GY							
	drology Indicators:							
•	-		ahaali all that anni				Casar	adom (Indicators (2 or more required)
-	ators (minimum of o	one required;						ndary Indicators (2 or more required)
Surface \	` '		Salt Crust	` '			<del></del>	Vater Marks (B1) (Riverine)
_	ter Table (A2)		Biotic Crus		(5.40)			sediment Deposits (B2) (Riverine)
Saturatio	( )		Aquatic In					Orift Deposits (B3) (Riverine)
	arks (B1) (Nonrive		Hydrogen		, ,			Orainage Patterns (B10)
	t Deposits (B2) (No				_	_		Ory-Season Water Table (C2)
	osits (B3) (Nonrive	rine)	Presence					Crayfish Burrows (C8)
	Soil Cracks (B6)		Recent Iro			d Soils (C6		Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B7)						Shallow Aquitard (D3)
	tained Leaves (B9)		Other (Exp	plain in Re	marks)		F	AC-Neutral Test (D5)
Field Observ								
Surface Water			o <u>✓</u> Depth (in					
Water Table	Present?	'es N	o <u>√</u> Depth (in	ches):		_		
Saturation Pr	esent?	'es N	o ✓ Depth (in	ches):		Wetla	and Hydrolog	y Present? Yes No✓
(includes cap			Storing well assisted	abata a	ordore !	nootic::::\	if available.	
Describe Ked	corded Data (stream	ı gauge, mor	intoring well, aerial	priotos, pr	evious ins	pections),	ıı avalladle:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	Project/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: 11/9/020							
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 112					
Investigator(s): A. Sennett and A. Crawford	Section, Township, R	Range: Township 7N / Ra	nge 7E / Section 03					
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave	e, convex, none): Convex	Slope (%):1					
Subregion (LRR): Lat	38.48183835	Long: -121.189114	Datum: WGS84					
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slo								
	Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology signific			oresent? Yes <u>✓</u> No					
Are Vegetation _ ✓ , Soil, or Hydrology natural		needed, explain any answe						
	•							
SUMMARY OF FINDINGS – Attach site map show		locations, transects	, important leatures, etc.					
Hydrophytic Vegetation Present? Yes ✓ No		ed Area						
Hydric Soil Present? Yes No	within a Wetl		No <u>√</u>					
Wetland Hydrology Present? Yes No	<u></u>		<del>_</del>					
Remarks:								
Area mapped as wetland by SSHCP								
VEGETATION – Use scientific names of plants.								
	olute Dominant Indicator over Species? Status							
1		Number of Dominant S	pecies or FAC: <u>         2          (</u> A)					
2								
3		<ul><li>Total Number of Domin</li><li>Species Across All Stra</li></ul>						
4			. , ,					
	0 = Total Cover	Percent of Dominant Sp That Are OBL, FACW, of	or FAC:100 (A/B)					
Sapling/Shrub Stratum (Plot size:)		Prevalence Index wor	kshoot:					
1		-	Multiply by:					
2		-	x 1 =					
4			x 2 =					
5		<b>-</b>	x 3 =					
	0 = Total Cover	FACU species	x 4 =					
Herb Stratum (Plot size:)		UPL species	x 5 =					
	30 Y FAC		(A) (B)					
	<u>20 Y FAC</u> 5 N NL	— I	= B/A =					
	5 N NL	Hydrophytic Vegetation						
	5 N FACU	-						
6		Prevalence Index is	s ≤3.0 <sup>1</sup>					
7		Morphological Ada	ptations <sup>1</sup> (Provide supporting					
8			s or on a separate sheet)					
	= Total Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)					
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric soi	I and wetland hydrology must					
1		be present, unless distu						
2	0 = Total Cover	- Hydrophytic						
		Vegetation	- / N-					
	otic Crust0	Present? Ye	s No					
Remarks:								
Vegetation is dry and matted down from grazing	ng/ cattle activity							

Profile Description: (Describe to the depth need Depth Matrix	Redox Features			
(inches) Color (moist) % Co	olor (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-3 7.5 YR 2.5/2 100			Sandy sil	
			<u> </u>	
	<del></del>		<del></del>	
			<del></del>	
			_	
Times C. Consentration D. Donletine DM Dadu	and Matrix CC Covered a		21.0	
Type: C=Concentration, D=Depletion, RM=Redu Hydric Soil Indicators: (Applicable to all LRRs				ocation: PL=Pore Lining, M=Matrix.  s for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	_ Sandy Redox (S5)	,		Muck (A9) (LRR C)
Histic Epipedon (A2)	_ Stripped Matrix (S6)			Muck (A10) ( <b>LRR B</b> )
Black Histic (A3)	_ Loamy Mucky Mineral (F	F1)		ced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F			Parent Material (TF2)
Stratified Layers (A5) (LRR C)	_ Depleted Matrix (F3)	,		(Explain in Remarks)
1 cm Muck (A9) ( <b>LRR D</b> )	_ Redox Dark Surface (F6	6)		
Depleted Below Dark Surface (A11)	_ Depleted Dark Surface (			
Thick Dark Surface (A12)	Redox Depressions (F8)	3)		s of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	_ Vernal Pools (F9)			I hydrology must be present,
Sandy Gleyed Matrix (S4)			unless	disturbed or problematic.
Restrictive Layer (if present):				
Type: Clay				,
Depth (inches): 3  Remarks:			Hydric Soi	il Present? Yes No _√
Depth (inches): 3  Remarks:			Hydric Soi	il Present? Yes No _√
Depth (inches): 3  Remarks:  YDROLOGY			Hydric Soi	il Present? Yes No _√
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:	ck all that apply)			
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; chec			Seco	ondary Indicators (2 or more required)
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; checounty)  Surface Water (A1)	Salt Crust (B11)		<u>Seco</u> \	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
Depth (inches): 3  Remarks:  YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; checology in the control of the control o	Salt Crust (B11) Biotic Crust (B12)	(B13)	<u>Seco</u> \	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; chec  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (		Seco \ \;	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; checomology and the control of the contro	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor	r (C1)	Seco — \ — \ — [	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; checomorphism)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odol Oxidized Rhizospheres	r (C1) s along Living F	Seco — \ — \ — \ — \ Roots (C3) _ \	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; checomorphism)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced	r (C1) s along Living F Iron (C4)	Seco — \ — \ — \ — \ Roots (C3) — \	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check of the control of th	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction	r (C1) s along Living F Iron (C4) i in Tilled Soils (	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Primary Indicators (minimum of one required; checomology Water Marks (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7	r (C1) s along Living F Iron (C4) i in Tilled Soils ( 7)	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Primary Indicators (minimum of one required; checomology and Indicators)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction	r (C1) s along Living F Iron (C4) i in Tilled Soils ( 7)	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Pried Observations:  Depth (inches): 3  Remarks:  Primary Indicators (minimum of one required; checking of the control of the	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remai	r (C1) s along Living F Iron (C4) in Tilled Soils (7) arks)	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Depth (inches): 3  Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check of the control of th	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remains	r (C1) s along Living F Iron (C4) in Tilled Soils (7) arks)	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Rema	r (C1) s along Living F Iron (C4) in Tilled Soils ( 7) arks)	Seco Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; checonomics of the state	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remains) Depth (inches): Depth (inches):	r (C1) s along Living F Iron (C4) in Tilled Soils (7) arks)  W	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Water Table Present? Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remains) Depth (inches): Depth (inches):	r (C1) s along Living F Iron (C4) in Tilled Soils (7) arks)  W	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
Prince Section Present?  Depth (inches): 3  Proposed Prop	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remains) Depth (inches): Depth (inches):	r (C1) s along Living F Iron (C4) in Tilled Soils (7) arks)  W	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Present? Water Table Present? Water Table Present? Water Table Recorded Data (stream gauge, monitoring Remarks:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remains) Depth (inches): Depth (inches):	r (C1) s along Living F Iron (C4) in Tilled Soils (7) arks)  W	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
Print Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water Table Present?  Water Table Present?  Water Table Present?  Water Table Present?  Water Table Present?  Water Table Presert?  Water Table Present?  Water Table Presert?  Water Table Presert?  Water Table Presert?  Water Table Present?  Water	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remains) Depth (inches): Depth (inches):	r (C1) s along Living F Iron (C4) in Tilled Soils (7) arks)  W	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; checonomics (minimum of o	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remains) Depth (inches): Depth (inches):	r (C1) s along Living F Iron (C4) in Tilled Soils (7) arks)  W	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	Project/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: 11/9/1010						
Applicant/Owner: D.E. Shaw Renewable Investments State: CA Sampling Point: 113							
Investigator(s): A, Sennett, A. Crawford	Section	n, Township, R	ange: Township 7N / Ra	inge 7E / Section 03			
Landform (hillslope, terrace, etc.): Hillside	Local	relief (concave	, convex, none): Convex	Slope (%):1			
Subregion (LRR): Lat:	38.48179	256	Long: -121.1889405	Datum: WGS84			
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slop							
Are climatic / hydrologic conditions on the site typical for this time of							
Are Vegetation, Soil, or Hydrology significa				present? Yes No			
Are Vegetation, Soil, or Hydrology naturally			needed, explain any answe				
SUMMARY OF FINDINGS – Attach site map show							
Hydrophytic Vegetation Present? Yes ✓ No							
Hydric Soil Present? Yes No ✓		Is the Sample within a Wetla		No ✓			
Wetland Hydrology Present? Yes No✓		within a well	and? res	NO <u>V</u>			
Remarks:							
Area mapped as wetland by SSHCP							
VEGETATION – Use scientific names of plants.							
	ute Domi	nant Indicator	Dominance Test work	sheet:			
		ies? Status	Number of Dominant S				
1			That Are OBL, FACW,	or FAC: (A)			
2			Total Number of Domin				
3			Species Across All Stra	ata: <u>2</u> (B)			
	) = Tota		Percent of Dominant Sp That Are OBL, FACW,				
Sapling/Shrub Stratum (Plot size:)							
1			Prevalence Index wor				
2				Multiply by:			
3			=	x 1 =			
4			<sup>-</sup>	x 2 = x 3 =			
5	= Tota		-	x 4 =			
Herb Stratum (Plot size: 1m x 1m )		00101	· ·	x 5 =			
1. Hordeum marinum 30	<u> Y</u>	FAC		(A)(B)			
2. <u>Festuca perennis</u> 20		FAC	-	D/A			
3. <u>bromus diandrus</u> 5			-	= B/A =			
4. Avena sp 5			Hydrophytic Vegetation ✓ Dominance Test is				
5			Prevalence Index is				
6			=	ptations <sup>1</sup> (Provide supporting			
8			data in Remarks	s or on a separate sheet)			
	0 = Tota		Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)			
Woody Vine Stratum (Plot size:)			4				
1			Indicators of hydric soi be present, unless distu	il and wetland hydrology must			
2			-				
	) = Tota		Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 40	ic Crust	0	Present? Ye	s No			
Remarks:							
Change in vegetation cover/ composition							

Profile Description: (Describe to the depth	needed to document the indicator or o	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> L	_oc <sup>2</sup> Texture Remarks
0-3 7.5 YR 2.5/2 100		Sandy Sil
· · · · · · · ·		
		<del></del>
1		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=R		
Hydric Soil Indicators: (Applicable to all Li		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
<ul><li>Histic Epipedon (A2)</li><li>Black Histic (A3)</li></ul>	Stripped Matrix (S6) Loamy Mucky Mineral (F1)	2 cm Muck (A10) ( <b>LRR B</b> ) Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) ( <b>LRR D</b> )	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Clay	<u></u>	
Depth (inches): 3	<u> </u>	Hydric Soil Present? Yes No✓
Remarks:		·
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required;	****	Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)		ing Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled S	· · · —
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:	,	
	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
	o Depth (inches):	Wetland Hydrology Present? Yes No✓
(includes capillary fringe)  Describe Recorded Data (stream gauge, mon	itoring well perial photos, provious inches	tions) if available:
Describe Necorded Data (stream gauge, mon	noring well, aerial priotos, previous inspec	bliolis), il avallable.
Devente		
Remarks:		

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>r:</sub> <u>Sacramer</u>	nto County	Sampling Date:11/9/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 114
Investigator(s): A, Sennett and A. Crawford	{	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	ange 7E / Section 10
Landform (hillslope, terrace, etc.): Flat/slight topo		Local relief	f (concave, c	convex, none): flat/non	e Slope (%):0
Subregion (LRR):					
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent					
Are climatic / hydrologic conditions on the site typical for this ti					
Are Vegetation _ ✓ , Soil, or Hydrology sign					
Are Vegetation ✓, Soil, or Hydrology nati				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map sh					
				<u> </u>	<u> </u>
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _			ne Sampled		,
Wetland Hydrology Present? Yes No		with	in a Wetlan	id? Yes	No <u>√</u>
Remarks:					
Upland area in northern portion of site- map	ped by	SSHCP	as poten	tial wetland	
oprana and minor and map	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		обросо		
VEGETATION – Use scientific names of plants					
		Dominant	Indicator	Dominance Test work	rshoot:
			Status	Number of Dominant S	
1					or FAC: (A)
2				Total Number of Domin	nant
3				Species Across All Stra	ata: <u>2</u> (B)
4				Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)		= Total Co	over	That Are OBL, FACW,	or FAC:100 (A/B)
1				Prevalence Index wor	ksheet:
2				Total % Cover of:	Multiply by:
3					x 1 =
4					x 2 =
5				*	x 3 =
Herb Stratum (Plot size: 5m x 5m )		= Total Co	over		x 4 = x 5 =
1. Hordeum marinum	25	Υ	FAC		(A) (B)
2. <u>Festuca perennis</u>		Y	FAC	Column Totals.	(7) (2)
3. Bromus diandrus	5	N	<u>NL</u>		c = B/A =
4. Avena sp.	5	N	NL_	Hydrophytic Vegetation	
5				✓ Dominance Test is	
6				Prevalence Index i	is ≤3.0° aptations¹ (Provide supporting
7				Morphological Ada data in Remark	is or on a separate sheet)
8		= Total Co		Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		= 10(a) 00	vei		
1					il and wetland hydrology must
2				be present, unless distr	
-	0	= Total Co	over	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 40 % Cover of	f Biotic Cr	ust(	)		es No
Remarks:					
Grazing					

Profile Description: (Describe	to the depth ne	eded to docum	ent the ind	licator or co	onfirm t	he absence of indicators.)
Depth <u>Matrix</u>			Features	_ 1	2	_
(inches) Color (moist)		olor (moist)	%	Type <sup>1</sup> Lo	oc <sup>2</sup>	Texture Remarks
0-3 7.5 YR 2.5/2	100					Sandy Sil <mark>a</mark>
		_				
<sup>1</sup> Type: C=Concentration, D=Dep					nd Graii	
Hydric Soil Indicators: (Applic				.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	_	_ Sandy Redo				1 cm Muck (A9) ( <b>LRR C</b> )
Histic Epipedon (A2)	_	_ Stripped Ma		-4\		2 cm Muck (A10) ( <b>LRR B</b> )
Black Histic (A3)	_	Loamy Muck				Reduced Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gley		2)		Red Parent Material (TF2)
Stratified Layers (A5) (LRR of the description o	_	_ Depleted Ma _ Redox Dark	, ,	•\		Other (Explain in Remarks)
Depleted Below Dark Surface	_ (Δ11)	Redox Dark _ Depleted Da	,	•		
Thick Dark Surface (A12)		Redox Depr				<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	_	Vernal Pools	, ,	,		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	_		, (. 0)			unless disturbed or problematic.
Restrictive Layer (if present):						
Type: Clay						
Depth (inches): 3						Hydric Soil Present? Yes No✓
Remarks:	-					
remarks.						
HYDROLOGY						
Wetland Hydrology Indicators:	:					
Primary Indicators (minimum of o		ck all that apply	·)			Secondary Indicators (2 or more required)
Surface Water (A1)	•	Salt Crust (				Water Marks (B1) (Riverine)
High Water Table (A2)	•	Biotic Crus				Sediment Deposits (B2) (Riverine)
Saturation (A3)	•	Aquatic Inv		B13)		Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriver		Hydrogen S				Drainage Patterns (B10)
Sediment Deposits (B2) (No					a Poots	(C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonrive		Presence of	•		g ixoots	Crayfish Burrows (C8)
Surface Soil Cracks (B6)		Recent Iron			lc (C6)	Saturation Visible on Aerial Imagery (C9)
	•	<del></del> '			15 (CO)	
Inundation Visible on Aerial		Thin Muck				Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Other (Exp	iain in Rema	arks)		FAC-Neutral Test (D5)
Field Observations:	,	1 5 11 11				
	'es No					
	'es No					
	'es No	✓ Depth (inc	hes):		Wetlan	nd Hydrology Present? Yes No✓
(includes capillary fringe)  Describe Recorded Data (stream	n daude monitorii	na well periol n	hotos previ	inus inspecti	ione\ if	available:
Describe Necorded Data (Stiedii	i gauge, momon	ng wen, aenai p	notos, previ	ious mapecti	ono), il e	avallabic.
Remarks:						

Project/Site: Sloughhouse Solar Energy Project	C	city/County:	Sacramer	nto County	Sampling Date: 1	1/9/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	115
Investigator(s): A, Sennett and A. Crawford	§	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 10	0
Landform (hillslope, terrace, etc.): Flatlands	I	Local relief	(concave, c	convex, none): None	Slope	(%): <u>0</u>
Subregion (LRR): L	_at: 38.4	8118032		Long: -121.1890988	Datum:	WGS84
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent s						
Are climatic / hydrologic conditions on the site typical for this tin						
Are Vegetation, Soil, or Hydrology signi						No <b>√</b>
Are Vegetation ✓, Soil, or Hydrology natu				eded, explain any answe		
SUMMARY OF FINDINGS – Attach site map she						ures, etc.
		<u> </u>	-	,	<u> </u>	,
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _		Is the	e Sampled		_	
Wetland Hydrology Present? Yes No		with	in a Wetlan	d? Yes	No <u>√</u>	
Remarks:	<del></del> _					
Upland area in northern portion of site. Map	ned as	wetland	hv SSH	∩p		
opialia area in northern portion of site. Map	pcu us	wettane	3 by 55110	C1 .		
VECETATION Line coientific names of plants						
VEGETATION – Use scientific names of plants.		Dominant	Indicator	Dominance Test work	rehoot:	
		Species?		Number of Dominant S		
1				That Are OBL, FACW,		(A)
2				Total Number of Domin	ant	
3				Species Across All Stra		(B)
4				Percent of Dominant Sp	pecies	
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW,	or FAC:100_	(A/B)
1				Prevalence Index wor	ksheet:	
2				Total % Cover of:	Multiply by	y:
3				OBL species	x 1 =	
4				FACW species		
5				FAC species		
Herb Stratum (Plot size: 5m x 5m )		= Total Co	ver	FACU species		
1. Hordeum marinum	25	Υ	FAC	UPL species		
2. Festuca perennis		Υ	FAC	Column Totals:	(A)	(D)
3. Bromus diandrus	5	N	NL	Prevalence Index	= B/A =	
4. Avena sp.	5	N	NL	Hydrophytic Vegetation		
5				✓ Dominance Test is		
6				Prevalence Index is		
7				Morphological Ada data in Remarks	ptations <sup>1</sup> (Provide sups or on a separate she	oporting eet)
8				Problematic Hydro	phytic Vegetation <sup>1</sup> (Ex	xplain)
Woody Vine Stratum (Plot size:)	00	= Total Co	ver			
1				<sup>1</sup> Indicators of hydric soi		gy must
2			-	be present, unless distu	irbed or problematic.	
_	0	= Total Co	ver	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 40	Biotic Cr	ust0	<u> </u>		s <u>√</u> No	_
Remarks:						
Grazing						
0						

	cription: (Describe	to the dept				or confiri	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features  %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 2.5/2	100					Sandy Sil	
<u> </u>	7.5 11(2.5)2	100					Sarray Silia	
		_						
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion. RM=	Reduced Matrix. C	S=Covered	or Coate	ed Sand G	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
	Indicators: (Applic							or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Mu	ick (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
Black Hi	istic (A3)		Loamy Mud	ky Mineral	(F1)		Reduced	d Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Par	ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M	` ,			Other (E	xplain in Remarks)
	uck (A9) ( <b>LRR D</b> )	(8.4.4)	Redox Darl	•	•			
	d Below Dark Surfac	ce (A11)	Depleted D				31 12 1	Character to a second control of
	ark Surface (A12)  Mucky Mineral (S1)		Redox Dep Vernal Poo		-8)			f hydrophytic vegetation and ydrology must be present,
	Gleyed Matrix (S4)		veillai F00	is (F9)				turbed or problematic.
	Layer (if present):							tarboa or problematic.
Type: Cla								
	ches): <u>3</u>						Hydric Soil P	Present? Yes No ✓
Remarks:	,							
HYDROLO								
-	drology Indicators							
Primary India	cators (minimum of o	one required	; check all that app	y)			<u>Second</u>	ary Indicators (2 or more required)
_	Water (A1)		Salt Crust	,				iter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Sec	diment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic In	vertebrates	s (B13)		Drif	ft Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen	Sulfide Oc	for (C1)		Dra	ainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)			_	_		-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	on in Tille	d Soils (C	· —	turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B7						allow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in Re	marks)		FA	C-Neutral Test (D5)
Field Obser			,					
Surface Wat			No <u>✓</u> Depth (in					
Water Table			No <u>√</u> Depth (in					
Saturation P		/es N	No <u>✓</u> Depth (in	ches):		Wet	land Hydrology	Present? Yes No✓
(includes cap Describe Re	pillary fringe) corded Data (strean	n daude mo	nitoring well aerial	nhotos pre	evious ins	nections)	if available:	
Doddingo iko	oordod Bala (olrodii	r gaago, mo	rittoring won, donar	priotoo, pri	3 V 10 GO 11 10	poduorio	, ii availabio.	
Remarks:								
. torriarno.								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>y:</sub> Sacrame	nto County	_ Sampling Date: _	11/9/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point: _	116
Investigator(s): A, Sennett, A. Crawford		Section, To	ownship, Ra	nge: <u>Township 7N / R</u>	ange 7E / Section	n 10
Landform (hillslope, terrace, etc.): Flat		Local relie	f (concave,	convex, none): Concave	e Slo	oe (%):0
Subregion (LRR):						
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology signature.				"Normal Circumstances"		<b>/</b> No
Are Vegetation, Soil, or Hydrology na				eded, explain any answ		<u> </u>
SUMMARY OF FINDINGS – Attach site map s						atures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes  ✓ No  No  Remarks:			he Sampled		/ No	
Associated Feature: VP-5 Vernal pool located in the NE portion of the	nroiect	site: NIM	/I Classifi	ration: PURFy - Fre	eshwater Pond	
		3110, 144	VI Classiiii	Cation. FOBIX - TTE	- Silwater Folia	
VEGETATION – Use scientific names of plant						
1		Species?		Number of Dominant S That Are OBL, FACW,	Species	(A)
2				Total Number of Domi Species Across All Str		(B)
4	0			Percent of Dominant S That Are OBL, FACW,		0 (A/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index wo	rksheet:	
2.				Total % Cover of:		y by:
3.				OBL species		
4				FACW species	x 2 =	
5				FAC species	x 3 =	
		= Total Co	over	FACU species		
Herb Stratum (Plot size: 5m x 5m )	10	V	EAC\A/	UPL species		
Polypogon monspeliensis     Polygonum aviculare		Y	FACW FAC	Column Totals:	(A)	(B)
Festuca perennis	10	Y	FAC	Prevalence Inde	x = B/A =	
4. Hordeum marinum	10	Y	FAC	Hydrophytic Vegetat		
5. Carduus pycnocephalus	5	N	NL	✓ Dominance Test is		
6. Xanthium strumarium		N	FAC	Prevalence Index	is ≤3.0 <sup>1</sup>	
7. Erigeron canadensis		N	FAC		aptations <sup>1</sup> (Provide	
8					ks or on a separate	•
	50	= Total Co	over	Problematic Hydro	opnytic vegetation	(Explain)
Woody Vine Stratum (Plot size:)  1  2				<sup>1</sup> Indicators of hydric so be present, unless dis		
2.		= Total Co	over	Hydrophytic		
% Bare Ground in Herb Stratum 30 % Cover	of Biotic C		20	Vegetation	es <u>√</u> No _	
Remarks:				•		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			<u>Featur</u>	4	. 2	<b>-</b> .	5
(inches)	Color (moist)	%	Color (moist)	%	Type'	<u>Loc<sup>2</sup></u>	<u>Texture</u>	Remarks
0-3	7.5 YR 3/1	92	5 yr 5/6	8	C	M/PL	Silty clay	
	-							· -
	-							
¹Type: C=C	oncentration D=Der	oletion RM	=Reduced Matrix, CS	=Cover	ed or Coate	ed Sand Gr	rains <sup>2</sup> l o	ocation: PL=Pore Lining, M=Matrix.
			I LRRs, unless other					s for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redo		,		1 cm	Muck (A9) (LRR C)
	pipedon (A2)		Stripped Ma					Muck (A10) (LRR B)
	istic (A3)		Loamy Muck	ky Miner	al (F1)		Redu	ced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matri	x (F2)		Red F	Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted Ma				Other	(Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		<u>✓</u> Redox Dark		` '			
	d Below Dark Surfac	e (A11)	Depleted Da		, ,		31	- of hoolean horse consiste San and
	ark Surface (A12)  Mucky Mineral (S1)		✓ Redox Depression Vernal Pools		(F8)			s of hydrophytic vegetation and I hydrology must be present,
	Gleyed Matrix (S4)		vernai Pools	s (F9)				disturbed or problematic.
	Layer (if present):						dilicos (	distarbed of problematic.
Type: Cl								
	ches): <u>3</u>						Hydric Soi	il Present? Yes √ No
Remarks:	01100). <u>0</u>						11,411.000	<u></u>
rtomarks.								
HYDROLO								
Wetland Hy	drology Indicators:	:						
Primary Indi	cators (minimum of o	one require	ed; check all that apply	<u>')</u>			<u>Seco</u>	ondary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (	(B11)			\	Water Marks (B1) ( <b>Riverine</b> )
High Wa	ater Table (A2)		Biotic Crus	t (B12)			\$	Sediment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic Inv	ertebrat	es (B13)		[	Drift Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	rine)	Hydrogen S	Sulfide C	Odor (C1)		[	Drainage Patterns (B10)
Sedime	nt Deposits (B2) (No	nriverine)	✓ Oxidized R	hizosph	eres along	Living Roo	ots (C3) [	Dry-Season Water Table (C2)
Drift De	posits (B3) (Nonrive	rine)	Presence of	of Reduc	ced Iron (C	4)	_ (	Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron	n Reduc	tion in Tille	ed Soils (C6	S) S	Saturation Visible on Aerial Imagery (C9)
✓ Inundation	on Visible on Aerial	Imagery (E	37) Thin Muck	Surface	(C7)			Shallow Aquitard (D3)
	Stained Leaves (B9)		Other (Exp	lain in R	temarks)		<u> </u>	FAC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	ter Present?	'es	No <u>✓</u> Depth (inc	hes):		_		
Water Table	Present?	'es	No ✓ Depth (inc	:hes):				
Saturation P		'es	No <u>✓</u> Depth (inc	:hes):		Wetl	and Hydrolog	gy Present? Yes <u>√</u> No
	pillary fringe)	n dalide m	onitoring well, aerial p	hotos r	revious in	enactions)	if available:	
Describe Ne	corded Data (Stream	i gauge, iii	oriitoring well, aerial p	110105, p	nevious ins	spections),	ii avaliable.	
Domorko:								
Remarks:		_	_					
An earth	en berm prevei	nts feat	ure from overflo	wing	into swa	ale dowr	nslope. Fea	ature collects runoff
surround	ing hills and ro	adway t	o the south					

Project/Site: Sloughhouse Solar Energy Project	(	City/County	Sacrame	nto County	Sampling Date: _	11/9/2020	
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: _	117	
Investigator(s): A, Sennett, A.Crawford	;	Section, To	wnship, Ra	nge: <u>Township 7N / Ra</u>	nge 7E / Section	10	
Landform (hillslope, terrace, etc.): Flatland		Local relief	(concave,	e, convex, none): flat Slope (%): 0			
Subregion (LRR):							
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent							
Are climatic / hydrologic conditions on the site typical for this ti							
Are Vegetation, Soil, or Hydrology sign				Normal Circumstances" p		<b>/</b> No	
Are Vegetation, Soil, or Hydrology natu				eded, explain any answe			
SUMMARY OF FINDINGS – Attach site map sh			,		,	atures, etc.	
Hydrophytic Vegetation Present? Yes No _			e Sampled	·	· •	,	
Hydric Soil Present? Yes No _			in a Wetlar		No		
Wetland Hydrology Present? Yes No _							
Remarks:							
Associated Feature: VP-5	ablaga (	of plant o	nacios N	IM/I classification, DI	IDEN Frachus	star Dand	
Edge of vernal pool containing a different assen	nbiage	or plant s	pecies. N	IWI classification: Pt	JBFX - Freshwa	ater Pond	
VEGETATION – Use scientific names of plants							
	Absolute	Dominant Species?		Dominance Test work			
1				Number of Dominant Sport That Are OBL, FACW, or		(A)	
2.						(/ //	
3.				Total Number of Domin Species Across All Stra		(B)	
4				Percent of Dominant Sp			
-	0	= Total Co	ver	That Are OBL, FACW,		0 (A/B)	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor	kshoot:		
1				Total % Cover of:		/ bv:	
3.				OBL species			
4.				FACW species			
5				FAC species	x 3 =		
_		= Total Co	ver	FACU species			
Herb Stratum (Plot size: 5m x 5m )	70	V	EAC	UPL species			
Festuca perennis     Hordeum marinum			FAC FAC	Column Totals:	(A)	(B)	
Polypogon monspeliensis			FACW	Prevalence Index	= B/A =		
4. Rumex crispus	_			Hydrophytic Vegetation			
5				✓ Dominance Test is	>50%		
6				Prevalence Index is			
7				Morphological Ada	ptations <sup>1</sup> (Provide s or on a separate		
8				Problematic Hydro		,	
Woody Vine Stratum (Plot size:)	105	= Total Co	ver	r robiematio r iyaro	priytic vegetation	(Explair)	
1				<sup>1</sup> Indicators of hydric soi	I and wetland hydr	ology must	
2.				be present, unless distu	urbed or problemat	tic.	
		= Total Co		Hydrophytic			
% Bare Ground in Herb Stratum0	f Biotic Cr	ust C	)	Vegetation Present? Yes	s√ No		
Remarks:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- =-		10.			
1							

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the i	indicator	or confirm	the absence of i	ndicators.)
Depth	Matrix			ox Feature	1	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/1	95	5 YR 5/6	_ 5	<u>C</u>	PL	Silty clay	
	-	· ——						
	-				· <del></del>			
								<u>-</u>
1Typo: C-C	oncentration, D=Dep	lotion PM-	-Poducod Matrix C	S-Covered	d or Coate	nd Sand Gr	rains <sup>2</sup> l acatio	on: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					d Sand Gi		Problematic Hydric Soils <sup>3</sup> :
Histosol		abic to all	Sandy Red		cu.,			(A9) (LRR C)
_	oipedon (A2)		Stripped M					(A3) (LRR B)
Black Hi			Loamy Mud		l (F1)			Vertic (F18)
	en Sulfide (A4)		Loamy Gle					nt Material (TF2)
	d Layers (A5) ( <b>LRR</b> (	C)	Depleted M		(/			plain in Remarks)
	ick (A9) ( <b>LRR D</b> )	,	✓ Redox Dar	, ,	(F6)		` '	,
Depleted	d Below Dark Surfac	e (A11)	Depleted D	ark Surfac	e (F7)			
Thick Da	ark Surface (A12)		✓ Redox Dep	ressions (	F8)		<sup>3</sup> Indicators of h	ydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland hyd	rology must be present,
	Sleyed Matrix (S4)						unless distu	rbed or problematic.
Restrictive I	Layer (if present):							
Type: <u>Cla</u>	ay							
Depth (inc	ches): <u>3</u>						Hydric Soil Pre	esent? Yes <u>√</u> No
Remarks:								
HYDROLO	GV							
	drology Indicators:							
				1			Casandan	
	cators (minimum of c	ne required	• • • • • • • • • • • • • • • • • • • •	**				y Indicators (2 or more required)
Surface	( )		Salt Crust	` '				r Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru		(5.40)			ment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic In					Deposits (B3) (Riverine)
· <del></del>	larks (B1) (Nonriver	•	Hydrogen		. ,			age Patterns (B10)
	nt Deposits (B2) (No		✓ Oxidized I		_	•		Season Water Table (C2)
	oosits (B3) (Nonrive	rine)	Presence		•	•		fish Burrows (C8)
· <del></del>	Soil Cracks (B6)					d Soils (C6	· —	ration Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial	magery (B	. —					ow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FAC-	Neutral Test (D5)
Field Obser	vations:							
Surface Water	er Present? Y	es	No <u>✓</u> Depth (in	nches):				
Water Table	Present? Y	es	No <u>√</u> Depth (in	nches):		_		
Saturation P	resent? Y	es	No <u>√</u> Depth (in	nches):		Wetla	and Hydrology Pr	resent? Yes <u>√</u> No
(includes cap	oillary fringe)							
Describe Re	corded Data (stream	gauge, mo	onitoring well, aerial	photos, pr	evious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	c	City/County:	Sacramei	nto County	Sampling Date: 11/9/2020			
					Sampling Point: 119			
Investigator(s): A, Sennett and A. Crawford								
Landform (hillslope, terrace, etc.): Flatlands				_				
Subregion (LRR):								
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent s								
Are climatic / hydrologic conditions on the site typical for this tir								
Are Vegetation, Soil, or Hydrology✓ _ sign					present? Yes No✓			
Are Vegetation, Soil, or Hydrology natu								
SUMMARY OF FINDINGS – Attach site map sh								
			<b>5</b>   <b>1</b>	-, <b>p</b>				
Hydrophytic Vegetation Present? Yes ✓ No _		Is the	e Sampled	Area				
Hydric Soil Present? Yes   ✓ No   Wetland Hydrology Present? Yes  ✓ No		withi	n a Wetlan	nd? Yes <u>v</u>	/ No			
Remarks:								
SWS that amptios into an ag ditch in the part	horn n	ortion o	f tha pr	niact cita				
SWS that empties into an ag ditch in the nort	летт р	or tion o	i the pro	ojeci site				
VEGETATION – Use scientific names of plants.								
		Dominant Species?		Dominance Test wor				
1				Number of Dominant S	Species , or FAC:3(A)			
2								
3.				Total Number of Domi Species Across All Str				
4								
_	0	= Total Cov	/er	Percent of Dominant S That Are OBL, FACW,	or FAC:100 (A/B)			
Sapling/Shrub Stratum (Plot size:)								
1				Prevalence Index wo	Multiply by:			
2					x 1 =			
4				-	x 2 =			
5					x 3 =			
		= Total Cov	/er	FACU species	x 4 =			
Herb Stratum (Plot size: 1m x 1m)				UPL species	x 5 =			
1. Polypogon monspeliensis	15	Y	FACW	Column Totals:	(A) (B)			
Hordeum marinum     Festuca perennis	<u>20</u> 20	<u> Ү</u>	FAC	Prevalence Inde	x = B/A =			
4 Malus as a wift sus	_	<u>T</u>	FAC NL	Hydrophytic Vegetati				
IMaiva parvitiora     Bromus hordeaceus	Г	N N	FACU	✓ Dominance Test is				
6. Erigeron canadensis		N	FACU	Prevalence Index				
7. Polygonum aviculare		N	FAC	Morphological Ada	aptations <sup>1</sup> (Provide supporting			
8					ks or on a separate sheet)			
_	75	= Total Cov	/er	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)			
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of budgio as	oil and wetland hydrology must			
1				be present, unless dis				
2		= Total Cov	·or	Hydrophytic				
_				Vegetation	,			
% Bare Ground in Herb Stratum25	Biotic Cr	ust0		Present? Yo	es No			
Remarks:								
Grazing								

SOIL	Sampling Point:	119

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox	c Feature		. 2	<b>-</b> .	5
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	7.5YR3/1	95	5 YR 4/6	5	C	M	Clay	
					_			
				-	_			
	-							
¹Type: C=C	oncentration D=Der	letion RM	=Reduced Matrix, CS	=Covere	ed or Coate	ed Sand G	rains <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
			LRRs, unless other			<u> </u>		for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redo		,		1 cm M	luck (A9) (LRR C)
	pipedon (A2)		Stripped Ma					luck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Muck					ed Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matri	x (F2)		Red Pa	arent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted Ma	. ,			Other (	Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dark		` '			
	d Below Dark Surfac	e (A11)	Depleted Da		, ,		31 12 1	Charles the Consensus Consensus
	ark Surface (A12)  Mucky Mineral (S1)		Redox Depr Vernal Pools		(F8)			of hydrophytic vegetation and hydrology must be present,
	Gleyed Matrix (S4)		vernai Pools	s (F9)				sturbed or problematic.
	Layer (if present):						dilicoo di	starbed or problematio.
Type: Cl								
	ches): <u>4</u>						Hydric Soil	Present? Yes ✓ No
Remarks:	01100). <u> </u>						,	1000mi 100 <u>-v</u> 110 <u></u>
rtomanto.								
HYDROLO								
Wetland Hy	drology Indicators:							
Primary Indi	cators (minimum of o	one require	d; check all that apply	/)			Secon	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			W	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Crus	t (B12)			Se	ediment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic Inv	ertebrat	es (B13)		Dr	rift Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonriver	rine)	Hydrogen S	Sulfide C	Odor (C1)		Dr	rainage Patterns (B10)
Sedime	nt Deposits (B2) (No	nriverine)	Oxidized R	hizosph	eres along	Living Roo	ots (C3) Dr	ry-Season Water Table (C2)
Drift De	posits (B3) (Nonrive	rine)	Presence of	of Reduc	ed Iron (C	4)	Cı	rayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron	n Reduc	tion in Tille	ed Soils (Co	6) Sa	aturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (E						nallow Aquitard (D3)
	Stained Leaves (B9)		Other (Exp	lain in R	emarks)		F/	AC-Neutral Test (D5)
Field Obser								
Surface Wat	ter Present? Y	'es	No <u>✓</u> Depth (inc	hes):				
Water Table	Present?	'es	No <u>✓</u> Depth (inc	:hes):				
Saturation P		'es	No <u>✓</u> Depth (inc	:hes):		Wetl	land Hydrology	Present? Yes No
	pillary fringe)	n dalido m	onitoring well, aerial p	hotos n	rovious in	epoctions)	if available:	
Describe Ne	corded Data (Stream	i gauge, iii	ornitoring well, aerial p	ποιος, ρ	nevious ins	spections),	, ii avallable.	
Domorko:								
Remarks:						_		_
Feature r	nay receive see	epage fr	om adjacent VP	, but a	ın earth	en bern	n prevents s	surface water connection.
Feature o	ould receive or	ver flow	from ditch to n	orth				

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date: 11/10/2020		
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 121
Investigator(s): A. Godinho and A. Crawford  Section, Township, Range: Township 7N / Range 7E / Section 11			
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 2			
Subregion (LRR): Lat: <u>3</u>	38.47156088	Long: -121.1839688	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slope			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)			
Are Vegetation ✓, Soil, or Hydrology ✓ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No			
Are Vegetation, Soil, or Hydrology naturally		eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing		ocations, transects	, important leatures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wes   Yes   No   Yes   No   No   Wetland Hydrology Present?  Yes   No   Remarks:	within a Wetla	_	No
Associated feature: VP06 Heavily grazed. Adjacent to unpaved access road.			
, , , , ,			
VEGETATION – Use scientific names of plants.	to Denning at Indicator	Daminanaa Taat wank	ala a st
Tree Stratum (Plot size:)	er Species? Status	Number of Dominant Sp That Are OBL, FACW, of	pecies
2		Total Number of Domina	
3		Species Across All Stra	ta: <u>2</u> (B)
4	= Total Cover	Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, o	or FAC:100 (A/B)
1		Prevalence Index worl	
2			Multiply by:
3			x 1 =
4			x 2 =
5	Total Cause		x 3 = x 4 =
Herb Stratum (Plot size: 5m x 5m )	= Total Cover		x 5 =
1. Hordeum marinum 45	Y FAC		(A) (B)
2. Festuca perennis 45	Y FAC		
3. Rumex dentatus 5	N FACW		= B/A =
4		Hydrophytic Vegetation	
5		✓ Dominance Test is	
6		Prevalence Index is	s ≤3.0° ptations¹ (Provide supporting
7			s or on a separate sheet)
8	= Total Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover		
1		<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must urbed or problematic.
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum5		Vegetation Present? Yes	s√ No
Remarks:			
Vegetation heavily grazed, unable to identify to species			
vegetation heavily grazed, unable to identify to	species		

Profile Desc	ription: (Describe	to the de	oth needed to docu	ment the	indicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			ox Feature			_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/2	98	7.5 YR 5/8	_ 2	_ <u>C</u>	PL	CL	
		-						
				_	-			
	-			_	-			
				_				
1Turner C. Co	naantration D Dan	lation DM	Dadwood Motrix C	C Covers	d or Coot		roine <sup>2</sup> l costio	n. Dl. Dara Lining M. Matrix
			I=Reduced Matrix, C: I LRRs, unless othe			eu Sanu G		n: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
Histosol		able to al			eu.)			•
	pipedon (A2)		Sandy Red Stripped Ma					(A9) (LRR C) (A10) (LRR B)
Black His			Loamy Muc	, ,	l (F1)		Reduced V	
	n Sulfide (A4)		Loamy Gle					t Material (TF2)
	Layers (A5) ( <b>LRR</b> (	C)	Depleted M		(1 =)			lain in Remarks)
	ck (A9) ( <b>LRR D</b> )	- /	✓ Redox Darl	, ,	(F6)			,
	Below Dark Surfac	e (A11)	Depleted D					
Thick Da	ark Surface (A12)		Redox Dep	ressions (	F8)		<sup>3</sup> Indicators of h	ydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland hydr	ology must be present,
	leyed Matrix (S4)						unless distur	bed or problematic.
	ayer (if present):							
Type: har	rd pan							
Depth (inc	ches): <u>4</u>						Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:								
HYDROLO	GY							
	drology Indicators:							
•			al abaab all that and	L A			0	. L. d'ant (20 and 20 a
		one require	ed; check all that app	•				/ Indicators (2 or more required)
Surface	` ,		Salt Crust	` '				Marks (B1) (Riverine)
_	ter Table (A2)		Biotic Cru		(= \			nent Deposits (B2) (Riverine)
Saturation			Aquatic In					Deposits (B3) (Riverine)
· · · · · · · · · · · · · · · · · · ·	arks (B1) ( <b>Nonriver</b>	•	Hydrogen		, ,			age Patterns (B10)
	t Deposits (B2) (No				-	_		eason Water Table (C2)
	oosits (B3) (Nonrive	rine)	Presence					sh Burrows (C8)
	Soil Cracks (B6)		Recent Iro			ed Soils (Co		ation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (E			` '			ow Aquitard (D3)
Water-St	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FAC-1	Neutral Test (D5)
Field Observ	vations:							
Surface Water	er Present? Y	'es	No <u>✓</u> Depth (in	iches):				
Water Table	Present? Y	'es	No <u>√</u> Depth (in	iches):				
Saturation Pr	esent? Y	'es	No <u>✓</u> Depth (in	iches):		Wetl	and Hydrology Pro	esent? Yes <u>√</u> No
(includes cap	illary fringe)							
Describe Red	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pr	evious in	spections),	if available:	
Remarks:								
Some cow	hoof punches	5						
33.11C COV	oor pariones	-						

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling	Date: 11/10/2020
Applicant/Owner: D.E. Shaw Renewable Investments	State: <u>CA</u> Sampling	Point: <u>122</u>
Investigator(s): A. Godinho and A. Crawford	Section, Township, Range: Township 7N / Range 7E / S	Section 11
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none): None	Slope (%):3
Subregion (LRR): Lat: _	38.47153264 Long: <u>TBD-121.1839118</u>	_ Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slop	NWI classification: n/a	I
Are climatic / hydrologic conditions on the site typical for this time or		
Are Vegetation, Soil, or Hydrology significan	tly disturbed? Are "Normal Circumstances" present?	res No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Rema	arks.)
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations, transects, import	ant features, etc.
Hydrophytic Vegetation Present? Yes No _✓  Hydric Soil Present? Yes _✓ No  Wetland Hydrology Present? Yes _✓ No  Remarks:	within a Wetland?	<u>✓</u>
Associated feature: VP-06		
VEGETATION – Use scientific names of plants.		
Absolu	te Dominant Indicator Dominance Test worksheet:	
	er Species? Status Number of Dominant Species	0 (4)
1		(A)
3	Total Number of Dominant	2 (B)
4	'	
0	= Total Cover That Are OBL, FACW, or FAC:	0 (A/B)
Sapling/Shrub Stratum (Plot size:)  1	Prevalence Index worksheet:	
2	— <del>— —                                  </del>	Multiply by:
3		
4.		
5		
0	= Total Cover FACU species 75 x 4	= 300
Herb Stratum (Plot size: 5m x 5m )	UPL species <u>25</u> x 5	= 125
1. Bromus hordeaceus 75	— Column rotals. <u>100</u> (A)	425 (B)
2. <u>Holocarpha virgata</u> 25		4.2
3		
4		ors:
5	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
6		Provide supporting
7	data in Remarks or on a se	eparate sheet)
	D = Total Cover Problematic Hydrophytic Veg	etation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	1	and building any accord
1	I be present unless disturbed or pr	
2	= Total Cover Hydrophytic	
% Bare Ground in Herb Stratum 0 % Cover of Bioti	Vegetation	No. ✓
Remarks:		

<sup>1</sup> Type: C=Conce  Hydric Soil Indi  Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	, don (A2) (A3) ulfide (A4)	etion, RM=F		10	Type <sup>1</sup> C	PL	Silty clay	Remarks
Type: C=Conce Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	entration, D=Deplicators: (Application) don (A2) (A3) ulfide (A4)	etion, RM=F	leduced Matrix, C				Silty Clay	
Hydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)							
lydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)							
Hydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)							
Hydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)							
Hydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)							
Hydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)							
Hydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)							
Hydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)							
Hydric Soil Indi Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	cators: (Applica ) don (A2) (A3) ulfide (A4)						2	
Histosol (A1 Histic Epiper Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	) don (A2) (A3) ulfide (A4)	able to all L	7/75, uniess om			d Sand Gr		n: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
Histic Epipe Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	, don (A2) (A3) ulfide (A4)				ea.)			•
Black Histic Hydrogen S Stratified La 1 cm Muck ( Depleted Be	(A3) ulfide (A4)		Sandy Re Stripped N					(A9) ( <b>LRR C</b> ) (A10) ( <b>LRR B</b> )
Hydrogen S Stratified La 1 cm Muck ( Depleted Be	ulfide (A4)			icky Minera	I (F1)			/ertic (F18)
Stratified La 1 cm Muck ( Depleted Be				eyed Matrix				nt Material (TF2)
1 cm Muck ( Depleted Be	yers (A5) ( <b>LRR C</b>	<b>;</b> )		Matrix (F3)	. –,		· · · · · · · · · · · · · · · · · · ·	plain in Remarks)
Depleted Be	(A9) ( <b>LRR D</b> )	,	✓ Redox Da		(F6)			-/
Thick Dark 9	low Dark Surface	e (A11)		Dark Surfac				
IIIION Dain C	Surface (A12)		Redox De	pressions (	F8)		<sup>3</sup> Indicators of h	ydrophytic vegetation and
	y Mineral (S1)		Vernal Po	ols (F9)				rology must be present,
	ed Matrix (S4)						unless distu	rbed or problematic.
Restrictive Laye								
Type: hard p			<del></del>					
Depth (inches	s): <u>2</u>						Hydric Soil Pre	esent? Yes <u>√</u> No
YDROLOGY	,							
	ogy Indicators:							
_	rs (minimum of o	ne required:	check all that an	alv)			Secondar	y Indicators (2 or more required)
Surface Wat	•	no required,	Salt Crus					r Marks (B1) (Riverine)
High Water	` '		Biotic Cr	` ,			· · · · · · · · · · · · · · · · · · ·	ment Deposits (B2) (Riverine)
riigh water Saturation (/			Aquatic I		e (R13)			Deposits (B3) (Riverine)
	s (B1) ( <b>Nonriveri</b>	ne)	Hydroge		, ,		<del></del>	age Patterns (B10)
<del></del>	eposits (B2) ( <b>Nor</b>	•	Nydrogel			Living Roo	<del></del>	Season Water Table (C2)
	ts (B3) (Nonriver			e of Reduce	_	_		ish Burrows (C8)
	Cracks (B6)	iiic)		ron Reducti				ration Visible on Aerial Imagery (C9
	isible on Aerial I	magery (B7)	<del></del>	ck Surface (		2 00110 (00	<del></del>	ow Aquitard (D3)
	ed Leaves (B9)	magory (Br)	· · · · · · · · · · · · · · · · · · ·	xplain in Re	,			Neutral Test (D5)
Field Observati	. ,							
Surface Water P		es No	o <u>√</u> Depth (i	nches):				
Water Table Pre			Depth (i					
Saturation Prese			Depth (i				and Hydrology Pr	resent? Yes <u>√</u> No
includes capillar		#S IN	Deptii (i	nches)		_   wella	ilia Hyarology Fi	esent: 1es
Describe Record	led Data (stream	gauge, mon	toring well, aeria	l photos, pr	evious ins	pections), i	f available:	
Damari								
Remarks:								
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	C	ity/County:	Sacramer	nto County	Sampling Date: _	11/10/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	123
Investigator(s): A. Godinho and A. Crawford	s	ection, Tov	vnship, Rar	nge: <u>Township 7N / Ra</u>	ange 7E / Section	า 10
Landform (hillslope, terrace, etc.): Hillslope	L	ocal relief	(concave, c	convex, none): None	Slo	pe (%): <u>3</u>
Subregion (LRR):	_at: 38.4	738393		Long: -121.1876265	Datu	m: WGS84
Soil Map Unit Name: <u>Hadselville-Pentz complex</u> , 2 - 30% s						
Are climatic / hydrologic conditions on the site typical for this tin						
Are Vegetation, Soil, or Hydrology sign						✓ No
Are Vegetation, Soil, or Hydrology natu						<u> </u>
						oturos ete
SUMMARY OF FINDINGS – Attach site map she		sampiing	g point ic	ocations, transects	i, important le	atures, etc.
Hydrophytic Vegetation Present? Yes No _	✓	Is the	e Sampled	Area		
Hydric Soil Present? Yes No			n a Wetlan		No <b>√</b>	
Wetland Hydrology Present? Yes <u>√</u> No _						<u> </u>
Remarks:						
Associated feature: VP 17						
<b>VEGETATION</b> – Use scientific names of plants.						
		Dominant		Dominance Test work		
1		Species?		Number of Dominant S That Are OBL, FACW,		(Δ)
2						(^)
3				Total Number of Domin Species Across All Stra		B (B)
4.						(=)
		= Total Cov		Percent of Dominant Space That Are OBL, FACW,		) (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor		
1				Total % Cover of:		v hv:
2				OBL species 0		
4				FACW species 0		
5				FAC species 10		
_	_	= Total Cov		FACU species 25	x 4 =	100
Herb Stratum (Plot size: 5m x 5m )	40	V		UPL species <u>65</u>	x 5 =	325
1. Elymus caput-medusae	40	Y	UPL	Column Totals:10	<u>)0                                    </u>	455 (B)
Bromus hordeaceus     Holocarpha virgata		<u>Ү</u> Ү	FACU UPL	Prevalence Index	x = B/A =4	.5
4. Festuca perennis	10	N	FAC	Hydrophytic Vegetation		
5				Dominance Test is		
6				Prevalence Index i		
7				Morphological Ada		
8					s or on a separate	•
	100 :	= Total Cov	/er	Problematic Hydro	pnytic vegetation	(Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	il and wetland hydr	rology must
1				be present, unless distr		
		= Total Cov	/er	Hydrophytic		
% Bare Ground in Herb Stratum 0				Vegetation	a Na	1
% Bare Ground in Herb Stratum 0	BIOUG CIT	JSI		Present? Ye	es No	<u>v</u>
Remarks.						

	cription: (Describe	to the dep				or confirm	n the absence of	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	<u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 3/2	98	7.5 YR 5/8	2	С	PL	Silty clay	
						·		
					<u> </u>			
				_				
	oncentration, D=Dep					ed Sand G		tion: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all			ted.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,				ck (A9) (LRR C)
	oipedon (A2) istic (A3)		Stripped M Loamy Mu		al (F1)			ck (A10) ( <b>LRR B</b> ) I Vertic (F18)
	en Sulfide (A4)		Loamy Gle					ent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N					xplain in Remarks)
1 cm Mu	uck (A9) ( <b>LRR D</b> )		✓ Redox Dar					
	d Below Dark Surfac	e (A11)	Depleted D				•	
	ark Surface (A12)		Redox Dep		(F8)			hydrophytic vegetation and
	Mucky Mineral (S1) Bleyed Matrix (S4)		Vernal Poo	ols (F9)				drology must be present, turbed or problematic.
	Layer (if present):						unless disi	urbed or problematic.
Type: ha								
Depth (in			<del></del>				Hydric Soil P	resent? Yes <u>√</u> No
Remarks:							1.,	
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one require	d; check all that app	oly)			Second	ary Indicators (2 or more required)
	Water (A1)		Salt Crus	t (B11)				ter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sec	diment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic Ir		` '		Drif	t Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b> i		Hydrogen					inage Patterns (B10)
	nt Deposits (B2) (No		<u>√</u> Oxidized		•	-		-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					yfish Burrows (C8)
	Soil Cracks (B6) on Visible on Aerial	Imagany (P		k Surface		ed Soils (Co		uration Visible on Aerial Imagery (C9) allow Aquitard (D3)
· · · · · · · · · · · · · · · · · · ·	stained Leaves (B9)	iiiageiy (b	•	plain in R				C-Neutral Test (D5)
Field Obser	( )		01101 (23	.piaiii iii ii	- Indirito)			5 (16utiai 166t (26)
Surface Wat		es/es	No <u>√</u> Depth (ir	nches):				
Water Table			No <u>√</u> Depth (ir					
Saturation P			No <u>✓</u> Depth (ir			l l	land Hydrology	Present? Yes √ No
(includes car	oillary fringe)						-	165 <u> </u>
Describe Re	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, p	revious ins	spections),	if available:	
Remarks:								<del></del>

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	nto County	Sampling Date:11/10/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 124
Investigator(s): A. Godinho and A. Crawford	Section, Township, Rai	nge: Township 7N / Ra	nge 7E / Section 10
Landform (hillslope, terrace, etc.): <u>basin</u>	Local relief (concave, o	convex, none): Concave	Slope (%):0
Subregion (LRR):	Lat: 38.4737167	Long: -121.1889743	Datum: WGS84
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology _ ✓ _s			resent? Yes No _✓
Are Vegetation ✓, Soil, or Hydrology n		eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map			
			, important reatures, etc.
Hydrophytic Vegetation Present? Yes No	□ √ Is the Sampled	Area	
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes✓ No		nd? Yes <u>√</u>	No
Remarks:	<u> </u>		
Associated Feature: P03			
Actively being graded during field visit PEM1Ah - Freshwater Emergent Wetland			
	<u> </u>		
VEGETATION – Use scientific names of plant	Absolute Dominant Indicator	Dominance Test work	shoot
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Sp	
1		That Are OBL, FACW, of	
2	· — — — —	Total Number of Domina	ant
3		Species Across All Stra	ta: (B)
4		Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, o	or FAC: (A/B)
1		Prevalence Index work	ksheet:
2		Total % Cover of:	Multiply by:
3	· —— ——		x 1 =
4			x 2 =
5	_	· ·	x 3 =
Herb Stratum (Plot size:)	= Total Cover		x 4 = x 5 =
1			(A) (B)
2			
3	· — — — —		= B/A =
4		Hydrophytic Vegetatio	
5		Dominance Test is Prevalence Index is	
6			otations <sup>1</sup> (Provide supporting
7			s or on a separate sheet)
0	= Total Cover	Problematic Hydror	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)			
1		'Indicators of hydric soil be present, unless distu	l and wetland hydrology must urbed or problematic.
2			
	= Total Cover	Hydrophytic Vegetation	
	of Biotic Crust0	Present? Yes	s No
Remarks:			
No vegetation.			

	atrix			x Feature		12	T	December
(inches) Color (moi		Coloi	r (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1 7.5 YR 4/4	100				- ——		SCL	
		_						
				- '				
	-			_		-	-	
<del></del>	_			-				-
					- ——		-	
<u> </u>		_			<u> </u>			
Type: C=Concentration, D						d Sand G		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (A	applicable to a				ea.)			s for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		· · · · · · · · · · · · · · · · · · ·	Sandy Red	. ,				Muck (A9) (LRR C)
Histic Epipedon (A2)			Stripped Ma Loamy Mud		J (E1)			Muck (A10) ( <b>LRR B</b> ) ced Vertic (F18)
Black Histic (A3) Hydrogen Sulfide (A4)			Loamy Gle	-	. ,			Parent Material (TF2)
Stratified Layers (A5) (I	I RR C)		Depleted M		(1 2)			(Explain in Remarks)
1 cm Muck (A9) ( <b>LRR I</b>			Redox Darl		(F6)		0.1101	(Explain in Nomano)
Depleted Below Dark S		· · · · · · · · · · · · · · · · · · ·	Depleted D		. ,			
Thick Dark Surface (A1			Redox Dep				<sup>3</sup> Indicators	s of hydrophytic vegetation and
Sandy Mucky Mineral (			Vernal Poo				wetland	I hydrology must be present,
Sandy Gleyed Matrix (S	S4)						unless	disturbed or problematic.
Restrictive Layer (if prese	ent):							
Type: hard pan/cobb	el							
Depth (inches): 1							Hydric Soi	il Present? Yes No _ ✓
							,	
	lric soils ha	s been {	graded a	way. Ba	asin has	been g		
Any evidence of hyd	lric soils ha	s been {	graded a	way. Ba	asin has	been g		
Any evidence of hyd		ıs been {	graded a	way. Ba	asin has	been g		
Any evidence of hyd YDROLOGY Wetland Hydrology Indica	ators:				asin has	been g	raded sev	eral feet down.
Any evidence of hyd YDROLOGY Wetland Hydrology Indica	ators:		all that appl	y)	asin has	been g	raded sev	eral feet down.
Any evidence of hyd  YDROLOGY  Wetland Hydrology Indicators (minimum  Surface Water (A1)	ators: m of one requi	red; check	all that appl	y) (B11)	asin has	been g	raded seve	eral feet down.  andary Indicators (2 or more required) Water Marks (B1) (Riverine)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2)	ators: m of one requi	red; check	all that appl Salt Crust Biotic Cru	(B11) st (B12)		been g	raded several	eral feet down.  endary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
Any evidence of hyd  YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimus  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	ators: m of one requil	red; check	all that appl Salt Crust Biotic Cru Aquatic In	y) (B11) st (B12) vertebrate	es (B13)	been g	Seco Seco S	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Any evidence of hyd  YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nor	ators: m of one requii nriverine)	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen	(B11) st (B12) vertebrate Sulfide O	es (B13) dor (C1)		Second Se	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Any evidence of hyd  IYDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nor  Sediment Deposits (B2)	ators: m of one requin nriverine)	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	(B11) st (B12) vertebrate Sulfide O Rhizosphe	es (B13) dor (C1) eres along	Living Roo	Seco Seco !	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Any evidence of hyd  IYDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nor  Sediment Deposits (B2)  Drift Deposits (B3) (No	ators: m of one requin nriverine) 2) (Nonriverine) nriverine)	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce	es (B13) dor (C1) eres along ed Iron (C4	Living Roo	Second Se	eral feet down.  Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
Any evidence of hyd  YDROLOGY  Wetland Hydrology Indicates  Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nor  Sediment Deposits (B2)  Drift Deposits (B3) (No  Surface Soil Cracks (B)	ators: m of one require nriverine) (2) (Nonriverine) nriverine) 6)	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce	es (B13) dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille	Living Roo	Second Several Second S	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Any evidence of hyd  YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimus  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nor  Sediment Deposits (B2)  Drift Deposits (B3) (No  Surface Soil Cracks (B)  Inundation Visible on A	nriverine) (Nonriverine) (nriverine) (nriverine) (nriverine) (nriverine)	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reduct	es (B13) dor (C1) eres along ed Iron (C4 ion in Tiller (C7)	Living Roo	Second Several Second Several Second	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (No Surface Soil Cracks (B) Inundation Visible on A Water-Stained Leaves	nriverine) (Nonriverine) (nriverine) (nriverine) (nriverine) (nriverine)	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reduct	es (B13) dor (C1) eres along ed Iron (C4 ion in Tiller (C7)	Living Roo	Second Several Second Several Second	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (No Surface Soil Cracks (B4) Inundation Visible on A4 Water-Stained Leaves Field Observations:	ators: m of one requirent priverine) (Nonriverine) nriverine) 6) herial Imagery (	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce on Reduct c Surface	es (B13) dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tiller (C7) emarks)	Living Roo I) d Soils (Co	Second Several Second Several Second	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Any evidence of hyd  IYDROLOGY  Wetland Hydrology Indicated Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Normal Sediment Deposits (B2)  Drift Deposits (B3) (Nomal Surface Soil Cracks (B4)  Inundation Visible on Amount Water-Stained Leaves  Field Observations:	ators: m of one require priverine) (c) (Nonriverine) (d) priverine) (e) priverine) (f) priverine) (g) priverine	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Roo	Second Several Second Several Second	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Any evidence of hyd  YDROLOGY  Wetland Hydrology Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Norent Sediment Deposits (B2)  Drift Deposits (B3) (Norent Surface Soil Cracks (B1)  Valued Inundation Visible on An Water-Stained Leaves  Field Observations:  Surface Water Present?	ators: m of one require priverine) (c) (Nonriverine) (d) priverine) (e) priverine) (f) priverine) (g) priverine	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Roo	Second Several Second Several Second	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indicators (minimumous Indicators (minimumous Indicators (minimumous Indicators (minimumous Indicators (minimumous Indicators (minimumous Indicators (minimumous Indicators (minimumous Indicators (Mater Indicators (Mater Indicators (Mater Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators Indicators (Mater Indicators (	ators: m of one require  priverine) (2) (Nonriverine) (6) perial Imagery ( (B9)  Yes Yes	red; check	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re ches): ches):	es (B13) dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille (C7) emarks)	Living Roo l) d Soils (Co	Second Several Second Several Second	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Any evidence of hyd  YDROLOGY  Wetland Hydrology Indicators (minimum of the content of the conte	ators: m of one require  priverine) (2) (Nonriverine) (6) perial Imagery ( (B9)  Yes Yes Yes Yes	(B7) No /_ No	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re ches): ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Roo	Second Several Several Several Second Several Second Secon	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Any evidence of hyd  IYDROLOGY  Wetland Hydrology Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Norent Sediment Deposits (B2)  Drift Deposits (B3) (Norent Surface Soil Cracks (Barrace Soil	ators: m of one require  priverine) (2) (Nonriverine) (6) perial Imagery ( (B9)  Yes Yes Yes Yes	(B7) No /_ No	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re ches): ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Roo	Second Several Several Several Second Several Second Secon	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor Sediment Deposits (B2) Drift Deposits (B3) (No Surface Soil Cracks (B) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	ators: m of one require  priverine) (2) (Nonriverine) (6) perial Imagery ( (B9)  Yes Yes Yes Yes	(B7) No /_ No	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re ches): ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Roo	Second Several Several Several Second Several Second Secon	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor) Sediment Deposits (B2) Drift Deposits (B3) (No) Surface Soil Cracks (B) ✓ Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	ators: m of one require  priverine) (2) (Nonriverine) (6) perial Imagery ( (B9)  Yes Yes Yes Yes	(B7) No /_ No	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re ches): ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Roo	Second Several Several Several Second Several Second Secon	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Any evidence of hyd  IYDROLOGY  Wetland Hydrology Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Norent Sediment Deposits (B2)  Drift Deposits (B3) (Norent Surface Soil Cracks (Barrace Soil	ators: m of one require  priverine) (2) (Nonriverine) (6) perial Imagery ( (B9)  Yes Yes Yes Yes	(B7) No /_ No	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re ches): ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Roo	Second Several Several Several Second Several Second Secon	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Any evidence of hyd  YDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nor) Sediment Deposits (B2) Drift Deposits (B3) (No) Surface Soil Cracks (B) Inundation Visible on A Water-Stained Leaves  Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	ators: m of one require  priverine) (2) (Nonriverine) (6) perial Imagery ( (B9)  Yes Yes Yes Yes	(B7) No /_ No	all that appl Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re ches): ches): ches):	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	Living Roo	Second Several Several Several Second Several Second Secon	eral feet down.  endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramen	to County	Sampling Date: 11/10/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 125
Investigator(s): A. Godinho and A. Crawford	Section, Township, Ran-	ge: <u>Township 7N / Ra</u>	nge 7E / Section 10
Landform (hillslope, terrace, etc.): Basin	Local relief (concave, co	onvex, none): Concave	Slope (%):2
Subregion (LRR): Lat: 38	.46948349	Long: -121.1929413	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slopes			
Are climatic / hydrologic conditions on the site typical for this time of year.			
Are Vegetation _ ✓ , Soil, or Hydrology _ ✓ significantly			
Are Vegetation, Soil, or Hydrology naturally pr		eded, explain any answer	
SUMMARY OF FINDINGS – Attach site map showing	sampling point to	cations, transects	important reatures, etc.
Hydrophytic Vegetation Present? Yes No		Area	
Hydric Soil Present? Yes No	within a Wetland		No <u>√</u>
Wetland Hydrology Present? Yes No✓ Remarks:			
Associated Feature: P-03			
VEGETATION – Use scientific names of plants.			
	Dominant Indicator Species? Status	Dominance Test works	
1		Number of Dominant Sp That Are OBL, FACW, of	
2.			
3		Total Number of Domina Species Across All Strat	
4		Percent of Dominant Sp	nacias
Conting/Chruh Stratum (Plat size)	_ = Total Cover		or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)  1		Prevalence Index work	sheet:
2			Multiply by:
3.			x 1 =
4.			x 2 =
5		FAC species	x 3 =
0	_ = Total Cover		x 4 =
Herb Stratum (Plot size: 5m x 5m )  1. Holocarpha virgata 10	Y UPL		x 5 =
2		Column Totals:	(A) (B)
3		Prevalence Index	= B/A =
4.	_	Hydrophytic Vegetatio	n Indicators:
5		Dominance Test is	
6		Prevalence Index is	
7			otations <sup>1</sup> (Provide supporting sor on a separate sheet)
8			phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	_ = Total Cover		my no regeration (=/pram)
1			and wetland hydrology must
2.		be present, unless distu	rbed or problematic.
	_ = Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum90	Crust 0	Vegetation Yes	s No <u>√</u> _
Remarks:			
Heavily grazed			
, 9.4264			

Profile Description: (Des	cribe to the depth	needed to docur	ment the indicator	or confirm	the absence of indicators.)	
	atrix		x Features		_	
(inches) Color (mo	<u>ist) % </u>	Color (moist)	%Type <sup>1</sup>	Loc <sup>2</sup>	Texture R	emarks
<u>0-2</u> <u>7.5 YR 3/4</u>	100				Silty clay	
			<del></del>			
<del></del>			·			
			<del></del>			
<sup>1</sup> Type: C=Concentration, [				d Sand Gra		
Hydric Soil Indicators: (A	Applicable to all Li				Indicators for Problematic	•
Histosol (A1)		Sandy Red			1 cm Muck (A9) ( <b>LRR</b> (	
Histic Epipedon (A2)		Stripped Ma			2 cm Muck (A10) ( <b>LRR</b>	( B)
Black Histic (A3)			ky Mineral (F1)		Reduced Vertic (F18)	F0)
Hydrogen Sulfide (A4)			/ed Matrix (F2)		Red Parent Material (T	,
Stratified Layers (A5) ( 1 cm Muck (A9) (LRR		Depleted M	atrix (F3) s Surface (F6)		Other (Explain in Rema	arks)
Depleted Below Dark S			ark Surface (F7)			
Thick Dark Surface (A	, ,		ressions (F8)		<sup>3</sup> Indicators of hydrophytic ve	egetation and
Sandy Mucky Mineral		Vernal Pool			wetland hydrology must b	
Sandy Gleyed Matrix (					unless disturbed or probl	•
Restrictive Layer (if pres						
Type: hard pan	•					
Depth (inches): 2		<del></del>			Hydric Soil Present? Yes	s No <u>√</u>
Remarks:		<del></del>			.,	
Nomano.						
HYDROLOGY						
Wetland Hydrology Indic	ators:					
Primary Indicators (minimu		check all that appl	v)		Secondary Indicators (	(2 or more required)
Surface Water (A1)		Salt Crust			Water Marks (B1)	· · · · · · · · · · · · · · · · · · ·
High Water Table (A2)		Biotic Crus			Sediment Deposit	
Saturation (A3)			vertebrates (B13)		Drift Deposits (B3)	
Water Marks (B1) ( <b>No</b>	nrivorino)		Sulfide Odor (C1)		Drainage Patterns	
Sediment Deposits (B2	•			Living Poot	s (C3) Dry-Season Wate	
Sediment Deposits (B3) (No		<del></del>		•	· · · —	, ,
Surface Soil Cracks (E	*		of Reduced Iron (C <sup>2</sup> on Reduction in Tille		Crayfish Burrows	
	,	<del></del>		3011S (CO)		on Aerial Imagery (C9)
Inundation Visible on A		Thin Muck			Shallow Aquitard	
Water-Stained Leaves	(B9)	Other (Exp	olain in Remarks)		FAC-Neutral Test	(D5)
Field Observations:		/				
Surface Water Present?			ches):			
Water Table Present?			ches):			
Saturation Present?	Yes No	o <u>✓</u> Depth (in	ches):	Wetla	nd Hydrology Present? Ye	s No_ <u>√</u>
(includes capillary fringe)  Describe Recorded Data (s	stream dauge mon	toring well serial	nhotos previous inc	nections) if	f available:	
Posonibe Neconded Data (S	sircam gauge, mon	tornig well, aerial	priotos, previous ilis	pecionaj, n	availabit.	
Damada						
Remarks:						

Project/Site: Sloughhouse Solar Energy Project	_ City/County: Sacrame	nto County	Sampling Date:11/10/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 126
Investigator(s): A. Godinho and A. Crawford	Section, Township, Rai	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Hilslope	Local relief (concave, o	convex, none): Convex	Slope (%):0
Subregion (LRR): Lat: 3	38.47171775	Long: -121.1862207	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slope			
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significan			oresent? Yes No
Are Vegetation, Soil, or Hydrology naturally		eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wes   ✓ No  Yes  ✓ No  Wetland Hydrology Present?  Remarks:	within a Wetlan		No
Associated feature:SW36 Saddle between 2 hills			
VEGETATION – Use scientific names of plants.	to Desired to Pertur	B	ali a ad
1	er Species? Status	Dominance Test work  Number of Dominant Sp That Are OBL, FACW, or	pecies
2		Total Number of Domin Species Across All Stra	
4	= Total Cover	Percent of Dominant Sp	pecies or FAC:5 (A/B)
Sapling/Shrub Stratum (Plot size:)			
1		Prevalence Index work	
2			Multiply by:
3			x 1 = <u>15</u> x 2 = <u>0</u>
4		FAC species 60	
5	= Total Cover		x 4 = 0
Herb Stratum (Plot size: 5m x 5m )	= Total Cover		x 5 = 0
1. Festuca perennis 60	Y FAC	Column Totals: 7!	
2. Eryngium castrense 15	Y OBL		
3			= B/A = <u>2.6</u>
4		Hydrophytic Vegetation	
5		Dominance Test is	
6		✓ Prevalence Index is	
7			ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8	= Total Cover		phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover		
1		<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum25		Vegetation	s No
Remarks:		l .	

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%Type	1   1   1   1   1   1   1   1   1   1	Texture	Remarks
0-4	10 YR 4/2		· ·				
<u>J-4</u>	10 YK 4/2	100		-		Silty clay	
	-						
	-			·			
	-						
•			Reduced Matrix, CS		ated Sand G		ation: PL=Pore Lining, M=Matrix.
ydric Soil I	ndicators: (Appli	cable to all I	LRRs, unless othe	rwise noted.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
_ Histosol	` '		Sandy Red				luck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped Ma				luck (A10) (LRR B)
_ Black Hi	` '			cky Mineral (F1)			ed Vertic (F18)
	n Sulfide (A4)	۵)		yed Matrix (F2)			arent Material (TF2)
	Layers (A5) (LRR	C)	✓ Depleted M			Other (	Explain in Remarks)
	ick (A9) ( <b>LRR D</b> ) d Below Dark Surfa	co (Δ11)		Surface (F6) ark Surface (F7)			
	ark Surface (A12)	ce (ATT)		ressions (F8)		<sup>3</sup> Indicators (	of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Poo				nydrology must be present,
	lleyed Matrix (S4)			()			sturbed or problematic.
	ayer (if present):						·
Type: hai	rd pan						
Type: hai						Hydric Soil	Present? Yes √ No
Type: <u>har</u> Depth (inc						Hydric Soil	Present? Yes <u>√</u> No
Type: har						Hydric Soil	Present? Yes <u>√</u> No
Type: hall Depth (incomments) Remarks:	GY					Hydric Soil	Present? Yes <u>√</u> No
Type: han Depth (income Remarks:	GY drology Indicators						
Type: han Depth (inc Remarks:  YDROLO Vetland Hyd Primary Indic	GY drology Indicators		; check all that appl			Secon	dary Indicators (2 or more required)
Type: han Depth (inc Remarks:  YDROLO Vetland Hyd Primary Indic Surface	GY drology Indicators cators (minimum of		Salt Crust	(B11)		<u>Secon</u> W	dary Indicators (2 or more required) dater Marks (B1) ( <b>Riverine</b> )
Type: hai Depth (inc Remarks:  YDROLO Vetland Hyc Surface High Wa	GY drology Indicators eators (minimum of Water (A1) eter Table (A2)		Salt Crust	(B11) st (B12)		<u>Secon</u> W Se	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturation	GY drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3)	one required	Salt Crust Biotic Crust Aquatic In	(B11) st (B12) vertebrates (B13)		Secon W Se	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Type: hai Depth (inc Remarks:  YDROLO Vetland Hyc Primary Indic Surface High Wa Saturatic Water M	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive	one required	Salt Crust Biotic Crust Aquatic In Hydrogen	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1	)	Secon   W   Se   Di   Di	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Type: hai	GY drology Indicators cators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No	one required rine) onriverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor	) ng Living Roo	Secon  W Se Di Di Ots (C3) Di	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Type: hai Depth (inc Remarks:  YDROLO  Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep	GY drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No	one required rine) onriverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (	) ng Living Roo (C4)	Secon W Se Di Di Di Di Cts (C3) Di	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (ediment Deposits (B2) (Riverine) (rift Deposits (B3) (Riverine) (rainage Patterns (B10) (ry-Season Water Table (C2) (rayfish Burrows (C8)
Type: hai Depth (inc Remarks:  YDROLO  Wetland Hyo Surface High Wa Saturatio Water M Sedimer Drift Dep ✓ Surface	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6)	one required rine) onriverine) erine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Ti	) ng Living Roo (C4)	Secon  W Se Di Di Cots (C3) C1 6) Secon	dary Indicators (2 or more required) Pater Marks (B1) (Riverine) Pediment Deposits (B2) (Riverine) Perift Deposits (B3) (Riverine) Perinage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Paturation Visible on Aerial Imagery (C5)
Type: hai Depth (ind Remarks:  YDROLO Wetland Hyd Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) arks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial	one required rine) onriverine) erine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Ti c Surface (C7)	) ng Living Roo (C4) Iled Soils (C6	Secon  W Secon Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cshallow Aquitard (D3)
Type: hai Depth (ind Remarks:  YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep V Surface Inundatio Water-Si	GY  drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9)	one required rine) onriverine) erine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Ti	) ng Living Roo (C4) Iled Soils (C6	Secon  W Secon Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) Pater Marks (B1) (Riverine) Pediment Deposits (B2) (Riverine) Perift Deposits (B3) (Riverine) Perinage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Paturation Visible on Aerial Imagery (C5)
Type: hai Depth (inc Remarks:  YDROLO Vetland Hyo Primary Indio Surface High Wa Saturatio Water M Sedimer Drift Dep V Surface Inundatio Water-Si Field Observ	GY  drology Indicators eators (minimum of Water (A1) tter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	one required rine) onriverine) erine) Imagery (B7	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Ti a Surface (C7) plain in Remarks)	) ng Living Roo (C4) Iled Soils (C6	Secon  W Secon Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cshallow Aquitard (D3)
Type: hai Depth (inc Remarks:  YDROLO  Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep V Surface Inundatic Water-Si Field Observ	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive on Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	one required rine) onriverine) erine) Imagery (B7	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron ( on Reduction in Ti x Surface (C7) plain in Remarks) ches):	) ng Living Roo (C4) Iled Soils (Co	Secon  W Secon  Do Cots (C3) Cots (C3) Secon Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cshallow Aquitard (D3)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyo Surface High Wa Saturatio Water M Sedimer Drift Dep ✓ Surface Inundatio Water-Si Field Observ Surface Water	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) en Visible on Aerial tained Leaves (B9) evations: er Present? Present?	rine) porriverine) erine) Imagery (B7	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Tic Surface (C7) plain in Remarks) ches):	) ng Living Roo (C4) Illed Soils (C0	Secon  W Secon  Do Cots (C3) Cots (C3) Secon Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cshallow Aquitard (D3)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep V Surface Inundatio Water-Si Field Observ Surface Water Saturation Pr	GY  drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) arks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present?	rine) porriverine) erine) Imagery (B7	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Tic Surface (C7) plain in Remarks) ches):	) ng Living Roo (C4) Illed Soils (C0	Secon  W Se Di Cots (C3) Ci 6) Si F	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cshallow Aquitard (D3)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface Inundatic Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B7 Yes N Yes N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Ti a Surface (C7) plain in Remarks) ches):	ng Living Roo (C4) Iled Soils (Co	Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cs) nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyo Surface High Wa Saturatio Water M Sedimer Drift Dep ✓ Surface Inundatio Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B7 Yes N Yes N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Ti a Surface (C7) plain in Remarks) ches):	ng Living Roo (C4) Iled Soils (Co	Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cs) nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hair Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep V Surface Inundatic Water-Si Field Observ Surface Water Surface Water Carration Profincludes cap Describe Rec	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B7 Yes N Yes N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Ti a Surface (C7) plain in Remarks) ches):	ng Living Roo (C4) Iled Soils (Co	Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cs) nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hair Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep V Surface Inundatic Water-Si Field Observ Surface Water Surface Water Carration Profincludes cap Describe Rec	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B7 Yes N Yes N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Ti a Surface (C7) plain in Remarks) ches):	ng Living Roo (C4) Iled Soils (Co	Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cs) nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface Inundatic Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B7 Yes N Yes N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Ti a Surface (C7) plain in Remarks) ches):	ng Living Roo (C4) Iled Soils (Co	Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cs) nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hair Depth (inc Remarks:  YDROLO  Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep V Surface Inundatic Water-Si Field Observ Surface Water Vater Table Saturation Princludes cap Describe Rec	GY drology Indicators eators (minimum of Water (A1) eter Table (A2) on (A3) earks (B1) (Nonrive et Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B7 Yes N Yes N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron (on Reduction in Ti a Surface (C7) plain in Remarks) ches):	ng Living Roo (C4) Iled Soils (Co	Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cs) nallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date: 11/10/2020						)/2020	
Applicant/Owner: D.E. Shaw Renewable Investments				State:C	A Samp	oling Point:	1	27
Investigator(s): A. Godinho and A. Crawford	;	Section, T	ownship, Ra	nge: Township 71	N / Range 7	E / Sectio	n 11	
Landform (hillslope, terrace, etc.): Hillslope		Local reli	ef (concave,	convex, none): Cor	nvex	Slo	pe (%):	2
Subregion (LRR):								
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30				-				
Are climatic / hydrologic conditions on the site typical for thi								
Are Vegetation, Soil, or Hydrologys				"Normal Circumstan			✓ No	0
Are Vegetation, Soil, or Hydrology r				eeded, explain any a				
SUMMARY OF FINDINGS – Attach site map							eature	s, etc.
Hydrophytic Vegetation Present? Yes N		<u> </u>		,	<u> </u>			
Hydric Soil Present? Yes N			the Sampled			/		
Wetland Hydrology Present? Yes N		Wit	thin a Wetlai	nd? Yes		No <u> </u>	_	
Remarks:		I						
Associated feature: SW-36								
VEGETATION – Use scientific names of plan	its.							
	Absolute	Dominar	nt Indicator	Dominance Test	worksheet	:		
Tree Stratum (Plot size:)			? Status	Number of Domir			_	
1				That Are OBL, FA	ACW, or FAC	): <u> </u>	)	(A)
2.				Total Number of I		·	0	(D)
3 4				Species Across A	III Strata:		3	(B)
	0			Percent of Domin That Are OBL, FA			2	(
Sapling/Shrub Stratum (Plot size:)								(A/D)
1				Prevalence Inde				
2				Total % Cove				
3				OBL species (	) n			
4					)			
5	0	= Total C	Cover	FACU species				_
Herb Stratum (Plot size: 5m x 5m )				UPL species				_
1. Elymus caput-medusae		Y	UPL	Column Totals:	100	(A)	450	_ (B)
2. Bromus hordeaceus			_ FACU_	Drovolonoo	Indox - P/A		1 5	
3. Holocarpha virgata				Hydrophytic Veg	Index = B/A		+.3	
4				Dominance 1				
5				Prevalence li				
7.				Morphologica	al Adaptation	ns¹ (Provide	suppor	ting
8.				data in Re	emarks or on		,	
		= Total C	Cover	Problematic	Hydrophytic	Vegetation	' (Explai	n)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hyd	ric coil and v	wotland by	trology r	nuct
1				be present, unles				iiuSt
2		= Total C		Hydrophytic				
				Vegetation			,	
% Bare Ground in Herb Stratum 0	r of Biotic Cr	rust	0	Present?	Yes	No _	✓	
Remarks:								

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type  0-2 10 YR 3/2 100	e <sup>1</sup> Loc <sup>2</sup> Texture Remarks
0-2 10 YR 3/2 100	
	Silty clay
	<del></del>
	<u></u>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Co	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)	2 cm Muck (A10) ( <b>LRR B</b> )
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
Restrictive Layer (if present):	diffess distarbed of problematic.
Type: hard pan	
Depth (inches): 2	Hydric Soil Present? Yes No _✓
Remarks:	Tryunc son riesent: Tes No
HYDROLOGY	
Wetland Hydrology Indicators:	
	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required: check all that apply)	Water Marks (B1) (Riverine)
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Solt Crust (B11)	
Surface Water (A1) Salt Crust (B11)	
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13)	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13 Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sufface Water (B11) Saturation (A2) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C12) Oxidized Rhizospheres alo	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Saturation (A3) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alo	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Saturation (A2) Aquatic Invertebrates (B13	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)  Salt Crust (B11) Aquatic Invertebrates (B13) Aquatic In	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dray-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alo Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Other (Explain in Remarks)	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dray-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Salt Crust (B11) Biotic Crust (B12)  Aquatic Invertebrates (B13  Aquatic Invertebrates (B13  Oxidized Rhizospheres alo  Presence of Reduced Iron  Recent Iron Reduction in T  Thin Muck Surface (C7)  Other (Explain in Remarks)	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13 Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1 Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres alo Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron Surface Soil Cracks (B6) Recent Iron Reduction in T Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No ✓ Depth (inches):	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres alore Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron Surface Soil Cracks (B6) Recent Iron Reduction in T Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)  Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13 Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1 Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres alo Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron Surface Soil Cracks (B6) Recent Iron Reduction in T Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches):	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13 Water Marks (B1) (Nonriverine) Oxidized Rhizospheres aloo Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron Surface Soil Cracks (B6) Recent Iron Reduction in T Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dray-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No _✓
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13 Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1 Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres alo Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron Surface Soil Cracks (B6) Recent Iron Reduction in T Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches):	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dray-Season Water Table (C2)  (C4)
Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine) Oxidized Rhizospheres aloo  Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron  Surface Soil Cracks (B6) Recent Iron Reduction in T  Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)  Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No✓ Depth (inches):  Water Table Present? Yes No✓ Depth (inches):  Saturation Present? Yes No✓ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous)	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dray-Season Water Table (C2)  (C4)
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13 Water Marks (B1) (Nonriverine) Oxidized Rhizospheres aloo Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron Surface Soil Cracks (B6) Recent Iron Reduction in T Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No✓ Depth (inches): Water Table Present? Yes No✓ Depth (inches): Saturation Present? Yes No✓ Depth (inches): (includes capillary fringe)	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dray-Season Water Table (C2)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No _✓
Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine) Oxidized Rhizospheres aloo  Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron  Surface Soil Cracks (B6) Recent Iron Reduction in T  Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)  Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No✓ Depth (inches):  Water Table Present? Yes No✓ Depth (inches):  Saturation Present? Yes No✓ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous)	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dray-Season Water Table (C2)  (C4)
Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Biotic Crust (B12)  Saturation (A3) Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine) Oxidized Rhizospheres aloo  Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron  Surface Soil Cracks (B6) Recent Iron Reduction in T  Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)  Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No✓ Depth (inches):  Water Table Present? Yes No✓ Depth (inches):  Saturation Present? Yes No✓ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous)	Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  (C4)

Project/Site: Sloughhouse Solar Energy Project	Cit	y/County:	Sacramen	to County	_ Sampling Date	e: <u>11/10/</u>	/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	_ Sampling Poir	nt: <u>12</u> 5	8		
Investigator(s): A. Godinho and A. Crawford	Se	ection, Tov	nship, Ran	ge: Township 7N / R	ange 7E / Sect	ion 10	
Landform (hillslope, terrace, etc.): <u>Drainage</u>	Lo	ocal relief (	(concave, c	onvex, none): Concave	<u> </u>	Slope (%): _	3
Subregion (LRR): L	at: 38.47	221605		Long: -121.1885016	Da	atum: WGS	84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s							
Are climatic / hydrologic conditions on the site typical for this tim							
Are Vegetation, Soil, or Hydrology signif				Normal Circumstances"		✓ No	
Are Vegetation, Soil, or Hydrology natur				eded, explain any answe			
							-1-
SUMMARY OF FINDINGS – Attach site map sho	wing s	ampling	) point io	cations, transects	s, important	reatures,	, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled .	Area			
Hydric Soil Present? Yes No	_		n a Wetland		No✓	,	
Wetland Hydrology Present? Yes No	<u> </u>						
Remarks:							
Associated Feature: SW37							
VEGETATION – Use scientific names of plants.							
		Dominant Species?		Dominance Test world			
1				Number of Dominant S That Are OBL, FACW,		0	(A)
2							` ,
3				Total Number of Domin Species Across All Stra		2 (	(B)
4				Percent of Dominant S	Snacias		
Cooling/Charle Ctrotum (Diet size)	0 =	Total Cov	er	That Are OBL, FACW,		0 (	(A/B)
Sapling/Shrub Stratum (Plot size:)  1			-	Prevalence Index wo	rksheet:		
2				Total % Cover of:		tiply by:	
3				OBL species 0			
4.				FACW species 0			
5				FAC species 0	x 3 =	0	
-	=	Total Cov	er	FACU species <u>67.5</u>			
Herb Stratum (Plot size: 5m x 5m )  1. Bromus hordeaceus	17.5	N	FACU	UPL species 42.5			
-	17.5 _ 17.5 _		UPL	Column Totals:1	<u>00</u> (A) _	482.5	(B)
3. Festuca myuros	F-0	Y	FACU	Prevalence Index	x = B/A =	4.8	_
4. Holocarpha virgata	25	Y	UPL	Hydrophytic Vegetati			
5				Dominance Test is	s >50%		
6				Prevalence Index			
7				Morphological Ada			ng
8				Problematic Hydro	s or on a separa	,	.)
	100 =	Total Cov	er	1 Toblematic Hydre	priytic vegetation	JII (Explain)	,
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric so	oil and wetland h	ydrology mi	ust
2				be present, unless dist			
		Total Cov	er	Hydrophytic			
% Bare Ground in Herb Stratum 0	Biotic Crus	st 0		Vegetation Present? Ye	es No	✓	
Remarks:		-		•			

	cription: (Describe	to the dept		ment the in ox Features		or confiri	n the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 3/1	100	<del></del>				Silty clay	
						-		
						-		
¹Type: C=C	oncentration, D=Dep	letion. RM=	Reduced Matrix. C	S=Covered	or Coate	ed Sand G	rains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic							for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm M	luck (A9) ( <b>LRR C</b> )
Histic E	pipedon (A2)		Stripped M					luck (A10) ( <b>LRR B</b> )
Black H	istic (A3)		Loamy Mud	cky Mineral	(F1)		Reduce	ed Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Pa	arent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M	` '			Other (	Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	(8.4.1)	Redox Dar	,	,			
	d Below Dark Surfac	e (A11)	Depleted D				31 12 1	of handran had a consistent a consist
	ark Surface (A12)  Mucky Mineral (S1)		Redox Dep Vernal Poo		٥)			of hydrophytic vegetation and hydrology must be present,
	Gleyed Matrix (S4)		vernai P00	19 (۲9)				nydrology must be present, sturbed or problematic.
	Layer (if present):						dinoco di	otarboa or problematic.
Type: ha								
Depth (in	ches): 2						Hydric Soil	Present? Yes No ✓
Remarks:			<del></del>				1.7	
IYDROLO								
-	drology Indicators:							
Primary India	cators (minimum of o	one required	l; check all that app	ly)			Secon	dary Indicators (2 or more required)
	Water (A1)		Salt Crust	` ,				ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Se	ediment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic In	vertebrates	s (B13)		Di	rift Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen	Sulfide Od	lor (C1)		Di	rainage Patterns (B10)
Sedime	nt Deposits (B2) (No	nriverine)	Oxidized	Rhizospher	es along	Living Ro	ots (C3) Di	ry-Season Water Table (C2)
Drift Dep	posits (B3) (Nonrive	rine)	Presence	of Reduce	d Iron (C4	4)	Cı	rayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	on in Tille	d Soils (C	6) Sa	aturation Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial	Imagery (B7	') Thin Mucl	Surface (	C7)		SI	hallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in Re	marks)		F/	AC-Neutral Test (D5)
Field Obser								
Surface Wat			No 🗸 Depth (in					
Water Table	Present?	′es N	No <u>√</u> Depth (in	iches):		_		
Saturation P		/es N	No <u>✓</u> Depth (in	ches):		Wet	land Hydrology	/ Present? Yes No/
(includes cap Describe Re	oillary fringe) corded Data (stream	naline mo	nitoring well serial	nhotos pre	avious ine	nections)	if available.	
Describe ive	colded Data (Stream	r gauge, mo	illioning well, aeriai	priotos, pre	ovious iris	pections),	, ii avallable.	
Remarks:								
rtemarks.								

Project/Site: Sloughhouse Solar Energy Project	C	ity/County:	Sacramer	nto County	Sampling Date: <u>11/10/2020</u>		
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 129				
Investigator(s): A. Godinho and A. Crawford Section, Township, Range: Township 7N / Range 7E / Section 11							
Landform (hillslope, terrace, etc.): basin	[	_ocal relief	(concave, c	convex, none): <u>Concave</u>	Slope (%):2		
Subregion (LRR): L	at: <u>38.4</u>	7321644		Long: <u>-121.1868466</u>	Datum: WGS84		
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s	lopes			NWI classific	ation: n/a		
Are climatic / hydrologic conditions on the site typical for this tim	ne of yea	r? Yes	✓ No	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology signif	ficantly d	isturbed?	Are "I	Normal Circumstances" p	oresent? Yes No		
Are Vegetation, Soil, or Hydrology natur	rally prob	lematic?	(If ne	eded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site map sho	owing :	sampling	g point lo	ocations, transects	, important features, etc.		
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓ No   Yes  ✓ No   No   No   No   No   No   No   N			e Sampled n a Wetlan		No		
Associated feature: SW 35							
VEGETATION – Use scientific names of plants.							
Ab		Dominant	Indicator	Dominance Test work	sheet:		
,		Species?		Number of Dominant Sp			
1				That Are OBL, FACW, o	or FAC:4 (A)		
2				Total Number of Domin Species Across All Stra			
4					. , ,		
		= Total Cov		Percent of Dominant Sp That Are OBL, FACW, of	or FAC: <u>100</u> (A/B)		
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor	kshoot:		
1					Multiply by:		
3					x 1 =		
4					x 2 =		
5					x 3 =		
		= Total Cov			x 4 =		
Herb Stratum (Plot size: 5m x 5m )					x 5 =		
1. Festuca perennis	20	Υ	FAC	Column Totals:	(A) (B)		
2. Eryngium castrense	10	Y	OBL				
3. Phyla nodiflora	10	Υ	<u>FACU</u>		= B/A =		
4. Polygonum aviculare	10	Υ	<u>FAC</u>	Hydrophytic Vegetation			
5				✓ Dominance Test is			
6				Prevalence Index is			
7				Morphological Adaj data in Remarks	ptations <sup>1</sup> (Provide supporting s or on a separate sheet)		
8					phytic Vegetation <sup>1</sup> (Explain)		
Woody Vine Stratum (Plot size:)	50 :	= Total Cov	er/er				
1				<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.		
		= Total Cov	/er	Hydrophytic			
% Bare Ground in Herb Stratum 50  % Cover of I				Vegetation	s✓ No		
Remarks:				<u> </u>			

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10 YR 3/1	95	7.5 YR 5/8		C	PL	Silty clay	Komano
<del>J-4</del>	10 11( 3/1	_ <u> </u>	7.5 11 3/8				Sifty clay	
	-						<del></del>	
	-				· <del></del>		·	
					· <del></del>		<u> </u>	
 	D. D.		Dadward Matrix C				21	eties. Di Deseliaire M Metric
			=Reduced Matrix, C LRRs, unless other			ed Sand G		ation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol		Jabic to all	Sandy Red		cu.,			uck (A9) (LRR C)
	oipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
Black His			Loamy Mu		ıl (F1)			ed Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gle				Red Pa	rent Material (TF2)
	l Layers (A5) (LRR	C)	Depleted N				Other (E	Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )		<u>✓</u> Redox Dai					
	Below Dark Surface	ce (A11)	Depleted [		, ,		31	Charles about a constate a see d
	ark Surface (A12) lucky Mineral (S1)		Redox Dep		F8)			of hydrophytic vegetation and hydrology must be present,
	leyed Matrix (S4)		veillai Foo	)is (i-9)				sturbed or problematic.
	ayer (if present):						1	
Restrictive L								
Restrictive L <sub>Type:</sub> hai								
	rd pan						Hydric Soil F	Present? Yes √ No
Type: hai	rd pan						Hydric Soil I	Present? Yes <u>√</u> No
Type: hai Depth (ind Remarks:	rd pan ches): <u>4</u>						Hydric Soil I	Present? Yes <u>√</u> No
Type: hai	rd pan ches): 4						Hydric Soil I	Present? Yes √ No
Type: hai	GY drology Indicators			, la la la la la la la la la la la la la				
Type: had Depth (income Remarks:  YDROLOG Wetland Hyde Primary Indicates)	GY drology Indicators eators (minimum of		d; check all that app	* *			Second	dary Indicators (2 or more required)
Type: hai	GY drology Indicators eators (minimum of Water (A1)		Salt Crus	t (B11)			Second	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa	GY drology Indicators eators (minimum of Water (A1) ter Table (A2)		Salt Crus Biotic Cru	t (B11) ust (B12)	ne (P42)		Second Wa	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturatio	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3)	one required	Salt Crus Biotic Cru Aquatic I	t (B11) ust (B12) nvertebrate	. ,		<u>Second</u> Wa Se Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Type: hai Depth (ind Remarks:  YDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive	one required	Salt Crus Biotic Cru Aquatic II Hydroger	t (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)	Living Po	Second  Wi Se  Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10)
Type: hai	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No	one required rine) onriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	_	Second Wa Se Dr Dr Dr Dr Dr Dr Dr.	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep	GY  drology Indicators rators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No	one required rine) onriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C	4)	Second Wa Se Dr Dr Drs (C3) Dr Cr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyc Surface High Wa Saturatic Water M Sedimer Drift Dep	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive otosits (B2) (No	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic II Hydroger Voxidized Presence Recent Ir	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduce	dor (C1) eres along ed Iron (C ion in Tille	4)	Second  Wa Se Dr Dr Cots (C3) Cr Sa	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C8)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation	GY drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduct k Surface	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Second  Wa Se Dr Dr Cr Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Type: hai	GY  Grology Indicators Eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive of the Deposits (B2) (Nonrive of the Deposits (B3) (Nonrive o	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduce	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Second  Wa Se Dr Dr Cr Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C8)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface ✓ Inundatic Water-Si Field Observ	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	rine) priverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface coplain in Re	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second  Wa Se Dr Dr Cr Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyo Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface ✓ Inundatic Water-Si Field Observ Surface Water	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re	dor (C1) eres along ed Iron (C fon in Tille (C7) emarks)	4) d Soils (Co	Second  Wa Se Dr Dr Cr Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyc Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-Si Field Observ Surface Water	GY  Grology Indicators Eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (No cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	rine) onriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface kplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second  Wa Se Dr Dr Cr Cr 6) Sa FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface ✓ Inundatic Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (ii No ✓ Depth (ii	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface ✓ Inundatic Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hair Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface ✓ Inundatic Water-Si Field Observ Surface Water Surface Water Compared to the c	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (ii No ✓ Depth (ii	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hai Depth (inc Remarks:  YDROLO Wetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface ✓ Inundatic Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (ii No ✓ Depth (ii	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Type: hair Depth (inc Remarks:  YDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep ✓ Surface ✓ Inundatic Water-Si Field Observ Surface Water Surface Water Compared to the c	GY  drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive ot Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic II Hydroger ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (Ex  No ✓ Depth (ii No ✓ Depth (ii	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	nto County	Sampling Date: <u>11/10/2020</u>
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 130
Investigator(s): A. Godinho and A. Crawford	Section, Township, Ra	nge: Township 7N / Ra	nge 7E / Section 11
Landform (hillslope, terrace, etc.): <u>Drainage</u>	Local relief (concave,	convex, none): Concave	Slope (%):2
Subregion (LRR): Lat:	38.47326018	Long: -121.1868134	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slop		_	
Are climatic / hydrologic conditions on the site typical for this time o			
Are Vegetation, Soil, or Hydrology significal			resent? Yes No
Are Vegetation, Soil, or Hydrology naturally		eeded, explain any answer	
SUMMARY OF FINDINGS – Attach site map show			
SOMMART OF FINDINGS – Attach site map show		ocations, transects	, important leatures, etc.
Hydrophytic Vegetation Present? Yes No✓		I Area	
Hydric Soil Present? Yes ✓ No	within a Wetlar		No <u>√</u>
Wetland Hydrology Present? Yes ✓ No	_		
Associated feature: SW 35			
VEGETATION – Use scientific names of plants.			
Absol   Tree Stratum (Plot size:)	ute Dominant Indicator ver Species? Status	Dominance Test works	
1		Number of Dominant Sp That Are OBL, FACW, of	
2		Total Number of Domina	ant
3		Species Across All Strat	
4		Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size:)	= Total Cover		or FAC:33 (A/B)
1		Prevalence Index work	ksheet:
2.		Total % Cover of:	Multiply by:
3		OBL species 0	x 1 =0
4		FACW species 0	x 2 =0
5			x 3 = <u>75</u>
Herb Stratum (Plot size: 5m x 5m )	= Total Cover	FACU species 50	
1. Bromus hordeaceus 50	Y FACU	Column Totals: 10	x = 5 = 125 (A) 400 (B)
	Y UPL	Column Totals:	<u>(A) 400 (B)</u>
3. Festuca perennis 25	Y FAC	Prevalence Index	= B/A =4
4		Hydrophytic Vegetation	
5		Dominance Test is	
6		Prevalence Index is	
7			ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8			ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	0 = Total Cover		
1			and wetland hydrology must
2		be present, unless distu	rbed or problematic.
0	= Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	c Crust0		s No <u>√</u>
Remarks:		.1	

	cription: (Describe	to the dep				or confirm	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	<u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 3/2	80	7.5 YR 5/8	20	С	PL	Silty clay	
				· <del></del>				
					-			
	oncentration, D=Dep					ed Sand G		tion: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all			ted.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)		Sandy Red Stripped M	. ,				ick (A9) ( <b>LRR C</b> ) ick (A10) ( <b>LRR B</b> )
	stic (A3)		Simpled W		al (F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					ent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N					xplain in Remarks)
	ıck (A9) ( <b>LRR D</b> )	,	✓ Redox Dar					,
Depleted	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				/drology must be present,
	Bleyed Matrix (S4) Layer (if present):						unless dis	turbed or problematic.
Type: ha								
Depth (in			<del></del>				Hydric Soil B	resent? Yes No
Remarks:	CHES). <u>Z</u>						Hydric 30ii F	resent: res_v NO
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one require	d; check all that app	oly)			Second	ary Indicators (2 or more required)
	Water (A1)		Salt Crus	t (B11)			<del></del>	ter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sec	diment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Ir	nvertebrate	es (B13)		Drif	t Deposits (B3) (Riverine)
Water M	larks (B1) (Nonriver	ine)	Hydroger				·	inage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	✓ Oxidized	Rhizosphe	eres along	Living Roo	ots (C3) Dry	-Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence					yfish Burrows (C8)
	Soil Cracks (B6)					ed Soils (Co		turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B	•	k Surface				allow Aquitard (D3)
	tained Leaves (B9)		Other (Ex	plain in R	emarks)		FA	C-Neutral Test (D5)
Field Obser								
Surface Wat			No <u>✓</u> Depth (ir					
Water Table			No <u>√</u> Depth (ir			l l		,
Saturation P (includes cap	resent? Y	'es	No <u>✓</u> Depth (ir	nches):		Wetl	land Hydrology	Present? Yes No
	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, p	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	c	city/County:	Sacramer	nto County	Sampling Date: <u>11/10/2020</u>		
Applicant/Owner: D.E. Shaw Renewable Investments	Sampling Point: 132						
Investigator(s): A. Godinho and A. Crawford Section, Township, Range: Township 7N / Range 7E / Section 10							
Landform (hillslope, terrace, etc.): Hillslope	l	_ocal relief	(concave, c	convex, none): <u>Concave</u>	Slope (%):3		
Subregion (LRR): I	Lat: <u>38.4</u>	738393		Long: <u>-121.1876265</u>	Datum: WGS84		
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	slopes			NWI classific	ation: n/a		
Are climatic / hydrologic conditions on the site typical for this tir	me of yea	r? Yes	✓ No	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology sign	ificantly d	listurbed?	Are "l	Normal Circumstances" p	present? Yes No		
Are Vegetation, Soil, or Hydrology natu	urally prob	lematic?	(If ne	eded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach site map sh	owing	sampling	g point lo	ocations, transects	, important features, etc.		
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓ No   Yes  ✓ No   No   No   No   No   No   No   N			e Sampled n a Wetlan		No		
Associated feature: VP17							
VEGETATION – Use scientific names of plants.							
		Dominant	Indicator	Dominance Test work	sheet:		
1				Number of Dominant S That Are OBL, FACW, o			
2				Total Number of Domin Species Across All Stra			
4		= Total Cov		Percent of Dominant Sp That Are OBL, FACW, 6	pecies or FAC:100 (A/B)		
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index wor	ksheet:		
2					Multiply by:		
3					x 1 =		
4					x 2 =		
5					x 3 =		
		= Total Cov		·	x 4 =		
Herb Stratum (Plot size: 5m x 5m )				UPL species	x 5 =		
1. Eleocharis macrostachya	30	Y	OBL	Column Totals:	(A) (B)		
2. Hordeum marinum		N	<u>FAC</u>				
3. Holocarpha virgata		N	<u>UPL</u>		= B/A =		
4. Eryngium castrense		<u>N</u>	OBL	Hydrophytic Vegetation			
5. Polygonum aviculare		<u>N</u>	<u>FAC</u>	<ul><li>✓ Dominance Test is</li><li>✓ Prevalence Index is</li></ul>			
6				l	s \( \) 5.0  ptations <sup>1</sup> (Provide supporting		
7					s or on a separate sheet)		
8		= Total Cov		Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)		
Woody Vine Stratum (Plot size:)		= 10tal Co\	/er				
1				<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.		
		= Total Cov	/er	Hydrophytic			
% Bare Ground in Herb Stratum 50 % Cover of				Vegetation Present? Yes	s No		
Remarks:				1			

	cription: (Describe	to the dep				or confirm	n the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/2	90	7.5 YR 5/8	10	С	M/PL		
			.,.		_			
-					-	· <u></u>		
					_		·	
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	oletion, RM=	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand Gr	rains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	erwise no	ted.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,			1 cm N	luck (A9) ( <b>LRR C</b> )
	oipedon (A2)		Stripped M					luck (A10) (LRR B)
	stic (A3)		Loamy Mu					ed Vertic (F18)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b> (	C)	Loamy Gle Depleted N	-	. ,			arent Material (TF2) Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	0)	✓ Redox Dar				Other (	Explain in Nomarka)
	d Below Dark Surfac	e (A11)	Depleted D		` '			
	ark Surface (A12)		Redox Dep	oressions	(F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				hydrology must be present,
	Bleyed Matrix (S4) Layer (if present):						unless di	sturbed or problematic.
Type: ha								
Depth (in							Hydria Sail	Present? Yes √ No
• •	cnes): <u>4</u>						Hydric Soil	Present? Yes √ No
Remarks:								
HYDROLO								
_	drology Indicators:						_	
	cators (minimum of o	one required		•			<u> </u>	dary Indicators (2 or more required)
	Water (A1)		Salt Crus	` ,				/ater Marks (B1) (Riverine)
	ater Table (A2)		✓ Biotic Cru		(5.40)			ediment Deposits (B2) (Riverine)
Saturation	, ,	• \	Aquatic Ir		` '		<del></del>	rift Deposits (B3) (Riverine)
	larks (B1) (Nonriver		Hydroger			Living Dog		rainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b> posits (B3) ( <b>Nonrive</b>		✓ Oxidized Presence		_	_		ry-Season Water Table (C2) rayfish Burrows (C8)
	Soil Cracks (B6)	iiie)	<del></del>		,	ed Soils (C6		aturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B				,a 00115 (00		hallow Aquitard (D3)
· · · · · · · · · · · · · · · · · · ·	tained Leaves (B9)		, <u> </u>	plain in R				AC-Neutral Test (D5)
Field Obser	vations:				,			. ,
Surface Wat	er Present? Y	'es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No <u>✓</u> Depth (ir				and Hydrology	/ Present? Yes No
(includes car	oillary fringe)						-	
Describe Re	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, p	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramer	to County	Sampling Date:11/10/2020				
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 133				
Investigator(s): A. Godinho and A. Crawford Section, Township, Range: Township 7N / Range 7E / Section 10							
Landform (hillslope, terrace, etc.): Basin	_ Local relief (concave, c	onvex, none): Concave	Slope (%):5				
Subregion (LRR): Lat: 38	3.47383308	Long: -121.1891878	Datum: WGS84				
			ation: n/a				
Are climatic / hydrologic conditions on the site typical for this time of y							
Are Vegetation, Soil, or Hydrology significantl			oresent? Yes <u>✓</u> No				
Are Vegetation, Soil, or Hydrology naturally p		eded, explain any answe					
SUMMARY OF FINDINGS – Attach site map showin							
Soliman of Findings – Attach site map showin		cations, transects	, important reatures, etc.				
Hydrophytic Vegetation Present? Yes No		Area					
Hydric Soil Present? Yes No ✓	within a Wetlan		No <u>√</u>				
Wetland Hydrology Present? Yes No✓							
Associated Feature: P-03							
VEGETATION – Use scientific names of plants.							
	e Dominant Indicator r Species? Status	Dominance Test work					
1		Number of Dominant Sp. That Are OBL FACW of	pecies or FAC:0 (A)				
2.							
3		Total Number of Domini Species Across All Stra					
4		Percent of Dominant Sp					
Continue Christian (Plot size)	_ = Total Cover		or FAC:0 (A/B)				
Sapling/Shrub Stratum (Plot size:)  1	-	Prevalence Index worl	ksheet:				
2			Multiply by:				
3.			x 1 =				
4.		FACW species	x 2 =				
5		FAC species	x 3 =				
Herb Stratum (Plot size: 5m x 5m )	_ = Total Cover		x 4 =				
1			x 5 =				
2		Column Lotals:	(A) (B)				
3.		Prevalence Index	= B/A =				
4.		Hydrophytic Vegetation	n Indicators:				
5		Dominance Test is					
6		Prevalence Index is					
7			ptations <sup>1</sup> (Provide supporting s or on a separate sheet)				
8			ohytic Vegetation <sup>1</sup> (Explain)				
Woody Vine Stratum (Plot size:)	= Total Cover						
1			l and wetland hydrology must				
2		be present, unless distu	irbed or problematic.				
0	_ = Total Cover	Hydrophytic Vegetation					
% Bare Ground in Herb Stratum 100 % Cover of Biotic	Crust 0	•	s No				
Remarks:							
Area is disturbed, used to stage agricultural equip	ment						

Profile Desc	ription: (Describe	to the depth	n needed to docur	nent the i	ndicator	or confirm	the absence of in	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-2	7.5 YR 3/2	100					Silty clay		
				-				_	
				-				-	
				-				_	
1									
	oncentration, D=Dep					d Sand Gr		n: PL=Pore Lining, M=Matrix.	
-	ndicators: (Applic	able to all L			ed.)			Problematic Hydric Soils <sup>3</sup> :	
Histosol	` '		Sandy Red	, ,				(A9) (LRR C)	
	pipedon (A2)		Stripped Ma	` ,	1 (54)			(A10) (LRR B)	
Black His			Loamy Muc				Reduced Ve		
	n Sulfide (A4)	<b>C</b> )	Loamy Gley Depleted M		(FZ)			Material (TF2) ain in Remarks)	
	l Layers (A5) ( <b>LRR</b> ) ck (A9) ( <b>LRR D</b> )	<b>(</b> )	Depleted M		(E6)		Other (Exp	alli ili Kelilaiks)	
	Below Dark Surfac	- (Δ11)	Depleted Da		. ,				
	rk Surface (A12)	0 (7111)	Redox Dep				3Indicators of hy	drophytic vegetation and	
	lucky Mineral (S1)		Vernal Pool		/			ology must be present,	
	leyed Matrix (S4)			- ( - /				ped or problematic.	
	ayer (if present):							•	
Type: har	d pan								
Depth (inc	ches): 2						Hydric Soil Present? Yes No ✓		
Remarks:							,		
	soil stockpile,								
HYDROLO	GY								
Wetland Hyd	drology Indicators:								
Primary Indic	ators (minimum of o	ne required;	check all that appl	y)			Secondary	Indicators (2 or more required)	
Surface \	Water (A1)		Salt Crust	(B11)			Water	Marks (B1) (Riverine)	
·	ter Table (A2)		Biotic Crus	` '			· · · · · · · · · · · · · · · · · · ·	ent Deposits (B2) (Riverine)	
Saturation			Aquatic In		s (B13)			eposits (B3) (Riverine)	
Water Ma	arks (B1) ( <b>Nonrive</b> r	ine)	Hydrogen					ige Patterns (B10)	
·	it Deposits (B2) (No	,	Oxidized F			Livina Roo	· · · · · · · · · · · · · · · · · · ·	eason Water Table (C2)	
	osits (B3) (Nonrive		Presence		_	_		sh Burrows (C8)	
	Soil Cracks (B6)	,	Recent Iro					ition Visible on Aerial Imagery (C9)	
	on Visible on Aerial	Imagery (B7)						w Aquitard (D3)	
	tained Leaves (B9)		Other (Exp		,			leutral Test (D5)	
Field Observ	. , ,								
Surface Water		os N	o <u>√</u> Depth (in	chae).					
Water Table			o <u> </u>						
								No. /	
Saturation Pr (includes cap		'es N	o <u>√</u> Depth (in	ches):		_   Wetla	and Hydrology Pre	esent? Yes No _ ✓	
Describe Rec	corded Data (stream	gauge, mor	nitoring well, aerial (	photos, pr	evious ins	pections),	if available:		
	,					. ,			
Remarks:									

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	nto County	Sampling Date: 11/10/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point:134
Investigator(s): A. Godinho and A. Crawford	Section, Township, Ra	nge: <u>Township 7N / Ra</u>	nge 7E / Section 10
Landform (hillslope, terrace, etc.): Basin	Local relief (concave,	convex, none): Concave	Slope (%):0
Subregion (LRR):	Lat: 38.46963031	Long: <u>-121.1925745</u>	Datum: WGS84
Soil Map Unit Name: Sailboat silt loam, drained, 0 - 2%	slopes, occasionally flooded	NWI classific	ation: PEM1Ch
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology signature.	gnificantly disturbed? Are "	'Normal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology na	aturally problematic? (If ne	eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	showing sampling point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓ No  No  Remarks:	within a Wetlar		No
Associated Feature: P-03 PEM1Ch - Freshwater Emergent Wetland			
VEGETATION – Use scientific names of plant	s.		
<u>Tree Stratum</u> (Plot size:) 1	Absolute Dominant Indicator Species? Status	Dominance Test work  Number of Dominant Sp That Are OBL, FACW, or	pecies
3		Total Number of Domin Species Across All Stra	
4	= Total Cover	Percent of Dominant Sp That Are OBL, FACW, o	pecies or FAC:0 (A/B)
1.		Prevalence Index wor	ksheet:
2		Total % Cover of:	Multiply by:
3		OBL species	x 1 =
4			x 2 =
5			x 3 =
Herb Stratum (Plot size: 5m x 5m )	= Total Cover		x 4 = x 5 =375
Dittrichia graveolens   2		Column Totals: 75	
3		Prevalence Index	= B/A =5
4.		Hydrophytic Vegetation	on Indicators:
5		Dominance Test is	
6		Prevalence Index is	
7			ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8	= Total Cover		ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum         (Plot size:)           1         2		<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must irbed or problematic.
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum25 % Cover	of Biotic Crust0	Vegetation Present? Yes	s No <u>√</u>
Remarks:			
Late season upland vegetation has moved i imagery.	nto the margin of the fe	ature. Inundation v	isible on areal

US Army Corps of Engineers

Depth _ (inches)	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
								Remarks
)-2	10 YR 4/2	98	7.5 YR 5/8	2	<u>C</u>	<u>M</u>	Silty clay	
					· ———			
				_				
			-					
					<del></del>			
					<del></del>			
			Reduced Matrix, C			ed Sand G		ation: PL=Pore Lining, M=Matrix.
•		able to all	LRRs, unless other		ed.)			for Problematic Hydric Soils <sup>3</sup> :
Histosol (A	,		Sandy Red					fluck (A9) (LRR C)
	pedon (A2)		Stripped N		J (E4)			fluck (A10) (LRR B)
Black Histi	` '			icky Minera eyed Matrix				ed Vertic (F18) arent Material (TF2)
<ul><li>Hydrogen Sulfide (A4)</li><li>Stratified Layers (A5) (LRR C)</li></ul>			Loanly Git		(FZ)			Explain in Remarks)
	k (A9) ( <b>LRR D</b> )	✓ Redox Da		(F6)		Outer (	Explain in Kemarks)	
	Below Dark Surfac	e (A11)		Dark Surfac				
		,			, ,		<sup>3</sup> Indicators	of hydrophytic vegetation and
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9)							wetland l	hydrology must be present,
Sandy Gle	eyed Matrix (S4)						unless di	sturbed or problematic.
Restrictive La	yer (if present):							
Type: hard	l pan							
Type: hard Depth (inch							Hydric Soil	Present? Yes <u>√</u> No
· · ·							Hydric Soil	Present? Yes <u>√</u> No
Depth (inch							Hydric Soil	Present? Yes <u>√</u> No
Depth (inch Remarks:	nes): <u>2</u>						Hydric Soil	Present? Yes ✓ No
Depth (inch Remarks: YDROLOG Wetland Hydr	iy ology Indicators:							
Depth (inch Remarks: YDROLOG Wetland Hydr	iy ology Indicators:		d; check all that app	oly)				Present? Yes _ √ No
Depth (inches Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W	iy ology Indicators: tors (minimum of colore (A1)		Salt Crus	st (B11)			<u>Secon</u> W	dary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
Depth (inches Remarks:  YDROLOG Wetland Hydres Primary Indicate	iy ology Indicators: tors (minimum of colore (A1)		•	st (B11)			<u>Secon</u> W	dary Indicators (2 or more required)
Depth (inches Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W	iY rology Indicators: tors (minimum of or /ater (A1) er Table (A2)		Salt Crus	st (B11) ust (B12)	es (B13)		<u>Secon</u> W Se	dary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Wate Saturation	iY rology Indicators: tors (minimum of or /ater (A1) er Table (A2)	one required	Salt Crus	st (B11) ust (B12) nvertebrate	, ,		<u>Secon</u> W Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar	rology Indicators: tors (minimum of color (A1) er Table (A2) ii (A3)	one required	Salt Crus Biotic Cru Aquatic I	st (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)	Living Ro	Secon W So Do Do	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar Sediment	ology Indicators: tors (minimum of color (A1) er Table (A2) a (A3) rks (B1) (Nonriver	one required rine) nriverine)	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O	dor (C1) eres along	_	Secon  — W — So — Do — Do ots (C3) — Do	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar Sediment Drift Depo	ology Indicators: tors (minimum of colored (A1) er Table (A2) a (A3) rks (B1) (Nonriver Deposits (B2) (No	one required rine) nriverine)	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	4)	Secon  — W  — Se  — De  — De  — ots (C3) — De  — C	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar Sediment Drift Depo ✓ Surface So	ology Indicators: tors (minimum of colored (A2) a (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) sits (B3) (Nonriver)	one required rine) nriverine) rine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along ed Iron (Co ion in Tille	4)	Secon  W Social Display Displa	dary Indicators (2 or more required)  (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Depth (inch Remarks:  YDROLOG  Wetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar Sediment Drift Depo	rology Indicators: tors (minimum of or tater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (No sits (B3) (Nonriver oil Cracks (B6)	one required rine) nriverine) rine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C- ion in Tille (C7)	4)	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required)  ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar Sediment Drift Depo V Surface So Inundation Water-Sta	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (No risits (B3) (Nonriver oil Cracks (B6) n Visible on Aerial nined Leaves (B9)	one required rine) nriverine) rine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	ot (B11) Just (B12) Invertebrate In Sulfide O Rhizosphe In Greduce In Reduce In Reduction Reduction	dor (C1) eres along ed Iron (C- ion in Tille (C7)	4)	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar Sediment Drift Depo ✓ Surface So ✓ Inundation Water-Sta Field Observa	rology Indicators: tors (minimum of colored (A2) (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) (Sits (B3) (Nonriver) (Sits (B4) (Nonriver) (Sits (B6)	rine) nriverine) rine) Imagery (B	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	ot (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce con Reducti ck Surface e	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (C	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Water Saturation Water Mar Sediment Drift Depo Surface So Inundation Water-Sta Field Observa Surface Water	rology Indicators: tors (minimum of or tors (minimum of or tors (minimum of or tors (Minimum of or tors (Minimum of or tors (Minimum of or tors (B1) (Nonriver Deposits (B2) (Nonriver oil Cracks (B6) or Visible on Aerial tined Leaves (B9) ations:	rine) nriverine) rine) Imagery (B:	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	ot (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reducti ck Surface ( xplain in Re	dor (C1) eres along ed Iron (Ci ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Water Saturation Water Mar Sediment Drift Depo ✓ Surface So ✓ Inundation Water-Sta Field Observa Surface Water Water Table Primary Indicate	rology Indicators: tors (minimum of order (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial nined Leaves (B9) attions: Present?	rine) nriverine) rine) Imagery (B:	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11)  ust (B12)  nvertebrate  n Sulfide O  Rhizosphe  of Reduce  on Reducti  ck Surface (  kplain in Re  nches):	dor (C1) eres along ed Iron (Ci ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Secon  Description  Colors (C3) Description  Colors (C3) Secon  Fr	dary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)  AC-Neutral Test (D5)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Water Saturation Water Mar Sediment Drift Depo Surface So Inundation Water-Sta Field Observa Surface Water Water Table Posaturation Presignedudes capill	rology Indicators: tors (minimum of order (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Nonriver Deposits (B3) (Nonriver Deposits (B3) (Nonriver Deposits (B4) (Nonriver Deposits (B5) (Nonriver Deposits (B6) (Nonriver Deposits (B6) (Nonriver Deposits (B6) (Nonriver Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposi	rine) nriverine) rine) Imagery (B:	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce con Reducti ck Surface ( kplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Social Secon  Colors (C3) Colors	dary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indicat Surface W High Water Saturation Water Mar Sediment Drift Depo Surface So Inundation Water-Sta Field Observa Surface Water Water Table Posaturation Presidicules capill	rology Indicators: tors (minimum of order (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Nonriver Deposits (B3) (Nonriver Deposits (B3) (Nonriver Deposits (B4) (Nonriver Deposits (B5) (Nonriver Deposits (B6) (Nonriver Deposits (B6) (Nonriver Deposits (B6) (Nonriver Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposits (B7) (Nonriver) Deposi	rine) nriverine) rine) Imagery (B:	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ot (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce con Reducti ck Surface ( kplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Social Secon  Colors (C3) Colors	dary Indicators (2 or more required)  /ater Marks (B1) (Riverine)  ediment Deposits (B2) (Riverine)  rift Deposits (B3) (Riverine)  rainage Patterns (B10)  ry-Season Water Table (C2)  rayfish Burrows (C8)  aturation Visible on Aerial Imagery (CS)  hallow Aquitard (D3)  AC-Neutral Test (D5)
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Project/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sam	pling Date: 11/10/2020
Applicant/Owner: D.E. Shaw Renewable Investments State: CA Sam	pling Point: <u>135</u>
Investigator(s): A. Godinho and A. Crawford Section, Township, Range: Township 7N / Range	7E / Section 10
Landform (hillslope, terrace, etc.): <u>Drainage</u> Local relief (concave, convex, none): <u>Concave</u>	Slope (%):2
Subregion (LRR): Lat: 38.47212802 Long: -121.1888395	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slopes NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remark	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present	nt? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in F	Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, imp	portant features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓ No No No No  No No No  Remarks:	No
Associated Feature: SW-37, at base of drainages upland of basin.	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator Dominance Test worksheet	ti
Tree Stratum (Plot size:)	
	J (A)
3 Total Number of Dominant Species Across All Strata:	2 (B)
4 Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size:)  = Total Cover	
1 Prevalence Index workshee	 et:
2	Multiply by:
3 OBL species	x 1 =
4 FACW species	x 2 =
5 FAC species	x 3 =
= Total Cover FACU species	x 4 =
Herb Stratum (Plot size: 5m x 5m )  1 Plagiopothrys bracteatus  40 Y FACW Orders Table	x 5 =
Column Totals:	(A)(B)
O Handows marinum	Δ =
4. <u>Eryngium castrense</u> 2.5 N OBL Hydrophytic Vegetation Ind 5. Polypogon monspeliensis 5 N FACW ✓ Dominance Test is >50%	
2.5 N. FAC Providence Index is <3.0	
7. Phyla nodiflora 2.5 N FAC Morphological Adaptation	
8 Lactuca serriola 2.5 N FACU data in Remarks or or	n a separate sheet)
Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	
1 <sup>1</sup> Indicators of hydric soil and be present, unless disturbed	
2	<u> </u>
_ Vegetation	′ No
Remarks:	
1	

Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10 YR 3/2	75	5 YR 3/8	25	C	M	Silty clay	Nomano
<u>)-3</u>	10 11( 3/2		<u>3 11( 3/ 6</u>			101	Sifty clay	
		<del>-</del>					-	
							-	
							-	
					-		·	
	D. D.	DM	Dadward Matrix C					eties. Di Deseliaire M Metric
			=Reduced Matrix, C LRRs, unless other			ed Sand G		ation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol		able to all	Sandy Red		.cu.j			luck (A9) (LRR C)
	ipedon (A2)		Stripped M					luck (A10) (LRR B)
Black His			Loamy Mu		al (F1)			ed Vertic (F18)
	n Sulfide (A4)		Loamy Gle					arent Material (TF2)
	Layers (A5) (LRR	Depleted N		. ,			Explain in Remarks)	
	ck (A9) ( <b>LRR D</b> )		✓ Redox Dar		(F6)		,	-
Depleted	Below Dark Surfac	e (A11)	Depleted D	Dark Surfac	ce (F7)			
Thick Dark Surface (A12) Redox Depressions (F8)								of hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Poo	ols (F9)				nydrology must be present,
Sandy G	leyed Matrix (S4)						unless di	sturbed or problematic.
Dootrictiva								
Type: har	d pan							<b>5</b> 10 1/2 1/2 1/2
Type: har Depth (inc	d pan						Hydric Soil	Present? Yes <u>√</u> No
Type: <u>har</u> Depth (inc Remarks:	rd pan hes): <u>2</u>						Hydric Soil	Present? Yes <u>√</u> No
Depth (incongress) Remarks:	rd pan ches): 2						Hydric Soil	Present? Yes <u>√</u> No
Type: har Depth (inc Remarks:  YDROLOG Wetland Hyd	GY Irology Indicators		d, check all that ann	nk/\				
Type: har Depth (inc Remarks:  YDROLOG Wetland Hyd Primary Indic	GY  Irology Indicators ators (minimum of o		d; check all that app	* *			Secon	dary Indicators (2 or more required)
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Type: har Depth (inc Remarks:  YDROLOG Wetland Hyd Primary Indic Surface \( \) High Wat Saturatio Water Ma Sedimen Drift Dep V Surface \( \) Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pr	GY Irology Indicators ators (minimum of orwards) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver t Deposits (B2) (Noriver Soil Cracks (B6) on Visible on Aerial ained Leaves (B9) Vations: er Present? Present?	rine) Imagery (B' //es/	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface kplain in Re nches):	dor (C1) eres along ed Iron (Ci ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Secon  Di Cots (C3) Ci Si Si F	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Type: har Depth (inc Remarks:  YDROLOG Wetland Hyd Primary Indic Surface \( \) High Wat Saturatio Water Ma Sedimen Drift Dep \( \) Surface \( \) Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pr. (includes cap	GY  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver t Deposits (B2) (Noriver to Deposits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver to Deposits (B2) (Noriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (Minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1)	rine) Imagery (B' 'es 'es	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Secon  Di Cots (C3) Cots (C3) F/	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Type: har Depth (inc Remarks:  YDROLOG Wetland Hyd Primary Indic Surface V High Water Ma Sedimen Drift Dep V Surface S Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pr (includes cap Describe Rec	GY  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver t Deposits (B2) (Noriver to Deposits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver to Deposits (B2) (Noriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (Minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irology Indicators ators (minimum of or water (A1)	rine) Imagery (B' 'es 'es	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Secon  Di Cots (C3) Cots (C3) F/	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Type: har Depth (inc Remarks:  YDROLOG Wetland Hyd Primary Indic Surface \( \) High Wat Saturatio Water Ma Sedimen Drift Dep \( \) Surface \( \) Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pr. (includes cap	GY  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver t Deposits (B2) (Noriver to Deposits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irations:  Present?  Present?  esent?  illary fringe)	rine) Imagery (B' 'es 'es	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Secon  Di Cots (C3) Cots (C3) F/	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Type: har Depth (inc Remarks:  YDROLOG Wetland Hyd Primary Indic Surface V High Water Ma Sedimen Drift Dep V Surface S Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pr (includes cap Describe Rec	GY  Irology Indicators ators (minimum of or water (A1) ter Table (A2) on (A3) arks (B1) (Nonriver t Deposits (B2) (Noriver to Deposits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial cained Leaves (B9)  Irations:  Present?  Present?  esent?  illary fringe)	rine) Imagery (B' 'es 'es	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex  No ✓ Depth (ir  No ✓ Depth (ir	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Secon  Di Cots (C3) Cots (C3) F/	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramer	to County	Sampling Date:11/11/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point:136
Investigator(s): L. Burris and A. Sennett	Section, Township, Ran	ge: <u>Township 7N / Ra</u>	nge 7E / Section 02
Landform (hillslope, terrace, etc.): Hilltop	Local relief (concave, c	onvex, none): concave	Slope (%):0
Subregion (LRR): Lat: 38	3.4818976	Long: -121.1855596	Datum: WGS84
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slopes			
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology significantl			
Are Vegetation, Soil, or Hydrology naturally pr			
SUMMARY OF FINDINGS – Attach site map showin	g sampling point io	cations, transects	, important reatures, etc.
Hydrophytic Vegetation Present? Yes ✓ No		Area	
Hydric Soil Present? Yes _ ✓ No	within a Wetland		No
Wetland Hydrology Present? Yes _ ✓ No			
Associated feature:P-01	r from livestack tra	ugh at top of drain	2270
Pond at base of drainage - appears to recieve wate	r from livestock tro	ough at top of drain	iage
VEGETATION – Use scientific names of plants.			
	Dominant Indicator Species? Status	Dominance Test work	
1		Number of Dominant Sp That Are OBL, FACW, of	
2.			
3		Total Number of Domin- Species Across All Stra	
4		Percent of Dominant Sp	
Continue/Chryth Stratum (Plot size)	_ = Total Cover		or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)  1		Prevalence Index worl	rsheet:
2			Multiply by:
3.			x 1 =
4.			x 2 =
5		FAC species	x 3 =
	_ = Total Cover		x 4 =
Herb Stratum (Plot size:)			x 5 =
1		Column Totals:	(A) (B)
3.		Prevalence Index	= B/A =
4.	F	Hydrophytic Vegetation	n Indicators:
5		Dominance Test is	
6		Prevalence Index is	
7			otations <sup>1</sup> (Provide supporting sor on a separate sheet)
8			phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	_ = Total Cover		(=
1			and wetland hydrology must
2.		be present, unless distu	rbed or problematic.
	_ = Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum 100 % Cover of Biotic	Crust 0	Vegetation Present? Yes	s No
Remarks:			
Bare ground due to severe cattle grazing and tran	npling		
Section 2 de la constant de la const	10		

		to the de	oth needed to docu			or confirm	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	7.5 YR 5/1	97	5 YR 4/6	3	С	М	Silty clay	
					_			
						-		
					·			_
					·			
					. ———			
					. —			
					·			
			I=Reduced Matrix, C			ed Sand G		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
-		able to all	I LRRs, unless othe		ea.)			•
Histosol	oipedon (A2)		Sandy Red Stripped M	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu		al (F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)						Other (E	explain in Remarks)	
	uck (A9) ( <b>LRR D</b> )		Redox Dar		. ,			
	d Below Dark Surfac	e (A11)	Depleted D				31 - 27 1	Chardragh of a constation and
	ark Surface (A12)  Mucky Mineral (S1)		Redox Dep Vernal Poo		F8)			f hydrophytic vegetation and ydrology must be present,
	Bleyed Matrix (S4)		vernai i oc	ns (1 <i>3)</i>				turbed or problematic.
	Layer (if present):							•
Type: Cla	ay							
Depth (in	ches): <u>6</u>						Hydric Soil F	Present? Yes No _ ✓
Remarks:								
HYDROLO	GY							
	drology Indicators:	<u> </u>						
_			ed; check all that app	ly)			Second	lary Indicators (2 or more required)
	Water (A1)	•	Salt Crust					ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturation			Aquatic Ir		es (B13)			ft Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonrive</b> r	rine)	Hydrogen	Sulfide O	dor (C1)		Dra	ainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized	Rhizosphe	res along	Living Roo	ots (C3) Dry	/-Season Water Table (C2)
Drift Dep	posits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C	4)		ayfish Burrows (C8)
	Soil Cracks (B6)					d Soils (C	· —	turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (E	· —					allow Aquitard (D3)
· <u></u>	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FA	C-Neutral Test (D5)
Field Obser								
Surface Wat			No <u>✓</u> Depth (ir					
Water Table			No <u>✓</u> Depth (ir					
Saturation P (includes car		/es <u> </u>	No Depth (ir	nches):		Wetl	and Hydrology	Present? Yes No
		n gauge, m	onitoring well, aerial	photos, pr	evious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	nty: Sacrame	11/11/2020				
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	140
Investigator(s): L. Burris and A. Sennet		Section,	Township, Ra	nge: Township 7N / Ra	ange 7E / Sectio	n 11
Landform (hillslope, terrace, etc.): flatlands		Local re	elief (concave,	convex, none): convex	Slo	ope (%):0
Subregion (LRR):	Lat: 38.4	479422	09	Long: -121.1844449	Datı	<sub>ım:</sub> WGS84
Soil Map Unit Name: San Joaquin silt loam, 3 - 8% slope				-		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrologysi				"Normal Circumstances"		✓ No
Are Vegetation, Soil, or Hydrologyn				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map					,	eatures, etc.
Hydrophytic Vegetation Present? Yes No				<u> </u>	<u> </u>	·
Hydric Soil Present? Yes   ✓ No.			the Sampled		/	
Wetland Hydrology Present? Yes   ✓ No.		W	rithin a Wetlar	nd? Yes	No <u>√</u>	_
Remarks:		I				
Associated feature: SW-38						
VEGETATION – Use scientific names of plant	·e					
VEGETATION 036 3616111116 Harries of plant	Absolute	Domin:	ant Indicator	Dominance Test work	ksheet:	
Tree Stratum (Plot size:)			s? Status	Number of Dominant S		
1				That Are OBL, FACW,		(A)
2				Total Number of Domir		
3				Species Across All Stra	ata:	2 (B)
4				Percent of Dominant S	pecies	
Sapling/Shrub Stratum (Plot size:)		= lotal	Cover	That Are OBL, FACW,	or FAC:	0 (A/B)
1				Prevalence Index wor	rksheet:	
2				Total % Cover of:	Multip	ly by:
3				OBL species	x 1 =	
4				FACW species		
5				FAC species		
Herb Stratum (Plot size: 5m x 5m )		= Total	Cover	FACU species		
1. Bromus hordeaceus	50	Υ	FACU	Column Totals:		
2. Elymus caput-medusae	5	N	NL	Column Totals.	(A)	(B)
3. Festuca perennis	5	N	FAC	Prevalence Index	x = B/A =	
4. Holocarpha virgata	20	Y	NL_	Hydrophytic Vegetati		
5				Dominance Test is		
6				Prevalence Index i		
7				Morphological Ada data in Remark	aptations" (Provide is or on a separate	
8				Problematic Hydro	phytic Vegetation	<sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		= Total	Cover			
1				<sup>1</sup> Indicators of hydric so		
2				be present, unless dist	urbed or problema	atic.
		= Total	Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust	0		es No _	✓
Remarks:				1		
thatch cover is thick						

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			x Feature	S1		_				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks			
0-2	7.5 Y/R 3/2	95	5 YR 5/6	_ <u>5</u>	<u>C</u>	PL/M	clay silt				
1Tunos C. Co	noontration D Don	lotion DM	Dadwood Motrix C	Covers	d or Coot		21 000	tion, DI Doro Lining M Motrix			
			=Reduced Matrix, C: I LRRs, unless othe			eu Sanu Gi		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :			
Histosol		abic to an	Sandy Red		cu.,			ick (A9) (LRR C)			
	,							ick (A9) (LRR B)			
<ul><li>Histic Epipedon (A2)</li><li>Black Histic (A3)</li><li>Loamy Mucky Mineral (F1)</li></ul>								d Vertic (F18)			
Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)								ent Material (TF2)			
	Layers (A5) ( <b>LRR</b> (	C)	Depleted M		(1 _)			explain in Remarks)			
	ck (A9) ( <b>LRR D</b> )	•,	✓ Redox Dari	. ,	(F6)		0 (2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Below Dark Surfac	e (A11)	Depleted D		. ,						
	rk Surface (A12)	, ,	✓ Redox Dep	ressions (	F8)		<sup>3</sup> Indicators of	f hydrophytic vegetation and			
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland hy	drology must be present,			
	leyed Matrix (S4)						unless dis	turbed or problematic.			
	ayer (if present):										
Type: cla	У										
Depth (inc	ches): 2						Hydric Soil P	resent? Yes <u>√</u> No			
Remarks:							1				
	ov.										
HYDROLO											
•	drology Indicators:										
Primary Indic	ators (minimum of c	one require	ed; check all that app	y)				ary Indicators (2 or more required)			
Surface	Water (A1)		Salt Crust	(B11)			·	ter Marks (B1) (Riverine)			
High Wa	ter Table (A2)		Biotic Cru				Sec	diment Deposits (B2) (Riverine)			
Saturation	on (A3)		Aquatic In	vertebrate	es (B13)		Drif	ft Deposits (B3) (Riverine)			
Water M	arks (B1) ( <b>Nonriver</b>	rine)	Hydrogen	Sulfide O	dor (C1)		Dra	ninage Patterns (B10)			
Sedimen	it Deposits (B2) (No	nriverine)	✓ Oxidized I	Rhizosphe	res along	Living Roo	ots (C3) Dry	y-Season Water Table (C2)			
Drift Dep	osits (B3) (Nonrive	rine)	Presence	of Reduce	ed Iron (C	4)	Cra	ayfish Burrows (C8)			
Surface	Soil Cracks (B6)		Recent Iro	n Reducti	ion in Tille	ed Soils (C6	s) Sat	curation Visible on Aerial Imagery (C9)			
Inundation	on Visible on Aerial	Imagery (E	37) Thin Muck	Surface (	(C7)		Sha	allow Aquitard (D3)			
Water-St	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		FA0	C-Neutral Test (D5)			
Field Observ	/ations:										
Surface Water	er Present? Y	'es	No <u>✓</u> Depth (in	ches):							
Water Table			No ✓ Depth (in								
Saturation Pr			No ✓ Depth (in				and Hydrology	Present? Yes No			
(includes cap		C3	TVO Deptil (iii			_   ****	and Hydrology	11030111: 103 <u>v</u> 110			
		n gauge, m	onitoring well, aerial	photos, pr	evious in	spections),	if available:				
Remarks:											

Project/Site: Sloughhouse Solar Energy Project	Sacramer	nto County	Sampling Date: <u>11/12/2020</u>		
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 141
Investigator(s): A. Godinho and A. Sennett		Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 02
Landform (hillslope, terrace, etc.): <u>Terrace</u>	I	_ocal relief	(concave, c	convex, none): Concave	Slope (%):
Subregion (LRR):	Lat: 38.4	8295997		Long: -121.1866172	Datum: WGS84
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent s					
Are climatic / hydrologic conditions on the site typical for this tir					
Are Vegetation, Soil, or Hydrology sign					oresent? Yes No
Are Vegetation, Soil, or Hydrology natu			(If ne	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	owing	samplin	g point lo	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓ No   Yes  ✓ No   No   No   No   No   No   No   N			e Sampled in a Wetlan		No
Associated feature: SW-42 Microdepression previously mapped by SSHO	CP				
VEGETATION – Use scientific names of plants.	•				
Tree Stratum         (Plot size:)         %           1	6 Cover		Status	Dominance Test work  Number of Dominant Sp That Are OBL, FACW, or	pecies
2				Total Number of Domin Species Across All Stra	
4		= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	
1				Prevalence Index wor	ksheet:
2				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4				FACW species	x 2 =
5					x 3 =
Herb Stratum (Plot size: 1m x 1m )	0	= Total Co	ver		x 4 =
1. Hordeum marinum	30	Υ	FAC		x 5 =
2. Rumex dentatus		N	FACU	Column Totals:	(A) (B)
3. Briza minor	_	N	FAC	Prevalence Index	= B/A =
4. Festuca myuros		N	FACU	Hydrophytic Vegetation	
5. Festuca perennis	5	N	FAC	✓ Dominance Test is	
6. Holocarpha virgata	15	N	UPL	Prevalence Index is	s ≤3.0 <sup>1</sup>
7. Bromus hordeaceus	_	N	FACU		ptations <sup>1</sup> (Provide supporting
8					s or on a separate sheet)
_	80	= Total Co	ver	Problematic Hydrop	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum         (Plot size:)           1				<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.
		= Total Co	ver	Hydrophytic	
% Bare Ground in Herb Stratum 20 % Cover of				Vegetation	s No
Remarks:				<u> </u>	

	•	to the dep	th needed to docu			or confirm	n the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 YR 3/2	95	7.5 YR 4/6	<u> </u>		PL/M	Silty clay	
						· ——		
-				_		· ——		
						· ——		
				_				
	oncentration, D=Dep					ed Sand Gr		ation: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all			ted.)			for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,				uck (A9) (LRR C)
	pipedon (A2) istic (A3)		Stripped M Loamy Mu		al (F1)		<del></del>	uck (A10) ( <b>LRR B</b> ) ad Vertic (F18)
	en Sulfide (A4)							rent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)								Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		✓ Redox Dar					
	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		(F8)			of hydrophytic vegetation and
	Mucky Mineral (S1) Bleyed Matrix (S4)		Vernal Poo	ols (F9)				ydrology must be present, sturbed or problematic.
	Layer (if present):						uniess un	sturbed of problematic.
Type: ha								
Depth (in			<del></del>				Hydric Soil I	Present? Yes √ No
Remarks:			<del></del> -				1.,	
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one require	d; check all that app	oly)			Second	dary Indicators (2 or more required)
_	Water (A1)		Salt Crus	, ,			· · · · · · · · · · · · · · · · · · ·	ater Marks (B1) ( <b>Riverine</b> )
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)				ediment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic Ir		` '		<del></del>	ift Deposits (B3) (Riverine)
	larks (B1) (Nonriver		Hydrogen				· · · · · · · · · · · · · · · · · · ·	ainage Patterns (B10)
	nt Deposits (B2) (No		<u>√</u> Oxidized		•	•		y-Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence					ayfish Burrows (C8)
	Soil Cracks (B6) on Visible on Aerial	Imagany (P		k Surface		ed Soils (C6		aturation Visible on Aerial Imagery (C9) allow Aquitard (D3)
· · · · · · · · · · · · · · · · · · ·	stained Leaves (B9)	illiagery (b	, <u>—</u>	κ Suriace αplain in Re				AC-Neutral Test (D5)
Field Obser	( )			.piaiii iii i k	- Indirito)			100110011011101110111011101110111011101110111011101110111011101111
Surface Wat		'es	No <u>√</u> Depth (ir	nches):				
Water Table			No <u>√</u> Depth (ir					
Saturation P			No <u>√</u> Depth (ir				and Hydrology	Present? Yes No
(includes car	oillary fringe)							1103cm: 103 <u>-v</u> 110 <u></u>
Describe Re	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	Sacramer	nto County	Samp	oling Date: _	11/12	/2020		
Applicant/Owner: D.E. Shaw Renewable Investments				State: <b>C</b>	CA Samp	oling Point: _	14	12
Investigator(s): A. Godinho and A. Sennett	Section	n, Tow	nship, Ran	ge: Township 71	N / Range 71	E / Section	11	
Landform (hillslope, terrace, etc.):	Local	relief (	concave, c	onvex, none):		Slop	pe (%):	
Subregion (LRR): Lat: 3								
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slope	es .			NWI c	lassification:	n/a		
Are climatic / hydrologic conditions on the site typical for this time of								
Are Vegetation, Soil, or Hydrology significant				Normal Circumsta			/ No	)
Are Vegetation, Soil, or Hydrology naturally p				eded, explain any				
					-4	1-		
SUMMARY OF FINDINGS – Attach site map showin	ng Sami	piing	) point ic	cations, trans	sects, imp	Ortant le	atures	s, etc.
Hydrophytic Vegetation Present? Yes No✓		Is the	Sampled	Area				
Hydric Soil Present? Yes No	_		n a Wetlan		s 1	No <u>√</u>	_	
Wetland Hydrology Present? Yes No _✓  Remarks:							· 	
Associated feature: SW-42								
VEGETATION – Use scientific names of plants.								
	ite Domi rer Speci			Dominance Tes				
1				Number of Domi That Are OBL, F.				(A)
2.								()
3				Total Number of Species Across		3		(B)
4				Percent of Domin				
Conting/Chruth Ctratum (Diet size)	= Tota	al Cov	er	That Are OBL, F.			<u> </u>	(A/B)
Sapling/Shrub Stratum (Plot size:)  1			ŀ	Prevalence Inde	ex worksheet			
2				Total % Cov			v bv:	
3.					0			
4.				FACW species	0	x 2 =	0	_
5					0		0	_
0	= Tota	al Cov	er	FACU species			100	_
Herb Stratum (Plot size: 5m x 5m )  1. Elymus caput-medusae 50	Υ	,	UPL	UPL species			375	-
			FACU	Column Totals:	100	(A)	475	_ (B)
		,	UPL	Prevalence	e Index = B/A	. = 4.	75	_
4.				Hydrophytic Ve	getation Indi	cators:		
5				Dominance				
6				Prevalence				
7				Morphologic	al Adaptation emarks or on	s¹ (Provide	support	ing
8				Problematic			,	n)
Woody Vine Stratum (Plot size:)	<u>)                                    </u>	al Cov	er		) α. ορ)ο	r ogotation	(=/\p/\alpha	.,
1				<sup>1</sup> Indicators of hyd				nust
2.				be present, unles	ss disturbed o	or problemat	tic.	
	= Tota		er	Hydrophytic				
% Bare Ground in Herb Stratum 0	c Crust	0		Vegetation Present?	Yes	No	✓	
Remarks:								

Depth (inches)	Matrix						
(	Color (moist)	%	Redox Feature Color (moist) %		Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/2	100	·			Silty clay	
		- <del></del> -					
				_	-	-	
	-	<del> </del>				<u> </u>	
				_			
				_			
1Typo: C-C	concentration D-Don	lotion PM-I	Reduced Matrix, CS=Covere	od or Coata	d Sand G	rains <sup>2</sup> l oc	ation: PL=Pore Lining, M=Matrix.
			RRs, unless otherwise no		u Sanu Gi		for Problematic Hydric Soils <sup>3</sup> :
Histoso			Sandy Redox (S5)	,			uck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped Matrix (S6)				uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mucky Miner	al (F1)		·	ed Vertic (F18)
	en Sulfide (A4)		Loamy Gleyed Matri:				rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted Matrix (F3)				Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dark Surface	(F6)		,	-
Deplete	d Below Dark Surfac	e (A11)	Depleted Dark Surfa	ce (F7)			
	ark Surface (A12)		Redox Depressions	(F8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pools (F9)				lydrology must be present,
	Gleyed Matrix (S4)					unless di	sturbed or problematic.
	Layer (if present):						
Type: <u>ha</u>							
Depth (in	iches): 2					Hydric Soil	Present? Yes No <u>√</u>
Remarks:							
-	drology Indicators:						
Wetland Hy	drology Indicators:		check all that apply)				dary Indicators (2 or more required)
Wetland Hy Primary Indi Surface	rdrology Indicators: cators (minimum of c Water (A1)		Salt Crust (B11)			W	ater Marks (B1) (Riverine)
Wetland Hy Primary Indi Surface	rdrology Indicators: cators (minimum of c					W	•
Wetland Hy Primary Indi Surface	rdrology Indicators: cators (minimum of c Water (A1) ater Table (A2)		Salt Crust (B11)	es (B13)		W	ater Marks (B1) (Riverine)
Wetland Hy Primary Indi Surface High Wi Saturati	rdrology Indicators: cators (minimum of c Water (A1) ater Table (A2)	one required:	Salt Crust (B11) Biotic Crust (B12)	, ,		W Se Dr	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Wetland Hy Primary Indi Surface High Water Mater	cators (minimum of cators) Water (A1) ater Table (A2) ion (A3)	one required:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C	odor (C1)	Living Roc	W Se Dr Dr	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Wetland Hy Primary Indi Surface High Water M Sedime	cators (minimum of c Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver	ne required; ine) nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C	odor (C1) eres along	•	W Se Dr Dr ots (C3) Dr	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De	cators (minimum of control water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ont Deposits (B2) (No	ne required; ine) nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho	Odor (C1) eres along ed Iron (C4	ł)	W Se Dr Dr Dr Cr	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Surface	rdrology Indicators: cators (minimum of control water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver)	ine) nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho	odor (C1) eres along ed Iron (C <sup>2</sup> tion in Tille	ł)	W Se Dr Dr ots (C3) Dr Cr Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Surface Inundat	cators (minimum of cators: cators (minimum of cators (Mater (A1)) atter Table (A2) from (A3)  Marks (B1) (Nonriver of Deposits (B2) (Nonriver of Cators) (B3) (Nonriver of Cators)	ine) nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho	Odor (C1) eres along ed Iron (C2 tion in Tilled (C7)	ł)	W Se Dr Dr ots (C3) Dr Cr Cr Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Surface Inundat	rdrology Indicators: cators (minimum of control of the Water (A1) ater Table (A2) from (A3) Marks (B1) (Nonriver of the Deposits (B2) (Nonriver of the Soil Cracks (B6) ion Visible on Aerial of Stained Leaves (B9)	ine) nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface	Odor (C1) eres along ed Iron (C2 tion in Tilled (C7)	ł)	W Se Dr Dr ots (C3) Dr Cr Cr Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De Surface Inundat Water-S	rdrology Indicators: cators (minimum of content of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B3) (Nonriver of the Water (B4)) ion Visible on Aerial (B4) Stained Leaves (B9) rvations:	ine) nriverine) rine) Imagery (B7	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface	odor (C1) eres along ed Iron (C4 tion in Tiller (C7) emarks)	l) d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Cr Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Water Management Sedime Drift De Surface Inundat Water-S Field Observance	rdrology Indicators: cators (minimum of content of the Water (A1) ater Table (A2) fron (A3) Marks (B1) (Nonriver int Deposits (B2) (No posits (B3) (Nonriver is Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) rvations: ter Present?	ine) nriverine) rine) Imagery (B7	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	l) d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Cr Se	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Surface Inundat Water-S Field Obser	redrology Indicators: cators (minimum of content of the Water (A1) ater Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver o	ine) nriverine) rine) Imagery (B7)  'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C <sup>2</sup> tion in Tilled (C7) emarks)	I) d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Se Sf FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	redrology Indicators: cators (minimum of content of the Water (A1) atter Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver	ine) nriverine) rine) Imagery (B7)  'es N 'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Si Se FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	redrology Indicators: cators (minimum of content of the Water (A1) atter Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver	ine) nriverine) rine) Imagery (B7)  'es N 'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Si Se FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	redrology Indicators: cators (minimum of content of the Water (A1) atter Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver	ine) nriverine) rine) Imagery (B7)  'es N 'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Si Se FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi  Surface High Water Now Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca	redrology Indicators: cators (minimum of content of the Water (A1) atter Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver	ine) nriverine) rine) Imagery (B7)  'es N 'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Si Se FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water Management Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes can Describe Ref	redrology Indicators: cators (minimum of content of the Water (A1) atter Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver	ine) nriverine) rine) Imagery (B7)  'es N 'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Si Se FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water Management Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes can Describe Ref	redrology Indicators: cators (minimum of content of the Water (A1) atter Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver	ine) nriverine) rine) Imagery (B7)  'es N 'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Si Se FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water Management Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes can Describe Ref	redrology Indicators: cators (minimum of content of the Water (A1) atter Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver	ine) nriverine) rine) Imagery (B7)  'es N 'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Si Se FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation F (includes ca Describe Re	redrology Indicators: cators (minimum of content of the Water (A1) atter Table (A2) fon (A3) Marks (B1) (Nonriver of the Water (B2) (Nonriver of the Water (B3) (Nonriver of the Water (B4) (Nonriver	ine) nriverine) rine) Imagery (B7)  'es N 'es N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Hydrogen Sulfide C Oxidized Rhizospho Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in R	odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	d Soils (C6	W Se Dr Dr ots (C3) Dr Cr Si Se FA	ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	Cit	City/County: Sacramento County Sampling Date: 11/12/2020						
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Poi	nt:144	4	
Investigator(s): A. Godinho and A. Sennett								
Landform (hillslope, terrace, etc.):	—— Lí	ocal relief	(concave, c	convex, none): Concav	 /e	Slope (%):	2	
Subregion (LRR): Lat								
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slo								
Are climatic / hydrologic conditions on the site typical for this time								
Are Vegetation, Soil, or Hydrology signific				Normal Circumstances		✓ No		
Are Vegetation, Soil, or Hydrology natural								
SUMMARY OF FINDINGS – Attach site map show	wing s	ampling	g point lo	ocations, transect	ts, important	features,	etc.	
Hydrophytic Vegetation Present? Yes No								
Hydric Soil Present? Yes ✓ No			Sampled n a Wetlan		No <u></u> ✓	/		
Wetland Hydrology Present? Yes ✓ No		Withii	ii a vvetiali	iu: Tes	140			
Remarks:								
At base of slopes, east of basin								
Associated feature: n/a								
VEGETATION – Use scientific names of plants.								
		Dominant Species?		Dominance Test wo				
1				Number of Dominant That Are OBL, FACW		2 (,	(Δ)	
2							., ()	
3.				Total Number of Dom Species Across All St		4 (	(B)	
4						\	,	
		Total Cov		Percent of Dominant That Are OBL, FACW		.5 (	(A/B)	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wo				
1				Total % Cover of		Itiply by:		
2					x 1 = _			
3				FACW species 0				
5					x 3 =			
		Total Cov	er	FACU species 25				
Herb Stratum (Plot size: 5m x 5m )					x 5 =			
	25	Y	UPL	Column Totals:	100 (A) _	380	(B)	
	25	Y	FACU		D/A	3.8		
	<u> 25                                    </u>	<u>Y</u>	<u>FAC</u>		ex = B/A =	-		
	2.5		FAC	Hydrophytic Vegeta Dominance Test				
	2.5			Prevalence Index				
6				Morphological Ac		vide supportin	na	
7				data in Remai	rks or on a separ	rate sheet)	9	
8		Total Cov	vor	Problematic Hydi	rophytic Vegetati	ion¹ (Explain)	,	
Woody Vine Stratum (Plot size:)		Total Gov	Ci					
1				<sup>1</sup> Indicators of hydric s be present, unless dis			ıst	
2				, ,		mauc.		
	0 =	Total Cov	er	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum	otic Crus	st0			/es No	<u>√</u>		
Remarks:								

		to the dep	oth needed to docu			or confirm	n the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 3/2	97	5 YR 5/8	3		PL	С	
				_	-			
					-			
-						· <del></del>		
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RM	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand G	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	rwise not	ted.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,				uck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M					uck (A10) (LRR B)
	istic (A3)		Loamy Mu					d Vertic (F18)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b> (	C)	Loamy Gle Depleted M					rent Material (TF2) Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	0)	✓ Redox Dar				Outlot (E	Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted D		` '			
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,
	Bleyed Matrix (S4)  Layer (if present):						unless dis	turbed or problematic.
Type: ha								
Depth (in							Hydric Soil F	Present? Yes ✓ No
Remarks:	cries). <u>3</u>		<del></del>				Hydric 30ii F	Present? Yes <u>√</u> No
itemarks.								
HYDROLO								
_	drology Indicators:						_	
	-	one require	d; check all that app					lary Indicators (2 or more required)
	Water (A1)		Salt Crus	` ,				ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru		(5.40)			diment Deposits (B2) (Riverine)
Saturation	` ,	• \	Aquatic Ir				<del></del>	ft Deposits (B3) (Riverine)
	larks (B1) (Nonriver		Hydrogen  ✓ Oxidized			Living Do		ainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b> posits (B3) ( <b>Nonrive</b>		Presence		•	•		y-Season Water Table (C2) ayfish Burrows (C8)
	Soil Cracks (B6)	iiie)				d Soils (Ce		turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (F		k Surface				allow Aguitard (D3)
· · · · · · · · · · · · · · · · · · ·	stained Leaves (B9)		· —	plain in Re				C-Neutral Test (D5)
Field Obser	vations:			•	,			. ,
Surface Wat	er Present?	'es	No <u>✓</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				land Hydrology	Present? Yes No
(includes car	oillary fringe)							
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/Co	ounty: Sacran	nento County	Sampling Date: 11/12/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	Sampling Point: 145
Investigator(s): A. Godinho and A. Sennett	Section	n, Township, F	Range: Township 7N / Ra	nge 7E / Section 15
Landform (hillslope, terrace, etc.): Hillslope	Local	relief (concave	e, convex, none): None	Slope (%):3
Subregion (LRR): Lat:	38.46704	311	Long: -121.1914261	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slop	oes		NWI classific	cation: n/a
Are climatic / hydrologic conditions on the site typical for this time of				
Are Vegetation, Soil, or Hydrology significa				present? Yes No
Are Vegetation, Soil, or Hydrology naturally			needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map show				
	.	pinig ponii		
Hydrophytic Vegetation Present? Yes No✓		Is the Sample	ed Area	
Hydric Soil Present? Yes _ ✓ No  Wetland Hydrology Present? Yes _ ✓ No		within a Wet	land? Yes	No <u>√</u>
Remarks:				
Associated feature: FEW-01				
VECTATION Lies esigntific names of plants				
VEGETATION – Use scientific names of plants.	luta Domi	nant Indicato	or Dominance Test work	rohooti
		ies? Status		
1				or FAC:1 (A)
2			Total Number of Domin	nant
3				
4			Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size:)	<u>0</u> = Tota	al Cover	That Are OBL, FACW,	or FAC:30 (A/B)
1			Prevalence Index wor	ksheet:
2.			Total % Cover of:	Multiply by:
3			OBL species	x 1 =
4				x 2 =
5				x 3 = 150
Herb Stratum (Plot size: 1m x 1m )	<u>0</u> = Tota	al Cover	FACU species 25 UPL species 25	
	0 Y	FAC	<ul> <li>Column Totals: 10</li> </ul>	
	.5 Y	FACU		70 (A) 373 (B)
3. Holocarpha virgata 2.	5 Y	UPL	Prevalence Index	x = B/A =  3.75
4			Hydrophytic Vegetation	
5			Dominance Test is	
6			Prevalence Index is	
7			Morphological Ada data in Remark	ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8			Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	00 = Tota	ai Cover		
1				il and wetland hydrology must
2			be present, unless distu	urbed or problematic.
	<u>0</u> = Tota	al Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum	tic Crust	0		es No <u>√</u>
Remarks:				

Depth (inches)	Color (moist)	%	Color (moist)	lox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10 YR 4/2	90	7.5 YR 5/8	10	C	PL	Si	Nemarks
<u>J-4</u>	10 fK 4/2	90	7.5 11 5/6		<u> </u>	<u>PL</u>	31	
					. ———			
					·			
			=Reduced Matrix, C			ed Sand G		ation: PL=Pore Lining, M=Matrix.
•		cable to all	LRRs, unless other		ed.)			for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Re					uck (A9) (LRR C)
HISTIC ED Black His	ipedon (A2)		Stripped N		J (E1)			uck (A10) ( <b>LRR B</b> ) ed Vertic (F18)
	n Sulfide (A4)			icky Minera eyed Matrix				rent Material (TF2)
	Layers (A5) (LRR	C)		Matrix (F3)	(1 2)			Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )	<b>O</b> )	✓ Redox Da		(F6)			Explain in Nomanio)
	Below Dark Surface	ce (A11)		Dark Surfac				
	rk Surface (A12)	, ,	Redox De	pressions (	F8)		<sup>3</sup> Indicators of	of hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Po	ols (F9)			wetland h	nydrology must be present,
	leyed Matrix (S4)						unless di	sturbed or problematic.
	ayer (if present):							
Type: har	d pan							
Type. Han	- p							
Depth (inc			<u> </u>				Hydric Soil	Present? Yes √ No
,							Hydric Soil	Present? Yes <u>√</u> No
Depth (inc	hes): <u>4</u>						Hydric Soil	Present? Yes <u>√</u> No
Depth (incorrection) Remarks:	hes): <u>4</u>						Hydric Soil	Present? Yes <u>√</u> No
Depth (incomments) Remarks:  YDROLOG Wetland Hyd	GY Irology Indicators							
Depth (incomments) Remarks:  YDROLOG Wetland Hyd	GY Irology Indicators		d; check all that app	oly)				Present? Yes √ No
Depth (inconstruction Depth (inconstruction	GY Irology Indicators ators (minimum of Water (A1)		Salt Crus	st (B11)			Secon	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Depth (incomplete incomplete inco	GY Irology Indicators		•	st (B11)			Secon	dary Indicators (2 or more required)
Depth (inconstruction Depth (inconstruction	GY Irology Indicators ators (minimum of water (A1) ter Table (A2)		Salt Crus	st (B11) ust (B12)	es (B13)		Secon. W Se	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Depth (incomplete property)  YDROLOG  Wetland Hyde  Primary Indic  Surface V  High War  Saturation  Water Mi	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) in (A3) arks (B1) (Nonrive	one required	Salt Crus Biotic Cru Aquatic I Hydroge	st (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (incomplete property)  Primary Indicomplete primary Indicomplete Indicom	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) in (A3)	one required	Salt Crus Biotic Cru Aquatic I Hydrogei	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	-	Secon W Se Dr Dr Dr Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2)
Depth (incomplete primary Indicomplete primary Indicate prima	GY Irology Indicators ators (minimum of orward (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (Nonrive osits (B3) (Nonrive	one required rine) onriverine)	Salt Crus Biotic Cru Aquatic I Hydrogei Voxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	4)	Secon W Se Dr Dr Dr Dts (C3) Dr Cr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8)
Depth (incomplete primary Indicomplete primary Indicate	GY Irology Indicators ators (minimum of an American (Mater (A1)) ter Table (A2) in (A3) arks (B1) (Nonrive osits (B2) (Nonrive osits (B3) (Nonrive osits (B3) (Nonrive osits (B6))	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic I Hydroge Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C ion in Tille	4)	Secondary  W Se Dr Dr Cots (C3) Dr Cr Se Secondary	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9
Depth (incomplete property)  Primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicate primary Ind	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) in (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent In Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (incomplete property)  Primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicomplete primary Indicate primary Ind	GY Irology Indicators ators (minimum of an American (Mater (A1)) ter Table (A2) in (A3) arks (B1) (Nonrive osits (B2) (Nonrive osits (B3) (Nonrive osits (B3) (Nonrive osits (B6))	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent In Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9
Primary Indic Surface V High Water May Sedimen Drift Dep Surface Surfa	Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1) (Nonrive t Deposits (B2) (Norive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) vations:	rine) priverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei ✓ Oxidized Presence Recent Ii Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface e	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (incomplete incomplete inco	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial ained Leaves (B9) vations:	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydroge ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (E:	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Primary Indic  Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water	GY Irology Indicators ators (minimum of a Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial ained Leaves (B9) vations:	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei ✓ Oxidized Presence Recent Ii Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second  W Second  Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (incomplete property)  Primary Indicomplete p	GY  Irology Indicators ators (minimum of a Water (A1) ter Table (A2) in (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) vations: er Present? Present?	rine) onriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydroge ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (E:	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce con Reducti ck Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second  W Second  Second  Color Second  Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (incomplete property)  Primary Indicomplete p	GY Irology Indicators ators (minimum of an ators (m	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic I Hydrogei ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti sk Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second   W   Second   W   Second   Second   W   Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incomplete property)  Primary Indicomplete p	GY Irology Indicators ators (minimum of an ators (m	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic I Hydroger Voxidized Presence Recent In Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti sk Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second   W   Second   W   Second   Second   W   Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incomplete incomplete inco	GY Irology Indicators ators (minimum of an ators (m	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic I Hydrogei ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti sk Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second   W   Second   W   Second   Second   W   Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incomplete property)  Primary Indicomplete p	GY Irology Indicators ators (minimum of an ators (m	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic I Hydrogei ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti sk Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second   W   Second   W   Second   Second   W   Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incomplete property)  Primary Indicomplete p	GY Irology Indicators ators (minimum of an ators (m	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic I Hydrogei ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti sk Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second   W   Second   W   Second   Second   W   Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incomplete property)  Primary Indicomplete p	GY Irology Indicators ators (minimum of an ators (m	rine) porriverine) erine) Imagery (B'	Salt Crus Biotic Cru Aquatic I Hydrogei ✓ Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti sk Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Second   W   Second   W   Second   Second   W   Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	(	City/Cou	<sub>nty:</sub> Sacran	nento County	Samplin	g Date: _	11/12	/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampline	g Point: _	14	16
Investigator(s): A. Godinho and A. Sennett	;	Section,	Township, F	Range: Township 7N /	<sup>/</sup> Range 7E /	Section	11	
Landform (hillslope, terrace, etc.): <u>Drainage</u>								5
Subregion (LRR):	Lat: 38.4	4677772	23	Long: -121.18486	58	Datun	n: WGS	584
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 309								
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, Soil, or Hydrologysi				e "Normal Circumstance			No	)
Are Vegetation, Soil, or Hydrologyn				needed, explain any an	·	·		
SUMMARY OF FINDINGS – Attach site map							atures	s, etc.
Hydrophytic Vegetation Present? Yes No	/			· · · · · · · · · · · · · · · · · · ·				
Hydric Soil Present? Yes No			the Sampl		N	,		
Wetland Hydrology Present? Yes No		W	rithin a Wet	land? Yes_	No			
Remarks:		· ·						
Point taken within feature previously mapp	ed by S	SHCP a	and/or w	ith aerial signatur	e showing	g satura	ation	
VEGETATION – Use scientific names of plant	s.							
	Absolute		ant Indicato		orksheet:			
			s? Status	- Number of Domina		0		( • )
1				_ That Are OBL, FAC	, vv, or FAC:	0		(A)
2				<ul><li>Total Number of Do</li><li>Species Across All</li></ul>		2		(B)
4								(D)
	0			Percent of Dominar That Are OBL, FAC		0		(A/R)
Sapling/Shrub Stratum (Plot size:)								(700)
1				Prevalence Index		N.A. alatim la	. h	
2					OT: X			
3				OBL species $0$ FACW species $0$				-
4.         5.					x			-
<u> </u>	0	= Total	Cover	FACU species 75			300	_
Herb Stratum (Plot size: 5m x 5m )				UPL species 25	X	5 =1	125	_
1. Holocarpha virgata		Y	UPL	Column Totals:	100 (A	)	125	_ (B)
2. Bromus hordeaceus				_ Prevalence In	dov D/A	4.7	25	
3. Lactuca serriola			UPL	Hydrophytic Vege				
4				Dominance Te		1015.		
5 6				Prevalence Ind				
7.				Morphological		(Provide s	support	ing
8.				data in Rem	narks or on a s	separate s	sheet)	
		= Total	Cover	Problematic Hy	drophytic Ve	getation' (	(Explair	า)
Woody Vine Stratum (Plot size:)				1 Indicators of hydrig	a a all and wat	and budge	ala au r	at
1				Indicators of hydric be present, unless				iust
2		= Total	Cavar	- Hydrophytic				
				Vegetation			,	
% Bare Ground in Herb Stratum	of Biotic Cı	rust	0	Present?	Yes	Nov		
Remarks:								

Profile Description: (Describe to the de	epth needed to document the indicator or	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks
<u>0-2</u> <u>10 YR 3/2</u> <u>100</u>		Silty clay
		··
. <u> </u>		
1		2
	M=Reduced Matrix, CS=Covered or Coated	
Hydric Soil Indicators: (Applicable to a		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
<ul><li>Histic Epipedon (A2)</li><li>Black Histic (A3)</li></ul>	<ul><li>Stripped Matrix (S6)</li><li>Loamy Mucky Mineral (F1)</li></ul>	2 cm Muck (A10) ( <b>LRR B</b> ) Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Reduced Verilo (F16)  Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) ( <b>LRR D</b> )	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
<sub>Type:</sub> hard pan		
Depth (inches): 2		Hydric Soil Present? Yes No✓
Remarks:		•
HYDROLOGY		
Wetland Hydrology Indicators:		
• •		0 1 1 1 1 1 1 1 1 1
Primary Indicators (minimum of one requir		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine		ving Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled S	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
	No Depth (inches):	
Water Table Present? Yes	No _ ✓ Depth (inches):	
	No ✓ Depth (inches):	Wetland Hydrology Present? Yes No✓
(includes capillary fringe)	monitoring well, aerial photos, previous inspe	setions   if available:
Describe Necorded Data (Stream gauge, I	nonitoring well, aerial priotos, previous inspe	colions, ii avaliabie.
Remarks:		

Project/Site: Sloughhouse Solar Energy Project	City/C	ounty:	Sacramer	nto County	Sampling Da	ate: <u>11/1</u> 2	2/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Po	oint:1	.47
Investigator(s): A. Godinho and A. Sennett	Section	on, Tov	wnship, Ran	ge: Township 7N / Ra	inge 7E / Sec	ction 11	
Landform (hillslope, terrace, etc.): Basin	Local	relief	(concave, c	onvex, none): Concave	<u>,</u>	Slope (%):	1
Subregion (LRR): Lat:	38.46762	2205		Long: -121.1813716	,	Datum: WG	iS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slo	pes			NWI classific	cation: n/a		
Are climatic / hydrologic conditions on the site typical for this time							
Are Vegetation, Soil, or Hydrology signification				Normal Circumstances"		sN	o
Are Vegetation, Soil, or Hydrology natural			(If nee	eded, explain any answe	ers in Remarks	s.)	
SUMMARY OF FINDINGS - Attach site map show				cations, transects	s, importan	it feature	s, etc.
Hydrophytic Vegetation Present? Yes ✓ No		Is the	e Sampled	Area			
Hydric Soil Present? Yes No✓		withi	n a Wetlan	d? Yes	No	✓	
Wetland Hydrology Present? Yes ✓ No Remarks:							
Within area previously mapped by SSHCP, betw	veen sol	ar ar	ravs				
Associated feature: n/a	veen son	ai ai	iays				
VEGETATION – Use scientific names of plants.	-lute Dec		La Parter I	Danis Tari			
	olute Dom over Spe			Dominance Test work  Number of Dominant S			
1				That Are OBL, FACW,		1	(A)
2				Total Number of Domir	nant		
3				Species Across All Stra		5	(B)
4				Percent of Dominant S			
Sapling/Shrub Stratum (Plot size:)	<u>0</u> = To	tal Co	/er	That Are OBL, FACW,	or FAC:	20	(A/B)
1				Prevalence Index wor	ksheet:		
2				Total % Cover of:	M	ultiply by:	
3					x 1 =		_
4				FACW species 0			_
5					x 3 =		_
Herb Stratum (Plot size: 1m x 1m )	<u>0</u> = To	tal Co	/er	FACU species 20 UPL species 20			_
	.0	Υ	FACU	Column Totals:			— (B)
2. Festuca perennis	10 \	Y	FAC	Column Totals.	(^)		_ (D)
3. Elymus caput-medusae 1	10	Υ	UPL	Prevalence Index	c = B/A =	2.1	_
4. Phalaris aquatica 1	LO	Υ	FACU	Hydrophytic Vegetati		j.	
5. <u>Lactuca serriola</u> 1	10	Υ	UPL	Dominance Test is			
6				✓ Prevalence Index			
7				Morphological Ada data in Remark			
8				Problematic Hydro			
Woody Vine Stratum (Plot size:)	<u>50                                    </u>	tai Co	/er				
1				<sup>1</sup> Indicators of hydric so			must
2				be present, unless dist	urbed or probl	ematic.	
	<u>0</u> = To	tal Co	/er	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 50 % Cover of Bio	otic Crust _	0			es <u>√</u> N	o	
Remarks:							
50% thatch in Herb Stratum							

Profile Desc	ription: (Describe	to the depti	n needed to docum	ent the indicator	or confirm	the absence	of indicators.)
Depth	Matrix (assist)			Features Trans 1	12	Taratana	Description
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-2	7.5 YR 3/1	100				<u>C</u>	
			_				
	-						
<sup>1</sup> Type: C=Co	oncentration D=Der	letion RM=I	Reduced Matrix, CS=	:Covered or Coate	d Sand Gr	ains <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
			RRs, unless otherv		a Garia Gri		for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redox				Muck (A9) (LRR C)
	pipedon (A2)		Stripped Mat	, ,			Muck (A10) ( <b>LRR B</b> )
Black Hi				/ Mineral (F1)			ed Vertic (F18)
	n Sulfide (A4)		Loamy Gleye				arent Material (TF2)
Stratified	Layers (A5) (LRR	C)	Depleted Ma	rix (F3)		Other	(Explain in Remarks)
	ick (A9) ( <b>LRR D</b> )		Redox Dark	` '			
	d Below Dark Surfac	e (A11)		k Surface (F7)		3	
	ark Surface (A12)		Redox Depre				of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pools	(F9)			hydrology must be present,
	leyed Matrix (S4)  ayer (if present):					uniess u	isturbed or problematic.
	rd/ clay pan						
			<del></del>			Usalvia Cail	Draggert 2 Vag No /
Depth (inc	cnes): <u>Z</u>					Hydric Soil	Present? Yes No✓
Remarks:							
HYDROLO	GY						
Wetland Hyd	drology Indicators:	<u> </u>					
_			check all that apply)			Secon	ndary Indicators (2 or more required)
	Water (A1)	one required,	Salt Crust (I				/ater Marks (B1) (Riverine)
	iter Table (A2)		Biotic Crust	,			ediment Deposits (B2) (Riverine)
Saturatio				ertebrates (B13)			rift Deposits (B3) ( <b>Riverine</b> )
· · · · · · · · · · · · · · · · · · ·	arks (B1) ( <b>Nonrive</b> i	ino)	Hydrogen S	, ,			rainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b>				Living Poo		ry-Season Water Table (C2)
	oosits (B3) ( <b>Nonrive</b>		<del></del>	Reduced Iron (C4	-		rayfish Burrows (C8)
	Soil Cracks (B6)	iiiie)		Reduction in Tilled			aturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagen/ (R7)			2 30113 (00		hallow Aquitard (D3)
<del></del>	tained Leaves (B9)	illiagely (D7)	<del></del>	ain in Remarks)			AC-Neutral Test (D5)
Field Observ	<u> </u>		Other (Expir	alli ili ivelilarks)			AC-Neutral Test (D3)
		/00 N	o / Donth (incl				
Surface Wate			o ✓ Depth (inch				
Water Table			o ✓ Depth (inch				
Saturation Projection (includes cap		/es N	o <u>✓</u> Depth (inch	nes):	_   Wetla	and Hydrolog	y Present? Yes <u>√</u> No
		n gauge, mor	nitoring well, aerial ph	notos, previous ins	pections), i	if available:	
	`	0 0 /	J / 1		, ,,		
Remarks:							
. comuno.							

Project/Site: Sloughhouse Solar Energy Project	C	ity/County:	Sacramer	nto County	_ Sampling Da	ate: 11/12	2/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Po	oint:1	48
Investigator(s): A. Godinho and A. Sennett	s	Section, To	wnship, Rar	nge: <mark>Township 7N / Ra</mark>	ange 7E / Sec	ction 11	
Landform (hillslope, terrace, etc.): Hillslope							2
Subregion (LRR):	at: 38.40	6711054		Long: -121.1801122		Datum: WG	S84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% sl	opes			NWI classifi	cation: n/a		
Are climatic / hydrologic conditions on the site typical for this tim							
Are Vegetation, Soil, or Hydrology signif				Normal Circumstances"		s V N	0
Are Vegetation, Soil, or Hydrology natur				eded, explain any answe	•		
SUMMARY OF FINDINGS – Attach site map sho			`				s etc
Account of the birds Account sice map since	, milg (		g point ic	Journal of the state of the sta	, importan	- Touture	<u> </u>
Hydrophytic Vegetation Present? Yes No		Is th	e Sampled	Area			
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No		with	in a Wetlan	d? Yes	No	✓	
Remarks:							
Within feature previously mapped by SSHCP							
Associated feature: n/a							
VEGETATION – Use scientific names of plants.							
<u> </u>	solute	Dominant	Indicator	Dominance Test wor	ksheet:		
		Species?		Number of Dominant S			
1				That Are OBL, FACW,		0	(A)
2				Total Number of Domii			
3				Species Across All Stra	ata:	2	(B)
4		= Total Co		Percent of Dominant S		0	(4 (5)
Sapling/Shrub Stratum (Plot size:)		= Total Co	vei	That Are OBL, FACW,	or FAC:		(A/B)
1				Prevalence Index wo			
2				Total % Cover of:			
3					x 1 =		_
4				FACW species 0	x 2 = x 3 =		_
5		= Total Co	· · ·	FAC species 10 35			_
Herb Stratum (Plot size: 5m x 5m )	:	= Total Co	vei	UPL species 55			_
1. Elymus caput-medusae	35	Υ	UPL	Column Totals: 1		455	— (B)
2. Bromus hordeaceus	35	Υ	FACU			4.5	_ ( /
3. <u>Festuca perennis</u>	10	N	FAC	Prevalence Index			_
4. Avena fatua	10	<u>N</u>	<u>UPL</u>	Hydrophytic Vegetati		i:	
5. Holocarpha virgata	10	N	UPL	<ul><li>Dominance Test is</li><li>Prevalence Index</li></ul>			
6						wide sunnor	tina
7				Morphological Ada data in Remark	s or on a sepa	arate sheet)	ung
8		= Total Co	ver	Problematic Hydro	phytic Vegeta	tion¹ (Explai	in)
Woody Vine Stratum (Plot size:)		- 10tai 00	VCI				
1				<sup>1</sup> Indicators of hydric so be present, unless dist			nust
2				•	— Troop		
_		= Total Co		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0	3iotic Cru	ust0	<u> </u>	Present? Ye	es N	o <u> </u>	
Remarks:							

Profile Desc	ription: (Descri	be to the dep	th needed to docu	ment the i	ndicator	or confirm	the absence of	indicators.)		
Depth	Matri			x Features			_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	emarks	
0-2	10 YR 3/2	100					Silty clay			
- <u></u>	-									
1Tunos C. Co		Donlotion DM	Dadwood Motrix C		Lor Cooto		roing <sup>2</sup> l cost	ioni Di Doro I	ining M Mod	huis.
			Reduced Matrix, C LRRs, unless othe			a Sana Gr		on: PL=Pore I		
Histosol		mouble to un	Sandy Red		,u.,			ck (A9) (LRR C	-	•
	pipedon (A2)		Stripped M					ck (A3) ( <b>LRR C</b>		
Black His			Loamy Mu		(F1)			Vertic (F18)	_,	
	n Sulfide (A4)		Loamy Gle					ent Material (TF	<sup>-</sup> 2)	
	Layers (A5) ( <b>LR</b>	R C)	Depleted M		,			plain in Rema		
1 cm Mu	ck (A9) ( <b>LRR D</b> )		Redox Dar	k Surface (	F6)					
	d Below Dark Sur		Depleted D		. ,					
	ark Surface (A12)		Redox Dep	,	<del>-</del> 8)			hydrophytic ve	-	
-	lucky Mineral (S1		Vernal Poo	ls (F9)				drology must b		
	leyed Matrix (S4 ayer (if present						uniess disti	urbed or proble	ematic.	
Type: har		)-								
,, <u> </u>							Undeia Cail De		Na	
Depth (inc	cnes): <u>Z</u>						Hydric Soil Pr	esent? Yes	No	
Remarks:										
HYDROLO	GY									
Wetland Hyd	drology Indicato	rs:								
Primary Indic	ators (minimum	of one required	d; check all that app	ly)			Seconda	ary Indicators (2	2 or more requ	uired)
Surface	Water (A1)	•	Salt Crust	(B11)				er Marks (B1)		
	iter Table (A2)		Biotic Cru	` '				iment Deposits		ne)
Saturation			Aquatic Ir		s (B13)			Deposits (B3)		,
	arks (B1) ( <b>Nonri</b>	verine)	Hydrogen		, ,			nage Patterns		
·	nt Deposits (B2) (	,	· · · ·			Living Roo	ots (C3) Dry-	_		
	oosits (B3) (Nonr		Presence		_	_		/fish Burrows (		
-	Soil Cracks (B6)	,	Recent Iro					ıration Visible	,	gery (C9)
Inundatio	on Visible on Aer	ial Imagery (B		Surface (		,		llow Aquitard (I		
	tained Leaves (B		· —	plain in Re	,		· <del></del>	:-Neutral Test (	•	
Field Observ	vations:								· · ·	
Surface Wate	er Present?	Yes	No <u>√</u> Depth (ir	ches):						
Water Table			No <u>✓</u> Depth (ir							
Saturation Pr			No ✓ Depth (ir				and Hydrology F	Present? Yes	s No	. /
(includes cap	oillary fringe)									
Describe Rec	corded Data (stre	am gauge, mo	onitoring well, aerial	photos, pre	evious ins	pections),	if available:			
Remarks:										

Project/Site: Sloughhouse Solar Energy Project	City/Cou	<sub>nty:</sub> <u>Sacrame</u>	nto County	_ Sampling Daf	te: <u>11/12</u>	/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	_ Sampling Poi	nt:1	49
Investigator(s): A. Godinho and A. Sennett	Section,	Township, Rar	<sub>nge:</sub> Township 7N / R	ange 7E / Sect	tion 11	
Landform (hillslope, terrace, etc.): Terrace						0
Subregion (LRR): Lat:	38.467306	12	Long: -121.179723	С	atum: WGS	584
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slop	es		NWI classif	ication: n/a		
Are climatic / hydrologic conditions on the site typical for this time of						
Are Vegetation, Soil, or Hydrology significa			Normal Circumstances"		✓ No	)
Are Vegetation, Soil, or Hydrology naturally			eded, explain any answ	•	<u> </u>	
SUMMARY OF FINDINGS – Attach site map show						o oto
SOMMANT OF FINDINGS - Attach site map show	ing samp	ing point it	ocations, transect	S, illiportalli	Teatures	3, 616.
Hydrophytic Vegetation Present? Yes No		the Sampled	Area			
Hydric Soil Present? Yes No ✓	. I W	rithin a Wetlan	nd? Yes	No <u></u>	<u>/</u>	
Wetland Hydrology Present? Yes No✓ Remarks:						
Microdepression, prev mapped by SSHCP						
Associated feature: n/a						
·						
VEGETATION – Use scientific names of plants.						
		ant Indicator s? Status	Dominance Test wor			
1			Number of Dominant 3 That Are OBL, FACW		0	(A)
2			Total Number of Domi	inant		
3			Species Across All Str		2	(B)
4			Percent of Dominant S	Species		
Sapling/Shrub Stratum (Plot size:)	= Total	Cover	That Are OBL, FACW		0	(A/B)
1			Prevalence Index wo	orksheet:		
2.			Total % Cover of:	<u>Mu</u>	Itiply by:	_
3.			OBL species 0	x 1 = _	0	_
4			FACW species 0			_
5			FAC species 5			_
Herb Stratum (Plot size:)	<u> </u>	Cover	FACU species 80			_
1. Festuca myuros 40	0 Y	FACU	UPL species 15 Column Totals: 1		75 330	– (D)
2. Bromus hordeaceus 40	0 Y	FACU	Column Totals:	.00 (A) _		_ (B)
3. Hordeum marinum 5	5 N	FAC	Prevalence Inde	x = B/A =	3.3	_
4. Holocarpha virgata 10	0 N	UPL	Hydrophytic Vegetat	ion Indicators:		
5. Lupinus sp? 5	<u> </u>	UPL	Dominance Test i			
6			Prevalence Index			
7			Morphological Ad	laptations⁺ (Prov ·ks or on a sepai		ing
8			Problematic Hydr		,	n)
Woody Vine Stratum (Plot size:)	00 = Total	Cover			, ,	,
1			<sup>1</sup> Indicators of hydric so			nust
2			be present, unless dis	turbed or proble	matic.	
0	O = Total	Cover	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum	tic Crust	0		'es No	<u> </u>	
Remarks:			l			

Depth (inches)	Color (moist)	%	Red Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	.5 YR 4/8		7.5 YR 4/8	20	C	M	Silty clay	Komano
<u> </u>	.5 11(4/6	80	7.5 11 4/8			IVI	Sifty clay	
					·			
		- <del></del> -						
					-			
					-			
	turation D Don	lation DM	Dadwaad Matrice C		-l Ct-		21	eties Di Deschieire M Metric
			Reduced Matrix, C .RRs, unless other			ed Sand G		ation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol (A		able to all L	Sandy Red		.cu.j			uck (A9) (LRR C)
Histosor (A	,		Stripped M					uck (A10) ( <b>LRR B</b> )
Black Histic			Loamy Mu		al (F1)			ed Vertic (F18)
Hydrogen S	Sulfide (A4)		Loamy Gle				Red Pa	rent Material (TF2)
	ayers (A5) (LRR (	C)	Depleted N				Other (I	Explain in Remarks)
	(A9) ( <b>LRR D</b> )	(* ( )	Redox Da		. ,			
	elow Dark Surfac	e (A11)	Depleted [				3lm diantoro	of hydrophytic vegetation and
	Surface (A12) ky Mineral (S1)		Redox Dep		(ГО)			nydrology must be present,
	ed Matrix (S4)		vernari o	)i3 (i 3)				sturbed or problematic.
	/er (if present):							
- bard	nan							
<sub>Type:</sub> hard	pari							
Type: naru  Depth (inche							Hydric Soil	Present? Yes No✓
Depth (inche			<del></del>				Hydric Soil I	Present? Yes No _ ✓
Depth (inche	es): <u>5</u>		_				Hydric Soil	Present? Yes No _✓
Depth (inche Remarks:	es): <u>5</u>						Hydric Soil	Present? Yes No _ ✓
Depth (inche Remarks:  YDROLOGY Wetland Hydro	es): <u>5</u> Y ology Indicators:		s check all that any	ole à				
Depth (inche Remarks:  YDROLOG  Wetland Hydro  Primary Indicate	es): <u>5</u> Y  Plogy Indicators: ors (minimum of c		check all that app	* *			Second	dary Indicators (2 or more required)
Depth (inche Remarks:  YDROLOG  Wetland Hydro  Primary Indicato  Surface Wa	y ology Indicators: ors (minimum of cater (A1)		Salt Crus	t (B11)			Second W:	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Depth (inche Remarks:  YDROLOGY  Wetland Hydro  Primary Indicate  Surface Wa  High Water	y slogy Indicators: ors (minimum of cater (A1)		Salt Crus	t (B11) ust (B12)	ne (R13)		Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inche Remarks:  YDROLOGY  Wetland Hydro  Primary Indicato  Surface Wa  High Water  Saturation	y plogy Indicators: ors (minimum of cater (A1) Table (A2) (A3)	one required	Salt Crus Biotic Cru Aquatic I	t (B11) ust (B12) nvertebrate	, ,		Second W: Se Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Depth (inches Remarks:  YDROLOG  Wetland Hydro  Primary Indicato  Surface Wa  High Water  Saturation  Water Mark	y vology Indicators: ors (minimum of cater (A1) Table (A2) (A3) (S (B1) (Nonriver	ne required	Salt Crus Biotic Cru Aquatic II Hydroger	t (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)	Living Ro	Second   W:   Se   Dr   Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (inche Remarks:  YDROLOG  Wetland Hydro  Primary Indicato  Surface Wa  High Water  Saturation  Water Mark  Sediment D	y  logy Indicators: ors (minimum of cater (A1) Table (A2) (A3) (X5 (B1) (Nonriver Deposits (B2) (No	ine) nriverine)	Salt Crus Biotic Cru Aquatic Iu Hydroger Oxidized	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	_	Second Will Se Dr Dr Dr ots (C3) Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2)
Depth (inche Remarks:  YDROLOG  Wetland Hydro  Primary Indicate  Surface Wa  High Water  Saturation  Water Mark  Sediment D  Drift Depos	Pology Indicators: Drs (minimum of coater (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A6) (A6) (A6) (A6) (A6) (A6) (A6) (A6	ine) nriverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C	4)	Second Work Second Dr Dr Dr Dr Dr Cr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Surface So	y plogy Indicators: ors (minimum of cater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A7) (A7) (A7) (A8) (A8) (A9) (A9) (A9) (A9) (A9) (A9) (A9) (A9	ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir	t (B11) ust (B12) envertebrate a Sulfide O Rhizosphe e of Reduce on Reduct	dor (C1) eres along ed Iron (C- ion in Tille	4)	Second  W Se Dr Dr Cots (C3) Dr Cr Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation	Pology Indicators: Drs (minimum of coater (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A6) (A6) (A6) (A6) (A6) (A6) (A6) (A6	ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C- ion in Tille (C7)	4)	Second  With Second Dr Dr Cr Cr Scots (C3) Dr Cr Scots (C3) Scots Scots Scots	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Depth (inches Remarks:  YDROLOGY Wetland Hydro Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stain	y v v v v v v v v v v v v v v v v v v v	ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ii Hydroger Oxidized Presence Recent Ir	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface	dor (C1) eres along ed Iron (C- ion in Tille (C7)	4)	Second  With Second Dr Dr Cr Cr Scots (C3) Dr Cr Scots (C3) Scots Scots Scots	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicato Surface Water Mark Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stair	Proposits (B2) (Nonriver il Cracks (B6) Visible on Aerial in ed Leaves (B9) (ions:	ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface cyplain in Re	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Second  With Second Dr Dr Cr Cr Scots (C3) Dr Cr Scots (C3) Scots Scots Scots	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicate Surface Water Mark Sediment D Drift Depos Surface So Inundation Water-Stair Field Observat	y plogy Indicators: ors (minimum of conter (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A6) (A6) (A6) (A6) (A6) (A6) (A6) (A6	ine) nriverine) rine) Imagery (B7	Salt Crus Biotic Cru Aquatic Iu Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Second  With Second Dr Dr Cr Cr Scots (C3) Dr Cr Scots (C3) Scots Scots Scots	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (inche Remarks:  YDROLOGY Wetland Hydro Surface Water Mark Sediment Depose Surface Solundation Water-Stair Field Observat Water Table Pro	y plogy Indicators: ors (minimum of conter (A1) Table (A2) (A3) ss (B1) (Nonriver Deposits (B2) (Nonrive ill Cracks (B6) Visible on Aerial Inded Leaves (B9) itions: Present? Yesent? Y	ine) nriverine) Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface kplain in Re nches):	dor (C1) eres along ed Iron (Ci ion in Tille (C7) emarks)	4) d Soils (Co	Second  With the second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicate Surface Water Mark Sediment Depose Drift Depose Surface Soon Inundation Water-Stair Field Observate Surface Water Inches Surface Water Table Prosection Presection Prese	y plogy Indicators: ors (minimum of conter (A1) Table (A2) (A3) As (B1) (Nonriver Deposits (B2) (Nonrive il Cracks (B6) Visible on Aerial Inded Leaves (B9) Inded Leaves (B9) Indes: Present? Every fringe)	ine) nriverine) rine) Imagery (B7  Yes N  Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Second   Will   Will   Second   Will   Second   Or   Or   Or   Or   Or   Or   Or   O	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) eainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)
Depth (inche Remarks:    YDROLOG     Wetland Hydro     Primary Indicate     Surface Wa     High Water     Saturation     Water Mark     Sediment E     Drift Depos     Surface So     Inundation     Water-Stair     Field Observat     Surface Water     Water Table Prosection     Saturation Presection     Control of the prosection     Con	y plogy Indicators: ors (minimum of conter (A1) Table (A2) (A3) As (B1) (Nonriver Deposits (B2) (Nonrive il Cracks (B6) Visible on Aerial Inded Leaves (B9) Inded Leaves (B9) Indes: Present? Every fringe)	ine) nriverine) rine) Imagery (B7  Yes N  Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Second   Will   Will   Second   Will   Second   Or   Or   Or   Or   Or   Or   Or   O	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inche Remarks:    YDROLOG     Wetland Hydro     Primary Indicate     Surface Wa     High Water     Saturation     Water Mark     Sediment D     Drift Depos     Surface So     Inundation     Water-Stair     Water Table Prosaturation Pres     (includes capillad     Describe Record     Describe Record     Prosaturation Pres     Control      plogy Indicators: ors (minimum of conter (A1) Table (A2) (A3) As (B1) (Nonriver Deposits (B2) (Nonrive il Cracks (B6) Visible on Aerial Inded Leaves (B9) Inded Leaves (B9) Indes: Present? Every fringe)	ine) nriverine) rine) Imagery (B7  Yes N  Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Second   Will   Will   Second   Will   Second   Or   Or   Or   Or   Or   Or   Or   O	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3) AC-Neutral Test (D5)	
Depth (inche Remarks:    YDROLOG     Wetland Hydro     Primary Indicate     Surface Wa     High Water     Saturation     Water Mark     Sediment E     Drift Depos     Surface So     Inundation     Water-Stair     Field Observat     Surface Water     Water Table Prosection     Saturation Presection     Control of the prosection     Con	y plogy Indicators: ors (minimum of conter (A1) Table (A2) (A3) As (B1) (Nonriver Deposits (B2) (Nonrive il Cracks (B6) Visible on Aerial Inded Leaves (B9) Inded Leaves (B9) Indes: Present? Every fringe)	ine) nriverine) rine) Imagery (B7  Yes N  Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Second   Will   Will   Second   Will   Second   Or   Or   Or   Or   Or   Or   Or   O	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicate Surface Water Mark Sediment Depose Drift Depose Surface So Inundation Water-Stain Field Observat Surface Water If Water Table Prosection Presection Records Describe Records	y plogy Indicators: ors (minimum of conter (A1) Table (A2) (A3) As (B1) (Nonriver Deposits (B2) (Nonrive il Cracks (B6) Visible on Aerial Inded Leaves (B9) Inded Leaves (B9) Indes: Present? Every fringe)	ine) nriverine) rine) Imagery (B7  Yes N  Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Second   Will   Will   Second   Will   Second   Or   Or   Or   Or   Or   Or   Or   O	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inche Remarks:  YDROLOGY Wetland Hydro Primary Indicate Surface Water Mark Sediment Depose Drift Depose Surface So Inundation Water-Stain Field Observat Surface Water If Water Table Prosection Presection Presection Presection Records Includes capillate Describe Records	y plogy Indicators: ors (minimum of conter (A1) Table (A2) (A3) As (B1) (Nonriver Deposits (B2) (Nonrive il Cracks (B6) Visible on Aerial Inded Leaves (B9) Inded Leaves (B9) Indes: Present? Every fringe)	ine) nriverine) rine) Imagery (B7  Yes N  Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct k Surface explain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Co	Second   Will   Will   Second   Will   Second   Or   Or   Or   Or   Or   Or   Or   O	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) ry-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramer	nto County	Sampling Date: 11/12/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point:150
Investigator(s): A. Godinho and A. Sennett	Section, Township, Ran	ge: Township 7N / Ra	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, c	onvex, none): Concave	Slope (%):0
Subregion (LRR): Lat: 3	88.46752183	Long: -121.1796916	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slope			
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significar	tly disturbed? Are "I	Normal Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If nee	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point lo	cations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No _✓ Hydric Soil Present? Yes No _✓			_
Wetland Hydrology Present? Yes No ✓  Remarks:	i within a wetian	d? Yes	No <u> </u>
Larger microdepression previously mapped by St Associated feature: n/a	БНСР		
VEGETATION – Use scientific names of plants.			
Absolu	te Dominant Indicator	Dominance Test work	sheet:
	er Species? Status	Number of Dominant S	
1		That Are OBL, FACW,	
2		Total Number of Domin	ant
3		Species Across All Stra	ta: <u>2</u> (B)
4	= Total Cover	Percent of Dominant Sp	pecies or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)			
1		Prevalence Index wor	
2			$ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad $
3		FACW species 0	
4			x 3 = 150
5	= Total Cover	FACU species 50	
Herb Stratum (Plot size: 5m x 5m )	= Total Cover	UPL species 0	
1. Festuca perennis 50	Y FAC		00 (A) 350 (B)
2. Bromus hordeaceus 50	Y FACU		
3		Prevalence Index	
4		Hydrophytic Vegetation	
5		Dominance Test is	
6		Prevalence Index is	
7			ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8	) = Total Cover		phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover		
1		<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.
2		Hydrophytic	
	= Total Cover	Vegetation	,
% Bare Ground in Herb Stratum 0	C Crust	Present? Ye	s No_ <u>√</u>
Remarks:			

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type <sup>1</sup> Loc <sup>2</sup> Texture	
	Remarks
LOU TOVE TO TOO	NEIIIdiko
0-2 10 YR 3/2 100 Silty clay	
	re Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators for Problema	•
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LR	
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LF	•
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Rel	marks)
Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Depleted Dark Surface (F7)	
Thick Dark Surface (A12)  Redox Depressions (F8)  3Indicators of hydrophytic	vegetation and
Sandy Mucky Mineral (S1)  — Vernal Pools (F9)  wetland hydrology must	=
Sandy Gleyed Matrix (S4) unless disturbed or pro	
Restrictive Layer (if present):	
Type: hard pan	
	/es No
Remarks:	
Termano.	
HYDROLOGY	
HYDROLOGY  Wetland Hydrology Indicators:	
Wetland Hydrology Indicators:	rs (2 or more required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicator	s (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B11)	1) (Riverine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B11)         High Water Table (A2)       Biotic Crust (B12)       Sediment Deport	a1) (Riverine) sits (B2) (Riverine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B	11) (Riverine) sits (B2) (Riverine) 33) (Riverine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter	nt) (Riverine) sits (B2) (Riverine) 33) (Riverine) rns (B10)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water	cit) (Riverine) sits (B2) (Riverine) 33) (Riverine) rns (B10) ater Table (C2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B13)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow	cit) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8)
Primary Indicators (minimum of one required; check all that apply)  Secondary Indicator  Sulface Water (A1)  High Water Table (A2)  Salt Crust (B12)  Sediment Deposits (B2)  Water Marks (B13)  Prift Deposits (B2)  Sediment Deposits (B2)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visits	ct) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ele on Aerial Imagery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B1)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visib         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Texters	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B13)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visib         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Texter (Explain in Remarks)	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B1)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Presents (B3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visib         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Text         Field Observations:         Surface Water Present?       Yes No / Depth (inches):	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B13)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visib         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Texter (Explain in Remarks)	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B1)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water Presents (B3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visib         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Text         Field Observations:         Surface Water Present?       Yes No / Depth (inches):	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3) est (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B1)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drianage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visite         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Textern Text	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3) est (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Depo         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drainage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water (C4)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visib         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Text         Field Observations:         Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):	it) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3) est (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B2)         Water Marks (B1) (Nonriverine)	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3) est (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B1)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)       Drianage Patter         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)       Dry-Season Water         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)       Crayfish Burrow         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visite         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)       Shallow Aquitar         Water-Stained Leaves (B9)       Other (Explain in Remarks)       FAC-Neutral Textern Text	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3) est (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B2)         Water Marks (B1) (Nonriverine)	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3) est (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B2)         Water Marks (B1) (Nonriverine)	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3) est (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Salt Crust (B11)       Water Marks (B         High Water Table (A2)       Biotic Crust (B12)       Sediment Deposits (B2)         Saturation (A3)       Aquatic Invertebrates (B13)       Drift Deposits (B2)         Water Marks (B1) (Nonriverine)	in (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) rd (D3) est (D5)

Project/Site: Sloughhouse Solar Energy Project	Ci	ity/County:	Sacramer	nto County	S	ampling Date	: 11/1	2/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA S	ampling Poin	t:1	.53
Investigator(s): A. Godinho and A. Sennett	S	ection, Tov	vnship, Rar	nge: Township 7	7N / Rang	e 7E / Secti	on 10	
Landform (hillslope, terrace, etc.): <u>Drainage</u>								5
Subregion (LRR): C	at: 38.47	7107383		Long: -121.18	77879	Da	<sub>tum:</sub> WG	iS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s								
Are climatic / hydrologic conditions on the site typical for this tim								
Are Vegetation, Soil, or Hydrology signi				Normal Circumst			✓ N	0
Are Vegetation, Soil, or Hydrology nature				eded, explain an				
SUMMARY OF FINDINGS – Attach site map sho								s, etc.
Hydrophytic Vegetation Present? Yes No	<u></u>			·				
Hydric Soil Present? Yes No _	_		Sampled			/		
Wetland Hydrology Present? Yes No _		withi	n a Wetlan	id? Yo	es	_ No <u></u>	_	
Remarks:								
No break in slope or change in vegetation. Lik	cely she	et flow	s throug	h this area d	uring ru	ın-off eve	nts.	
VEGETATION – Use scientific names of plants.								
·		Dominant	Indicator	Dominance Te	st worksh	eet:		
Tree Stratum (Plot size:)	Cover	Species?	Status	Number of Don				
1				That Are OBL,	FACW, or	FAC:	0	(A)
2				Total Number of			2	
3				Species Across	All Strata:		2	(B)
4		= Total Cov		Percent of Dom			0	(A (D)
Sapling/Shrub Stratum (Plot size:)		- 10181 001	, C1	That Are OBL,	FACVV, or	FAC:	<u> </u>	(A/B)
1				Prevalence Inc				
2				Total % Co				
3				OBL species		x 1 =		
4				FACW species FAC species		x2= _ x3=		_
5	_	= Total Cov		FACU species				_
Herb Stratum (Plot size: 5m x 5m )	=	= Total Cov	/ei	UPL species				_
1. Holocarpha virgata	20	Υ	UPL	Column Totals:		(A)	40.5	— (B)
2. Bromus hordeaceus	75	Υ	FACU					_ ` '
3. <u>Lactuca serriola</u>			UPL			B/A =	4.25	_
4				Hydrophytic V	_			
5				Dominance Prevalence				
6						ວ.ບ ations¹ (Provid	de sunnoi	rtina
7				Morphologi data in	Remarks o	r on a separa	te sheet)	ung
8		= Total Cov	/Or	Problemati	c Hydrophy	ytic Vegetatio	n¹ (Expla	in)
Woody Vine Stratum (Plot size:)		- Total Cov	/CI					
1				<sup>1</sup> Indicators of hybe present, unle				must
2				•	255 015(01)	ed of problem	ialic.	
_	0 =	= Total Cov	/er	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 0	Biotic Cru	ıst 0		Present?	Yes _	No	✓	
Remarks:								

	-	_				or confirm	n the absence of i	ndicators.)	
Depth (inches)	Color (moist)	<u>«</u>	Color (moist)	ox Feature:	s Type <sup>1</sup>	Loc²	Texture	Remark	re.
(inches)			COIOI (IIIOISI)	%	<u>rype</u>	LUC		Kemark	.5
0-2	10 YR 3/2	100					Silty clay		
	-								
	-								
l ———									
	-								
	oncentration, D=D					d Sand Gr		n: PL=Pore Lining	
Hydric Soil	Indicators: (App	licable to all LF	RRs, unless other	erwise not	ed.)		Indicators for	Problematic Hydr	ic Soils³:
Histosol	(A1)		Sandy Red	dox (S5)			1 cm Muck	(A9) ( <b>LRR C</b> )	
Histic Ep	pipedon (A2)		Stripped M	latrix (S6)			2 cm Muck	(A10) ( <b>LRR B</b> )	
Black Hi	istic (A3)		Loamy Mu					/ertic (F18)	
	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)			t Material (TF2)	
	d Layers (A5) ( <b>LR</b>	R C)	Depleted N				Other (Exp	olain in Remarks)	
	uck (A9) ( <b>LRR D</b> )		Redox Dar		. ,				
	d Below Dark Sur		Depleted D		. ,		3		
	ark Surface (A12)		Redox Dep		F8)			ydrophytic vegetati	
	Mucky Mineral (S1		Vernal Poo	ols (F9)				rology must be pres	
	Gleyed Matrix (S4)						unless distui	bed or problemation	<b>).</b>
	Layer (if present	):							
Type: <u>ha</u>									
Depth (in	ches): 2						Hydric Soil Pre	sent? Yes	No <u>√</u>
Remarks:									
HYDROLO	ic.v								
		roi							
· ·	drology Indicato						0 1		
	cators (minimum o	of one required;						y Indicators (2 or m	
Surface	Water (A1)		Salt Crus	t (B11)			Wate	r Marks (B1) ( <b>Rive</b>	rine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sedin	nent Deposits (B2)	(Riverine)
Saturation	on (A3)		Aquatic Ir	nvertebrate	s (B13)		Drift [	Deposits (B3) ( <b>Rive</b>	erine)
Water M	Marks (B1) (Nonri	verine)	Hydroger	Sulfide O	dor (C1)		Drain	age Patterns (B10)	
Sedimer	nt Deposits (B2) (	Nonriverine)	Oxidized	Rhizosphe	res along	Living Roo	ots (C3) Dry-S	Season Water Table	e (C2)
Drift Dep	posits (B3) (Nonri	iverine)	Presence	of Reduce	ed Iron (C4	1)	Crayf	ish Burrows (C8)	
Surface	Soil Cracks (B6)		Recent Ir	on Reducti	on in Tille	d Soils (C6	S) <u>✓</u> Satur	ation Visible on Ae	rial Imagery (C9)
	ion Visible on Aeri	al Imagery (B7)	Thin Muc					ow Aquitard (D3)	
·	Stained Leaves (B		Other (Ex				<del></del>	Neutral Test (D5)	
Field Obser		-,					<u> </u>	(= 0)	
Surface Wat		Voc No	o <u>√</u> Depth (ir	achoe):					
Water Table		·	Depth (ir						
Saturation P		Yes No	Depth (ir	nches):		_ Wetla	and Hydrology Pr	esent? Yes	No <u></u>
(includes car	pillary fringe) corded Data (stre	am daude moni	itoring well serial	nhotos or	evious ins	nections)	if available		
Pescine Ke	ooraca Data (Sile	am gauge, mom	noming wen, aenai	ριισισό, μι	cvious IIIS	poolioiiaj,	n avanabie.		
Remarks:									

Project/Site: Sloughhouse Solar Energy Project	C	City/Cou	<sub>nty:</sub> Sacrame	nto County	Sa	mpling Date	: 11/1	2/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State:	CA Sa	mpling Poin	t: <u> </u>	.57		
Investigator(s): A. Godinho and A. Sennett								
Landform (hillslope, terrace, etc.): Drainage				_				5
Subregion (LRR):								
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s								
Are climatic / hydrologic conditions on the site typical for this tin								
Are Vegetation, Soil, or Hydrology✓ sign				"Normal Circumst			✓ N	0
Are Vegetation, Soil, or Hydrology natu				eeded, explain an				
SUMMARY OF FINDINGS – Attach site map she	owing	sampl	ling point l	ocations, trar	nsects, in	nportant	feature	s, etc.
Hydrophytic Vegetation Present? Yes No _	<b>√</b>							
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _	✓		the Sampled			No✓		
Wetland Hydrology Present? Yes ✓ No _		w	rithin a Wetla	nar r	es	NO ¥	_	
Remarks:								
Associated feature: n/a					P			
Aerial signature + prev. mapped by SSHCP, but a	ılı uplar	na veg	etation at	base of pipe c	nanneiing	g runott tr	om soi	ar site
VEGETATION – Use scientific names of plants.								
		Domina	ant Indicator	Dominance Te	st workshe	et:		
			s? Status	Number of Don				
1				That Are OBL,	FACW, or F	AC:	0	(A)
2				Total Number of			2	<b>(D)</b>
3				Species Across	All Strata:	-	2	(B)
	0			Percent of Dom That Are OBL,			Λ	(
Sapling/Shrub Stratum (Plot size:)		. • • • •					0	(A/D)
1				Prevalence Inc				
2						Multi		
3				OBL species		x 1 =		
4				FACW species FAC species		x2= _ x3=		_
5	0	_ Total	Cover	FAC species FACU species				_
Herb Stratum (Plot size: 5m x 5m )		= 10(a)	Cover	UPL species		x =		_
1. Holocarpha virgata	20	Y	UPL	Column Totals:		(A)	425	— (B)
2. Bromus hordeaceus	75	Y	FACU			_		_ ( /
3. <u>Lactuca serriola</u>	5	N	UPL			B/A =	4.25	_
4				Hydrophytic V	_			
5				Dominance				
6				Prevalence			la auppai	tina
7						on a separa		
8	100		Cover	Problemati	c Hydrophyt	tic Vegetatio	n¹ (Expla	in)
Woody Vine Stratum (Plot size:)	100	= 10(a)	Cover					
1				<sup>1</sup> Indicators of hybe present, unle				must
2				be present, unit	ess disturbe	a or problem	ialic.	
_	0	= Total	Cover	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum	Biotic Cr	ust	0	Present?	Yes _	No	✓	
Remarks:				I				

		to the depth	needed to document the indicator	or confirm the abs	ence of indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Redox Features  Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Textu	ire Remarks
	-		Odioi (moist) /0 Type		
0-2	10 YR 3/2	100		Silty cl	<u>ay</u>
		- <u> </u>			
			Reduced Matrix, CS=Covered or Coate		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
-		able to all L	RRs, unless otherwise noted.)		ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)		Sandy Redox (S5) Stripped Matrix (S6)		cm Muck (A9) ( <b>LRR C</b> ) cm Muck (A10) ( <b>LRR B</b> )
	istic (A3)		Shipped Matrix (30) Loamy Mucky Mineral (F1)		Reduced Vertic (F18)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
	d Layers (A5) ( <b>LRR (</b>	<b>C</b> )	Depleted Matrix (F3)		Other (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dark Surface (F6)		
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)	3	
	ark Surface (A12)		Redox Depressions (F8)		ators of hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pools (F9)		tland hydrology must be present, less disturbed or problematic.
	Layer (if present):			uni	ess disturbed of problematic.
Type: ha					
Depth (in			<u> </u>	Hydrid	Soil Present? Yes No _√_
Remarks:				1.,,	
HYDROLO	GY				
Wetland Hy	drology Indicators:				
Primary India	cators (minimum of c	ne required;	check all that apply)		Secondary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (B11)	-	Water Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Crust (B12)	-	Sediment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)
Water M	larks (B1) (Nonriver	ine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized Rhizospheres along	Living Roots (C3)	Dry-Season Water Table (C2)
Drift Dep	posits (B3) (Nonrive	rine)	Presence of Reduced Iron (C4	4)	Crayfish Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Iron Reduction in Tille	d Soils (C6)	✓ Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial I	magery (B7)		-	Shallow Aquitard (D3)
	tained Leaves (B9)		Other (Explain in Remarks)		FAC-Neutral Test (D5)
Field Obser			,		
Surface Wat			Depth (inches):		
Water Table			Depth (inches):		
Saturation P		es No	o _ ✓ _ Depth (inches):	Wetland Hydi	rology Present? Yes No
(includes cap Describe Re		gauge, mon	itoring well, aerial photos, previous ins	pections), if availab	le:
	(	33	3 , , , , , , , , , , , , , , , , , , ,	,	
Remarks:					

Project/Site: Sloughhouse Solar Energy Project	Cit	y/County:	Sacramen	to County	Sampling Date:11/	/12/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point:	158
Investigator(s): A. Godinho and A. Sennett	Se	ction, Tov	vnship, Ran	ge: Township 7N / Ra	nge 7E / Section 10	
Landform (hillslope, terrace, etc.): Hillslope	Lo	cal relief	(concave, c	onvex, none): Concave	Slope (%	%): <u> </u>
Subregion (LRR): La	ıt: 38.46	977072		Long: -121.188502	Datum: V	VGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slc				NWI classific		
Are climatic / hydrologic conditions on the site typical for this time						
Are Vegetation, Soil, or Hydrology signific				Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology natura				eded, explain any answe		
SUMMARY OF FINDINGS – Attach site map show						res, etc.
		<u> </u>	-	<u> </u>	•	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			Sampled .		,	
Wetland Hydrology Present? Yes ✓ No		withi	n a Wetlan	d? Yes	No <u></u>	
Remarks:						
Associated feature: n/a						
Within topographic depression at start of SWS	;					
VEGETATION – Use scientific names of plants.						
	solute C	Dominant	Indicator	Dominance Test work	sheet:	
		Species?		Number of Dominant Sp		
1				That Are OBL, FACW, o		(A)
2				Total Number of Domin		
3				Species Across All Stra	ta: <u>1</u>	(B)
4		Total Cov	1	Percent of Dominant Sp		
Sapling/Shrub Stratum (Plot size:)	=	Total Cov	rei	That Are OBL, FACW, o	or FAC: 100	(A/B)
1				Prevalence Index wor	ksheet:	
2				Total % Cover of:		
3				OBL species		
4				FACW species		
5	_	Total Cov		FAC species		
Herb Stratum (Plot size: 1m x 1m )	=	Total Cov	rei	UPL species		
1. Festuca perennis	70	Υ	FAC	Column Totals:		
2. Hordeum marinum	10	N	FAC			
	10	N	UPL		= B/A =	
	10	<u>N</u>	FACU	Hydrophytic Vegetation		
5				<ul><li>✓ Dominance Test is</li><li>Prevalence Index is</li></ul>		
6					s ≤s.∪ ptations¹ (Provide supp	oorting
7				Morphological Ada <sub> </sub> data in Remarks	s or on a separate shee	et)
8		Total Cov	ver	Problematic Hydro	ohytic Vegetation <sup>1</sup> (Exp	olain)
Woody Vine Stratum (Plot size:)		Total Cov	CI			
1				<sup>1</sup> Indicators of hydric soi be present, unless distu		y must
2				•		
	0 =	Total Cov	er	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum	iotic Crus	st0			s/ No	-
Remarks:			1			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			k Feature							
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-4	10 YR 3/1	100					Silty clay				
						-					
<del></del>											
	oncentration, D=Dep					ed Sand Gr		n: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Applic	able to all Li	RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Sandy Redo	x (S5)			1 cm Muck	(A9) ( <b>LRR C</b> )			
-	oipedon (A2)		Stripped Ma					(A10) ( <b>LRR B</b> )			
	stic (A3)		Loamy Mucl					/ertic (F18)			
	en Sulfide (A4)		Loamy Gley		(F2)		<del></del>	t Material (TF2)			
	d Layers (A5) (LRR	C)	Depleted Ma				Other (Exp	olain in Remarks)			
	uck (A9) ( <b>LRR D</b> )	(4.4.4)	Redox Dark								
	d Below Dark Surfac	e (A11)	Depleted Da		, ,		31 11 4 61				
	ark Surface (A12)		Redox Depr		F8)			ydrophytic vegetation and			
	Mucky Mineral (S1) Bleyed Matrix (S4)		Vernal Pools	s (F9)			-	rology must be present, rbed or problematic.			
-	Layer (if present):						uriless distui	bed of problematic.			
Type: ha											
, , <u> </u>											
Depth (in	ches): <u>4</u>		<del></del>				Hydric Soil Pre	sent? Yes No✓			
Remarks:											
Δlliaceae	bulbs observe	d in soil									
Amaceae	Duids Observe	u III 3011									
HYDROLO	CV										
_	drology Indicators										
	cators (minimum of	one required;						y Indicators (2 or more required)			
Surface	Water (A1)		Salt Crust				Water Marks (B1) (Riverine)				
High Wa	ater Table (A2)		✓ Biotic Crus	t (B12)			Sediment Deposits (B2) (Riverine)				
Saturation	on (A3)		Aquatic Inv	ertebrate	s (B13)		Drift Deposits (B3) (Riverine)				
Water M	larks (B1) ( <b>Nonrive</b>	rine)	Hydrogen	Sulfide O	dor (C1)		Drain	age Patterns (B10)			
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized R	hizosphe	res along	Living Roc	ots (C3) Dry-S	eason Water Table (C2)			
Drift Dep	oosits (B3) ( <b>Nonrive</b>	rine)	Presence of	of Reduce	ed Iron (C4	4)	Crayf	ish Burrows (C8)			
✓ Surface	Soil Cracks (B6)		Recent Iro	n Reducti	on in Tille	d Soils (C6	6) Satur	ation Visible on Aerial Imagery (C9)			
Inundati	on Visible on Aerial	Imagery (B7)	Thin Muck	Surface (	(C7)		Shallo	ow Aquitard (D3)			
Water-S	tained Leaves (B9)		Other (Exp	lain in Re	emarks)		FAC-I	Neutral Test (D5)			
Field Obser	vations:										
Surface Wat	er Present?	es No	Depth (inc	ches):							
Water Table											
Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): Wetl							and Hydrology Pr	esent? Yes √ No			
(includes cap		ES INC	Deptii (iiit	, iles)		_   *****	and riyurology r r	esent: Tes No			
	corded Data (strean	n gauge, moni	itoring well, aerial p	hotos, pr	evious ins	pections),	if available:				
Remarks:											

Project/Site: Sloughhouse Solar Energy Project	(	City/County:	nty: Sacramento County Sampling Date:11/12/2020					
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 159			
Investigator(s): A. Godinho and A. Sennett								
Landform (hillslope, terrace, etc.): Hillslope		Local relief	(concave,	convex, none): Concave	Slope (%): 2			
Subregion (LRR):								
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	slopes			NWI classific	cation: n/a			
Are climatic / hydrologic conditions on the site typical for this ti								
Are Vegetation, Soil, or Hydrology sign	nificantly o	disturbed?	Are "	Normal Circumstances" p	present? Yes No			
Are Vegetation, Soil, or Hydrology natu	urally prol	blematic?	(If ne	eded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map sh	owing	samplin	g point l	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes ✓ No No No Remarks:			e Sampled in a Wetlar		No			
Associated feature: FEW-01 Within man made emergent wetland created I	by brok	en bubb	ler/ sprir	nkler/ irrigation off-	site. Feeds into SWS-06.			
VEGETATION – Use scientific names of plants								
		Species?	Status	Number of Dominant S That Are OBL, FACW,	pecies			
2				Total Number of Domin Species Across All Stra				
4		= Total Co		Percent of Dominant Sp That Are OBL, FACW,	pecies or FAC: <u>100</u> (A/B)			
1				Prevalence Index wor	ksheet:			
2.				Total % Cover of:	Multiply by:			
3				OBL species	x 1 =			
4				FACW species	x 2 =			
5				FAC species	x 3 =			
4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0	= Total Co	ver		x 4 =			
Herb Stratum (Plot size: 1m x 1m )	25	V	ODI	UPL species	x 5 =			
1. Typha latifolia		Y	OBL	Column Totals:	(A) (B)			
Juncus balticus     Festuca perennis			<u>FACW</u> FAC	Prevalence Index	= B/A =			
				Hydrophytic Vegetation				
4				✓ Dominance Test is				
5				Prevalence Index is				
6					ptations <sup>1</sup> (Provide supporting			
7				data in Remarks	s or on a separate sheet)			
		= Total Co	ver	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)			
Woody Vine Stratum (Plot size:) 1					il and wetland hydrology must			
2				be present, unless distu	arbed or problematic.			
- Or Day Or Constant		= Total Co		Hydrophytic Vegetation	- / N-			
% Bare Ground in Herb Stratum 0	Riotic Cr	ust		Present? Ye	s No			
Remarks:								
2 populus fremontii saplings + polygon avicu Nightshade, Hypochaeris radicata, Rumex cr		anunculı	us aquat	ilis, Melica califorr	iica, Sonchus sp.,			

US Army Corps of Engineers

Histosol (A1) Sandy Redox (S5) 1 Histic Epipedon (A2) Stripped Matrix (S6) 2 Black Histic (A3) Loamy Mucky Mineral (F1) R Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) R Stratified Layers (A5) (LRR C) Depleted Matrix (F3) O 1 cm Muck (A9) (LRR D) Pepleted Matrix (F3) O 1 cm Muck (A9) (LRR D) Pepleted Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sindice Sandy Mucky Mineral (S1) Vernal Pools (F9) Wet Sandy Gleyed Matrix (S4) Unit Sandy Gleyed Matrix (S4) Wunle Restrictive Layer (if present): Type: Cobble Depth (inches): 4 Hydrice  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B12) Salt Crust (B12) Salt Crust (B12) Salt Crust (B12) Salt Crust (B12) Salt Crust (B13) Salt Crust (B13) Salt Crust (B14) Salt Crust (B15) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): Wat	e Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  R Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  R Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Loamy Gleyed Matrix (F3)  1 cm Muck (A9) (LRR D)  Pepleted Below Dark Surface (A11)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Depleted Dark Surface (F7)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F7)  Wetstrictive Layer (if present):  Type: Cobble  Depth (inches): 4  Remarks:   YDROLOGY  Wetand Hydrology Indicators:  Primary Indicators (minimum of one required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B12)  Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine)  Drift Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Water Stained Leaves (B9)  Other (Explain in Remarks)  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr  Wetland Hydr	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Sandy Redox (S5)	
Algoric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators	_
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	_
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	2
Histosol (A1) Sandy Redox (S5) 1 Histic Epipedon (A2) Stripped Matrix (S6) 2 Black Histic (A3) Loamy Mucky Mineral (F1) R Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) R Stratified Layers (A5) (LRR C) Depleted Matrix (F3) O 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Poleted Matrix (S4) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wet Sandy Gleyed Matrix (S4) Unit Restrictive Layer (if present): Type: Cobble Depth (inches): 4 Hydric Remarks:  Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) Salt Crust (B12) Hydric Remarks:  Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) Salt Crust (B12) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches):	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. tors for Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  R Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  R Stratified Layers (A5) (LRR C)  Depleted Matrix (F3)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (F3)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Thick Dark Surface (A12)  Redox Depressions (F8)  Indicators (F9)  Wetland Pools (F9)  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  High Water Table (A2)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Crask (B6)  Inundation Visible on Aerial Imagery (B7)  Water Stalined Leaves (B9)  Presence of Reduced Iron (C4)  Wetland Hydrology:  W	•
Black Histic (A3) Loamy Mucky Mineral (F1) R Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) R Stratified Layers (A5) (LRR C) Depleted Matrix (F3) O 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Indicators (F8) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Wernal Pools (F9) Wet Sandy Gleyed Matrix (S4) Unlike Restrictive Layer (if present): Type: Cobble Depth (inches): 4 Hydric Remarks:  Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Dirit Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	cm Muck (A9) ( <b>LRR C</b> ) cm Muck (A10) ( <b>LRR B</b> )
Hydrogen Sulfide (A4)	educed Vertic (F18)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) O  1 cm Muck (A9) (LRR D) ✓ Redox Dark Surface (F6) Depleted Bolow Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) wet Sandy Gleyed Matrix (S4) Unlter (Special Surface (F7))  Restrictive Layer (if present): Type: Cobble Depth (inches): 4 Hydrice Remarks:  Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Silt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Mater Aguatic Invertebrates (B13) Drift Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Surface Water Present? Yes No ✓ Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes No Depth (inches): Surface Vaturation Present? Yes Depth (inches): Surface Vaturation Present? Yes Depth (inches): Surface Vaturation Present? Yes Depth (inches):	ed Parent Material (TF2)
	her (Explain in Remarks)
Thick Dark Surface (A12)	,
Sandy Mucky Mineral (S1) Vernal Pools (F9) wet unlock Sandy Gleyed Matrix (S4) unlock Restrictive Layer (if present):  Type: Cobble Depth (inches): 4 Hydrick Remarks:    Popth (inches): 4 Hydrick Remarks:   Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)   Surface Water (A1)	
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):  Type: Cobble Depth (inches): 4 Hydric  Remarks:    Primary Indicators (minimum of one required; check all that apply)	tors of hydrophytic vegetation and
Restrictive Layer (if present):  Type: Cobble Depth (inches): 4 Hydric  Remarks:    Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)    Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrogen Sulfice) Saturation Present? Yes No Depth (inches): O-12 Wetland Hydrogen Sulfice) Saturation Present? Yes No Depth (inches): O-12 Wetland Hydrogen Sulfice) Saturation Present? Yes No Depth (inches): O-12 Wetland Hydrogen Sulfice) Saturation Present? Yes No Depth (inches): O-12 Wetland Hydrogen Sulfice) Saturation Present? Yes No Depth (inches): O-12 Wetland Hydrogen Sulfice) Saturation Present? Yes No Depth (inches): O-12 Wetland Hydrogen Sulfide Odor (C1) Sulfide Odor (C1) Sulfide Odor (C1) Sulfide Odor (C3) Sulfide Odor (C3) Sulfide Odor (C4) Sulfide Odor (C3) Sulfide Odor (C4) Sulfide Odor (C4) Sulfide Odor (C4) Sulfide Odor (C4) Sulfide Odor (C4) Sulfide Odor (C4) Sulfide Odor (C5) Sulfide Odor (C6) Sulfide	and hydrology must be present,
Type: Cobble Depth (inches): 4  Remarks:    Popth (inches): 4   Hydric	ss disturbed or problematic.
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Water Table Present?  Yes No Depth (inches):  Saturation (Present? Yes No Depth (inches): Wetland Hydre Reduction Present?  Water Marks:  Hydric  Saturation (As)  Salt Crust (B11)  Salt Crust (B12)  Aquatic Invertebrates (B13)  Aquatic Invertebrates (B13)  Aquatic Invertebrates (B13)  Aquatic Invertebrates (B13)  Aquatic Invertebrates (B13)  Presence of Reduced Iron (C1)  Recent Iron Reduction in Tilled Soils (C6)  Inim Muck Surface (C7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No Depth (inches): Wetland Hydres.	
YDROLOGY   Wetland Hydrology Indicators:   Primary Indicators (minimum of one required; check all that apply) S   Surface Water (A1) Salt Crust (B11)   High Water Table (A2) Biotic Crust (B12)   Saturation (A3) Aquatic Invertebrates (B13)   Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3)   Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)   Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)   Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)   Water-Stained Leaves (B9) Other (Explain in Remarks)   Field Observations:   Surface Water Present? Yes No Depth (inches):   Water Table Present? Yes No Depth (inches):   Saturation Present? Yes No Depth (inches):    Wetland Hydron Amount of the present of the pre	Call Brancost O. Vac. / No.
YDROLOGY   Wetland Hydrology Indicators:   Primary Indicators (minimum of one required; check all that apply) S   Surface Water (A1) Salt Crust (B11)   High Water Table (A2) Biotic Crust (B12)   Saturation (A3) Aquatic Invertebrates (B13)   Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3)   Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)   Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)   Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)   Water-Stained Leaves (B9) Other (Explain in Remarks)   Field Observations:   Surface Water Present? Yes No Depth (inches):   Water Table Present? Yes No Depth (inches):   Saturation Present? Yes No Depth (inches):    Wetland Hydron Wetland Hydron Wetland Hydron Hydro	Soil Present? Yes No
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       S         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)         Saturation (A3)       Aquatic Invertebrates (B13)         Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2) (Nonriverine)       Oxidized Rhizospheres along Living Roots (C3)         Drift Deposits (B3) (Nonriverine)       Presence of Reduced Iron (C4)         Surface Soil Cracks (B6)       Recent Iron Reduction in Tilled Soils (C6)         Inundation Visible on Aerial Imagery (B7)       Thin Muck Surface (C7)         Water-Stained Leaves (B9)       Other (Explain in Remarks)         Field Observations:          Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):	
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Wetland Hydre  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes ✓ No Depth (inches):  Other (Explain in Remarks)	
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Depth (inches): Wetland Hydres No Presence of Reduced Iron (C4)	econdary Indicators (2 or more required)
High Water Table (A2)  ✓ Saturation (A3)  — Water Marks (B1) (Nonriverine) — Sediment Deposits (B2) (Nonriverine) — Drift Deposits (B3) (Nonriverine) — Surface Soil Cracks (B6) — Inundation Visible on Aerial Imagery (B7) — Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No✓ Depth (inches):  Saturation Present?  Wetland Hydre  Aquatic Invertebrates (B13) — Aquatic I	_ Water Marks (B1) (Riverine)
✓ Saturation (A3)	Sediment Deposits (B2) (Riverine)
Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No _ ✓ Depth (inches):  Saturation Present?  Yes No _ Depth (inches):  Saturation Present?  Wetland Hydr	_ Drift Deposits (B3) (Riverine)
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No _ ✓ Depth (inches):  Saturation Present?  Yes No _ Depth (inches):  Saturation Present?  Yes No _ Depth (inches):  Depth (inches): Wetland Hydres)  Wetland Hydres  Saturation Present?  Surface Water Present?  Yes No Depth (inches): Wetland Hydres)	_ Drainage Patterns (B10)
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Field Observations: Surface Water Present?  Water Table Present?  Yes No _ ✓ Depth (inches): Saturation Present?  Yes No _ Depth (inches): Saturation Present?  Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7) Other (Explain in Remarks)  Depth (inches):  Wetland Hydrestand	_ Dry-Season Water Table (C2)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations:  Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydron.	Crayfish Burrows (C8)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations:  Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Wetland Hydrescale	Saturation Visible on Aerial Imagery (C9
	_ Shallow Aquitard (D3)
Field Observations:  Surface Water Present?  Yes No _ ✓ Depth (inches):  Water Table Present?  Yes No _ ✓ Depth (inches):  Saturation Present?  Yes _ ✓ No Depth (inches):  Wetland Hydr	FAC-Neutral Test (D5)
Water Table Present?         Yes No✓ Depth (inches):           Saturation Present?         Yes _✓ No Depth (inches):           Wetland Hydromath	<u> </u>
Water Table Present?         Yes No✓ Depth (inches):           Saturation Present?         Yes _✓ No Depth (inches):           Wetland Hydromath	
Saturation Present? Yes 🗸 No Depth (inches): 0-12 Wetland Hydroxidal Wetland Wetland Hydroxidal Wetlan	
	logy Present? Yes √ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	ology Present? Yes <u>√</u> No
D	
Remarks:	

Project/Site: Sloughhouse Solar Energy Project	C	city/County:	Sacramer	nto County	Sampling Date: <u>11/12/2020</u>
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 162
Investigator(s): A. Godinho and A. Sennett		Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 11
Landform (hillslope, terrace, etc.): Terrace	1	Local relief	(concave, c	convex, none): Concave	Slope (%):0
Subregion (LRR): C	Lat: 38.4	6793886		Long: -121.1793992	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	slopes			NWI classific	eation: n/a
Are climatic / hydrologic conditions on the site typical for this tir					
Are Vegetation, Soil, or Hydrology sign	nificantly d	listurbed?	Are "l	Normal Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydrology natu			(If ne	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh			g point lo	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No _		le th	e Sampled	Area	
Hydric Soil Present? Yes <u>✓</u> No _			in a Wetlan		No
Wetland Hydrology Present? Yes _ ✓ No _					
Remarks:		م م مم براه ،	م بطلمم	CLICD	
Point taken within SW-41. Microdepression p	breviou	isiy map	ped by S	SHCP	
VEGETATION – Use scientific names of plants.					
		Dominant Species?		Dominance Test work	
Tree Stratum         (Plot size:)         9           1		Species?		Number of Dominant Sp	pecies or FAC:1 (A)
2					
3				Total Number of Domin Species Across All Stra	
4					· · ·
		= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor	
1					Multiply by:
2					x 1 =
4					x 2 =
5					x 3 =
_		= Total Co	ver	FACU species	x 4 =
Herb Stratum (Plot size: 1m x 1m )		.,		UPL species	x 5 =
1. Hordeum marinum		Y	FAC	Column Totals:	(A) (B)
2. Rumex dentatus	_	N	FACU	Prevalence Index	= B/A =
3. Briza minor		N	FAC	Hydrophytic Vegetation	
4. <u>Festuca myuros</u> 5. Festuca perennis	<u> </u>	N N	<u>FACU</u> FAC	✓ Dominance Test is	
6. Holocarpha virgata	4.5	N	UPL	Prevalence Index is	
7. Bromus hordeaceus			FACU	Morphological Ada	ptations <sup>1</sup> (Provide supporting
8.					s or on a separate sheet)
_	80	= Total Co	ver	Problematic Hydror	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)				1 Indicators of budgio aci	il and watland hydrology must
1				be present, unless distu	l and wetland hydrology must urbed or problematic.
2		= Total Co	———	Hydrophytic	
				Vegetation	,
% Bare Ground in Herb Stratum 20	Biotic Cru	ust		Present? Yes	s No
Remarks:					

	cription: (Describe	to the dep				or confirm	the absence of	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2	7.5 YR 3/2	95	7.5 YR 4/6	5		PL/M	Silty clay			
						· <del></del>				
				_	-					
				_	-					
				_						
	oncentration, D=Dep Indicators: (Applic					ed Sand Gr		ation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :		
Histosol		able to all	Sandy Red		ieu.)			uck (A9) (LRR C)		
	pipedon (A2)		Stripped M	. ,				uck (A10) (LRR B)		
	istic (A3)		Loamy Mu		al (F1)			ed Vertic (F18)		
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)		
	d Layers (A5) (LRR	C)	Depleted N				Other (I	Explain in Remarks)		
	uck (A9) ( <b>LRR D</b> )		<u>✓</u> Redox Dar		` '					
	d Below Dark Surfac	e (A11)	Depleted D Redox Dep				3ladiantoro	of budges budge vegetation and		
	ark Surface (A12)  Mucky Mineral (S1)		Kedox Dep		(ГО)			of hydrophytic vegetation and hydrology must be present,		
	Gleyed Matrix (S4)		veman ee	)io (i o)				sturbed or problematic.		
	Layer (if present):							•		
Type: <u>ha</u>	rd pan									
Depth (in	ches): 2						Hydric Soil I	Present? Yes √ No		
Remarks:										
HYDROLO	GY									
Wetland Hy	drology Indicators:	:								
Primary India	cators (minimum of o	one require	d; check all that app	oly)			Second	dary Indicators (2 or more required)		
Surface	Water (A1)		Salt Crus	t (B11)			Water Marks (B1) (Riverine)			
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Se	ediment Deposits (B2) (Riverine)		
Saturation	on (A3)		Aquatic Ir	nvertebrate	es (B13)		Dr	ift Deposits (B3) (Riverine)		
Water M	larks (B1) ( <b>Nonrive</b> r	rine)	Hydroger					ainage Patterns (B10)		
	nt Deposits (B2) (No		✓ Oxidized		•	-		y-Season Water Table (C2)		
	posits (B3) (Nonrive	erine)	Presence					ayfish Burrows (C8)		
	Soil Cracks (B6)					ed Soils (C6		aturation Visible on Aerial Imagery (C9)		
· · · · · · · · · · · · · · · · · · ·	on Visible on Aerial stained Leaves (B9)	imagery (B	, <u> </u>	k Surface				nallow Aquitard (D3) NC-Neutral Test (D5)		
Field Obser	( )		Other (Ex	plain in Re	emarks)	1		AC-Neutral Test (D5)		
Surface Wat		/ec	No <u>√</u> Depth (ir	nches):						
Water Table			No <u>✓</u> Depth (ir							
Saturation P			No <u>✓</u> Depth (ir				and Hydrology	Present? Yes No		
(includes cap	oillary fringe)	es	ivo <u>v</u> Deptii (ii	iches)		_   ••••••	and Hydrology	rieseitt: ies <u>v</u> NO		
Describe Re	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, pi	revious ins	spections),	if available:			
Remarks:										

Project/Site: Sloughhouse Solar Energy Project	City/Cou	<sub>ınty:</sub> <u>Sacramer</u>	nto County	Sampling Date	e: <u>11/12/</u>	/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	Sampling Poin	nt: <u>16</u>	3
Investigator(s): A. Godinho and A. Sennett	Section	, Township, Rar	nge: Township 7N / F	Range 7E / Secti	on 11	
Landform (hillslope, terrace, etc.): <u>Drainage</u>	Local re	elief (concave, c	convex, none): None		Slope (%): _	5
Subregion (LRR): C Lat:	38.467312	.72	Long: -121.1807912	2 <sub>Da</sub>	atum: WGS	84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slope	es		NWI classi	ification: n/a		
Are climatic / hydrologic conditions on the site typical for this time of						
Are Vegetation, Soil, or Hydrology significar			Normal Circumstances		✓ No	
Are Vegetation, Soil, or Hydrology naturally		eded, explain any ansv				
SUMMARY OF FINDINGS – Attach site map showi						, etc.
Hydrophytic Vegetation Present? Yes No✓			_			
Hydric Soil Present? Yes No _✓	"	s the Sampled		No _ <b>√</b>		
Wetland Hydrology Present? Yes No✓		vithin a Wetlan	.d? Yes	NO <u>V</u>	_	
Remarks:						
Visible aerial signature is due to a different uplan	nd plant	species ass	emblage.			
VEGETATION – Use scientific names of plants.						
		ant Indicator	Dominance Test wo	rksheet:		
		es? Status	Number of Dominant		0	
1			That Are OBL, FACW	V, or FAC:	0 (	(A)
2			Total Number of Dom		2 (	(D)
4			Species Across All St		(	(D)
0	) = Total		Percent of Dominant That Are OBL, FACW		0	(A/B)
Sapling/Shrub Stratum (Plot size:)						
1			Prevalence Index we		tial char	
2			Total % Cover of OBL species 0	x 1 =		
3			FACW species 0			
5				x 3 =		
	) = Total	Cover	FACU species 75			_
Herb Stratum (Plot size: 5m x 5m )			UPL species 25	x 5 = _	125	<u>-</u>
1. Holocarpha virgata 20		UPL	Column Totals:	100 (A) _	425	(B)
	5 Y		Provolence Inde	ex = B/A =	4 25	
<u> </u>		UPL	Hydrophytic Vegeta			-
4			Dominance Test			
5			Prevalence Index			
7				daptations <sup>1</sup> (Provi	de supportir	ng
8			data in Rema	rks or on a separa	ate sheet)	
100	00 = Total	Cover	Problematic Hyd	rophytic Vegetation	on' (Explain)	)
Woody Vine Stratum (Plot size:)			No dia atama at budia a			4
1			<sup>1</sup> Indicators of hydric s be present, unless dis			ust
2	) = Total		Hydrophytic			
			Vegetation		,	
% Bare Ground in Herb Stratum 0	tic Crust		Present?	Yes No		
Remarks:						

Profile Description: (Describe to the depth	needed to document the indic	cator or confirm the	e absence of indicators.)
Depth Matrix	Redox Features	1 . 2	
(inches) Color (moist) %	Color (moist) % Ty	ype <sup>1</sup> Loc <sup>2</sup> -	Texture Remarks
<u>0-2</u> <u>10 YR 3/2</u> <u>100</u>		<u>Sil</u>	ty clay
<del></del>		<del></del>	
1Tune: C. Concentration D. Donletion DM D.	advess Metrix CC Covered or	Coated Coad Crains	21 continue DI Doro Lining M Matrix
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Re Hydric Soil Indicators: (Applicable to all LR			s. <sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	•	1 cm Muck (A9) ( <b>LRR C</b> )
Histosof (A1) Histic Epipedon (A2)	Stripped Matrix (S6)	-	2 cm Muck (A10) ( <b>LRR B</b> )
Black Histic (A3)	Loamy Mucky Mineral (F1	-	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	_	Other (Explain in Remarks)
1 cm Muck (A9) ( <b>LRR D</b> )	Redox Dark Surface (F6)		
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F	· ·	_
Thick Dark Surface (A12)	Redox Depressions (F8)	3	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):			unless disturbed or problematic.
Type: hard pan			
,, <u> </u>	_	ļ.,	huduia Cail Brasanto Vac. No. /
Depth (inches): 2	_	Н	lydric Soil Present? Yes No✓
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; of	heck all that apply)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B	13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (	,	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	· ·		C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iro		Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in		Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	, ,	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remark	ks)	FAC-Neutral Test (D5)
Field Observations:	<u> </u>		
Surface Water Present? Yes No	Depth (inches):		
	✓ Depth (inches):		
	✓ Depth (inches):		Hydrology Present? Yes No✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previo	us inspections), if av	/ailable:
Remarks:			

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date:11/12/2020
Applicant/Owner: D.E. Shaw Renewable Investments	State: <u>CA</u> Sampling Point: <u>164</u>
	Section, Township, Range: Township 7N / Range 7E / Section 14
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): Concave Slope (%): 0
	38.46651503 Long: -121.180142 Datum: WGS84
	es NWI classification: n/a
Are climatic / hydrologic conditions on the site typical for this time o	of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes   ✓ No  No  No  No	within a Watland?
associated feature: VP-07 2 part vernal pool complex connected by a swale	e
VEGETATION – Use scientific names of plants.	
	ute Dominant Indicator   Dominance Test worksheet:
	ver Species? Status Number of Dominant Species
1	
2	Total Number of Dominant
3	
0	Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)	Prevalence Index worksheet:
1	<del></del>
3	
4	
5	
0	
Herb Stratum (Plot size: 1m x 1m )	UPL species x 5 =
1. Spergularia rubra 25	5 Y FAC Column Totals: (A) (B)
-	5 Y FACW
	5 Y OBL Prevalence Index = B/A =
	N FAC Hydrophytic Vegetation Indicators:
	N FACU ✓ Dominance Test is >50%
	O N OBL Prevalence Index is ≤3.0¹
7	data in Remarks or on a senarate sheet)
8	Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:)	5 = Total Cover = Total Cover
1	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.	Libe present lunless disturbed or problematic
	Total Cover Hydrophytic Vegetation
% Bare Ground in Herb Stratum25	tic Crust0 Present? Yes✓ No
Remarks:	1
Polypogon monspeliensis	
Briza minor	
Perimeter dominated by Festuca perennis; Swal	le dominated by Fesper/ Erycas

	cription: (Describe	to the dep				or confirm	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	<u>Type<sup>1</sup></u>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/2	75	7.5 YR 4/6	25	С	М	Silty clay	
	oncentration, D=Dep					ed Sand G		tion: PL=Pore Lining, M=Matrix.
_	Indicators: (Applic	able to all	LRRs, unless other	erwise not	ted.)		Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,				uck (A9) (LRR C)
	pipedon (A2)		Stripped M		ol (E4)			ick (A10) (LRR B)
	istic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle					d Vertic (F18) ent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N	-	. ,			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	-,	✓ Redox Dar					,
Depleted	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,
	Bleyed Matrix (S4)  Layer (if present):						uniess ais	turbed or problematic.
Type: ha								
Depth (in							Hydric Soil P	Present? Yes No
Remarks:	C1103). <u>+</u>						Tiyane con i	resent: res_v No
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one require	d; check all that app	ly)			Second	ary Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	t (B11)			Wa	iter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sec	diment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic Ir		` '		Dri	ft Deposits (B3) (Riverine)
·	larks (B1) (Nonrive	•	Hydrogen				· · · · · · · · · · · · · · · · · · ·	ainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized		_	_		v-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					ayfish Burrows (C8)
	Soil Cracks (B6) on Visible on Aerial	Imagany (P	<del></del>	k Surface		ed Soils (Co	· —	turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
	stained Leaves (B9)	iiiagery (b	· —	plain in R	` '		<del></del>	C-Neutral Test (D5)
Field Obser	· /		Other (EX	.piaiii iii ik	emanto)			o Hediai Test (Bo)
Surface Wat		/es	No <u>✓</u> Depth (ir	nches):				
Water Table			No <u>√</u> Depth (ir					
Saturation P			No <u>✓</u> Depth (ir			l l	land Hydrology	Present? Yes √ No
(includes car	oillary fringe)							100 <u> </u>
Describe Re	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, p	revious ins	spections),	if available:	
Remarks:								

Wetland Hydrology Present? Yes No ✓ Within a Wetland? Yes No ✓  Remarks:  Associated feautre: VP-08.	Project/Site: Sloughhouse Solar Energy Project	City/County: Sacrame	nto County	Sampling Date: 11/12/2020
Local relief (concave, convex, none): None Slope (%):	Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 165
Local relief (concave, convex, none): None Slope (%):	Investigator(s): A. Godinho and A. Sennett	Section, Township, Rar	<sub>nge:</sub> Township 7N / Ra	nge 7E / Section 14
oil Map Unit Name: Haddelville-Pentz complex, 2 - 30% slopes  NWI classification: n/a  re climate/ hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  re Vegetation Soil or Hydrology significantly disturbed?	Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, o	convex, none): None	Slope (%):0
oil Map Unit Name: Haddelville-Pentz complex, 2 - 30% slopes  NWI classification: n/a  re climate/ hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  re Vegetation Soil or Hydrology significantly disturbed?	Subregion (LRR): Lat: 3	8.4653026	Long: -121.1809812	Datum: WGS84
re climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) re Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No re Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  ### Without the Vegetation Present?				
re Vegetation				
re Vegetation Soil or Hydrology naturally problematic? ((If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?				
Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No Within				
No   Vest   No   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest				
No   Vest   No   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest   No   Vest	Hydrophytic Vegetation Present? Yes No ✓			
Vest   No   V		is the Sampled		No. ✓
Absolute   Absolute	Wetland Hydrology Present? Yes No✓	— Within a Wetian	id? fes	NO
Absolute	Remarks:			
Absolute	Associated feautre: VP-08.			
Absolute				
Number of Dominant Species   That Are OBL, FACW, or FAC:   (A)	VEGETATION – Use scientific names of plants.			
1				
Total Number of Dominant Species Across All Strata:				
3.				
Sapling/Shrub Stratum (Plot size:)				
That Are OBL, FACW, or FAC:				
Prevalence Index worksheet:   Total % Cover of:    Multiply by:	0	= Total Cover		
Total % Cover of:    Multiply by:			Prevalence Index wor	kshoot:
OBL species				
4				
FAC species   x 3 =				
D			FAC species	x 3 =
1. Elymus caput-medusae 2. Bromus hordeaceus 3. Holocarpha virgata 4	0	= Total Cover		
2. Bromus hordeaceus 3. Holocarpha virgata 4. UPL 4. Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is ≤3.0¹  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  1. Undicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0 Present? Yes No ✓		LIDI		
3. Holocarpha virgata  4. Hydrophytic Vegetation Indicators:  5. Dominance Test is >50%  6. Prevalence Index is ≤3.0¹  — Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  — Problematic Hydrophytic Vegetation¹ (Explain)  1. Provide Stratum (Plot size:  100 = Total Cover  Woody Vine Stratum (Plot size:  2. UPL Prevalence Index = B/A = 4.75  Hydrophytic Vegetation Indicators:  — Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  — Problematic Hydrophytic Vegetation¹ (Explain)  1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1. Hydrophytic Vegetation  Present? Yes No _✓			Column Totals:	(A) (B)
Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  100 = Total Cover    100 = Total Cover			Prevalence Index	= B/A = 4.75
5 Dominance Test is >50% 6 Prevalence Index is ≤3.0¹ 7 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 8 100 _ = Total Cover  Woody Vine Stratum (Plot size:) 1 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
6 Prevalence Index is ≤3.0¹  7 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  8 100 _= Total Cover  Woody Vine Stratum (Plot size:)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  9 0 _= Total Cover  Water in Remarks or on a separate sheet)  1 Problematic Hydrophytic Vegetation¹ (Explain)  1 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 1			Dominance Test is	>50%
8				
100   = Total Cover   Problematic Hydrophytic Vegetation¹ (Explain)	7		Morphological Ada	ptations <sup>1</sup> (Provide supporting
Woody Vine Stratum (Plot size:)  1				' '
1	Woody Vino Stratum (Plot cizo:	= Total Cover	r robiematio r iyaro	priyito vogotation (Explain)
2			<sup>1</sup> Indicators of hydric soi	and wetland hydrology must
= Total Cover				
% Bare Ground in Herb Stratum0  % Cover of Biotic Crust0				
	% Bare Ground in Herb Stratum 0 % Cover of Biotic	c Crust 0		s No √
		<u></u> -	100	

Profile Desc	ription: (Describe	to the depth	needed to document th	e indicator o	r confirm	the absence	of indicators.)
Depth	Matrix (assist)		Redox Featu		Loc <sup>2</sup>	T t	Damada
(inches)	Color (moist)	<u>%</u>	Color (moist) %	Type <sup>1</sup>	LOC	Texture	Remarks
0-2	10 YR 3/2	100			<u>.</u>	Silty clay	
					<u>.</u>		
				<u> </u>			
			Reduced Matrix, CS=Cove		Sand Gra		ation: PL=Pore Lining, M=Matrix.
_		able to all L	RRs, unless otherwise n	oted.)			for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Redox (S5)				luck (A9) (LRR C)
	pipedon (A2)		Stripped Matrix (S6				luck (A10) (LRR B)
Black Hi	` '		Loamy Mucky Mine				ed Vertic (F18) arent Material (TF2)
	n Sulfide (A4) d Layers (A5) ( <b>LRR</b>	<b>C</b> )	Loamy Gleyed Mat Depleted Matrix (F				Explain in Remarks)
	ick (A9) (LRR D)	<b>C</b> )	Redox Dark Surface			Other (	Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Dark Sur	` '			
	ark Surface (A12)	- (	Redox Depression	. ,		<sup>3</sup> Indicators	of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pools (F9)			wetland h	nydrology must be present,
	leyed Matrix (S4)					unless di	sturbed or problematic.
	ayer (if present):						
Type: ha	rd pan		<u>—</u>				
Depth (inc	ches): 2		<u></u>			Hydric Soil	Present? Yes No✓
Remarks:						L	
	CV						
HYDROLO							
_	drology Indicators:						
		one required;	check all that apply)				dary Indicators (2 or more required)
	Water (A1)		Salt Crust (B11)				ater Marks (B1) (Riverine)
_	iter Table (A2)		Biotic Crust (B12)				ediment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic Invertebra	, ,			rift Deposits (B3) (Riverine)
	arks (B1) (Nonrive		Hydrogen Sulfide				rainage Patterns (B10)
	nt Deposits (B2) (No			•	•	, ,	ry-Season Water Table (C2)
	oosits (B3) (Nonrive	rine)	Presence of Redu				rayfish Burrows (C8)
	Soil Cracks (B6)	. (5-)	Recent Iron Redu		Soils (C6	, <u> </u>	aturation Visible on Aerial Imagery (C9)
· · · · · · · · · · · · · · · · · · ·	on Visible on Aerial	Imagery (B7)				·	nallow Aquitard (D3)
	tained Leaves (B9)		Other (Explain in	Remarks)		F/	AC-Neutral Test (D5)
Field Observ							
Surface Water			Depth (inches):				
Water Table			Depth (inches):				,
Saturation Pr		/es N	o Depth (inches): _		_ Wetla	and Hydrology	Present? Yes No
(includes cap Describe Red		n gauge, mon	itoring well, aerial photos,	previous insp	ections) i	if available:	
Describe rec	soraca Data (stream	r gaage, mon	itoring well, dental priotos,	provious map	,00010110), 1	ii avaliabio.	
Domostica							
Remarks:							

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramer	nto County	Sampling Date:11/11/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point:167
Investigator(s): L. Burris and A. Sennett	Section, Township, Rar	nge: <u>Township 7N / Ra</u> i	nge 7E / Section 02
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, c	convex, none): None	Slope (%):1%
Subregion (LRR): Lat:			
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slop			
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology significa			
Are Vegetation, Soil, or Hydrology naturally		eded, explain any answer	
SUMMARY OF FINDINGS – Attach site map show			
Hydrophytic Vegetation Present? Yes ✓ No			· · · · · · · · · · · · · · · · · · ·
Hydric Soil Present? Yes No✓	i is the sambled		No <u>√</u> _
Wetland Hydrology Present? Yes No✓	— Within a Wetian	id: Tes	NO <u></u>
Remarks:			
Associated Feature: P-01			
Area in cattle enclosure, severe disturbance fron	n overgrazing and tra	mpling.	
VEGETATION – Use scientific names of plants.			
Abso		Dominance Test works	sheet:
	ver Species? Status	Number of Dominant Sp	
1		That Are OBL, FACW, o	1 (A)
3		Total Number of Domina Species Across All Strat	
4.			· · · · · · · · · · · · · · · · · · ·
	= Total Cover	Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)		Prevalence Index work	
1			Multiply by:
2			x 1 =
4.			x 2 =
5.		FAC species	x 3 =
	= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size: 5m x 5m )	V	UPL species	
1. Polygonum aviculare 5		Column Totals:	(A) (B)
2		Prevalence Index	= B/A =
4		Hydrophytic Vegetatio	
5		✓ Dominance Test is	>50%
6.		Prevalence Index is	
7		Morphological Adap	otations <sup>1</sup> (Provide supporting or on a separate sheet)
8			phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover	1 Toblematic Hydrop	Trytto Vegetation (Explain)
1		<sup>1</sup> Indicators of hydric soil	and wetland hydrology must
2.		be present, unless distu	rbed or problematic.
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum95 % Cover of Bio	tic Crust 0	Vegetation Present? Yes	s✓ No
Remarks:			<u> </u>

SOIL	Sampling Point: _	167

Profile Desc	cription: (Describe	to the depth	n needed to docur	ment the i	indicator	or confirm	the absence of ir	ndicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remark	KS
0-3	7.5 YR 3/2	100					Silty clay		
		<del></del>							
				-					
1Typo: C-C	oncentration, D=Dep	lotion PM-E	Poducod Matrix CS	S-Covered	d or Coato	d Sand Gr	rains <sup>2</sup> L acation	n: PL=Pore Lining	N-Matrix
	Indicators: (Applic					a Sana Gr		Problematic Hydi	
Histosol			Sandy Red		,			(A9) ( <b>LRR C</b> )	
_	oipedon (A2)		Stripped Ma	, ,				(A10) ( <b>LRR B</b> )	
	stic (A3)		Loamy Muc	, ,	l (F1)		Reduced V		
— Hydroge	en Sulfide (A4)		Loamy Gley					t Material (TF2)	
	d Layers (A5) (LRR	C)	Depleted M		, ,			lain in Remarks)	
	ıck (A9) ( <b>LRR D</b> )		Redox Dark	Surface	(F6)				
Depleted	d Below Dark Surfac	e (A11)	Depleted D	ark Surfac	e (F7)				
	ark Surface (A12)		Redox Dep		F8)			ydrophytic vegetat	
	Mucky Mineral (S1)		Vernal Pool	s (F9)				ology must be pre	
	Sleyed Matrix (S4)						unless disturl	bed or problemation	C.
	Layer (if present):								
Type: <u>cla</u>			<u>—</u>						
Depth (inc	ches): <u>3</u>						Hydric Soil Pres	sent? Yes	No <u>√</u>
Remarks:									
Cows hav	e trampled soi	l into fine	silty soil miv	ad with	hay an	nd cow r	noon hard clay	v laver ahout	3 inches
under fin	•	i iiito iiiie	e, silly soll lilla	eu witi	i iiay ai	iu cow p	Joop. Hard Cla	y layer about	3 IIICHES
under iin	е								
HYDROLO	GY								
	drology Indicators:								
_	cators (minimum of		check all that appl	v)			Secondary	/ Indicators (2 or n	nore required)
	Water (A1)	ono roquirou,	Salt Crust					Marks (B1) (Rive	
	ater Table (A2)		Biotic Crus	` ,				nent Deposits (B2)	
Saturation	` '		Aquatic In		oc (B12)			Deposits (B3) ( <b>Riv</b> e	
	larks (B1) ( <b>Nonrive</b> i	ino\							
· <del></del>	, , ,	*	Hydrogen			Livina Doo		age Patterns (B10)	,
	nt Deposits (B2) (No		Oxidized F		_	_		eason Water Table	e (C2)
	posits (B3) (Nonrive	rine)	Presence					sh Burrows (C8)	rial Imagary (CO)
	Soil Cracks (B6)	Imagan, (D7)	Recent Iro			u Solis (Co		ation Visible on Ae	mai imagery (C9)
	on Visible on Aerial tained Leaves (B9)	imagery (B7)			` '			ow Aquitard (D3) Neutral Test (D5)	
Field Obser	. ,		Other (Exp	Diain in Re	emarks)	1	FAC-I	veutrai Test (D5)	
		/ NI	Danth (in	-1					
Surface Water			o <u>√</u> Depth (in						
Water Table			o <u>√</u> Depth (in						,
Saturation Procession (includes cap		′es N	o <u>✓</u> Depth (in	ches):		_ Wetla	and Hydrology Pre	esent? Yes	No <u></u> ✓
	corded Data (stream	n gauge, mor	itoring well, aerial	photos, pr	evious ins	pections),	if available:		
Remarks:									

Project/Site: Sloughhouse Solar Energy Project		City/County	<sub>y:</sub> <u>Sacrame</u> ı	nto County	Sampling Date: 11/11/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 169
Investigator(s): L. Burris and A. Sennet	{	Section, To	ownship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 11
Landform (hillslope, terrace, etc.): flatlands		Local relie	f (concave, o	convex, none): concave	Slope (%):0
Subregion (LRR):	Lat: 38.4	17942413	3	Long: -121.1845532	Datum: WGS84
Soil Map Unit Name: San Joaquin silt loam, 3 - 8% slope					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation					oresent? Yes No _✓
Are Vegetation, Soil, or Hydrology na				eded, explain any answe	
					,
SUMMARY OF FINDINGS – Attach site map s	nowing	Sampin	ig point it	ocations, transects	, important leatures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓ No  Yes  ✓ No  Remarks:			he Sampled hin a Wetlan		No
Associated feature: SW 38. Closed depressio upland/pasture to the north	n/seaso	nal wet	land that	collects water/run	-off from
VEGETATION – Use scientific names of plants					
Tree Stratum (Plot size:) 1		Species?	Status	Number of Dominant S That Are OBL, FACW,	pecies
2				Total Number of Domin Species Across All Stra	
4				Percent of Dominant Sp That Are OBL, FACW,	
1				Prevalence Index wor	ksheet:
2.				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4				FACW species	x 2 =
5				-	x 3 =
Herb Stratum (Plot size: 5m x 5m )		= Total Co	over		x 4 =
1. Eryngium sp.	3	Υ	OBL	UPL species	
2. Hordeum marinum		Υ	FAC	Column Totals:	(A) (B)
3.				Prevalence Index	= B/A =
4				Hydrophytic Vegetation	on Indicators:
5				Dominance Test is	
6			<u> </u>	Prevalence Index is	
7					ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8	_	= Total Co			phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		= Total Co	over		
1 2				<sup>1</sup> Indicators of hydric soi be present, unless distu	l and wetland hydrology must urbed or problematic.
			over	Hydrophytic	
	of Biotic Cr	ust	0	Vegetation Present? Ye	s√ No
Remarks:					
grazing/cattle use of wetland - soil very dist	urbed -	minima	al veg cov	er	

		to the de	oth needed to docu	ment the		or confirm	n the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5 Y/R 3/2	95	5 YR 5/6	5	С	PL/M	clay silt	
			_		-	<del></del>		
		_						
				_	_			
			-					
				_	_			
¹Type: C=C	oncentration, D=De	pletion, RM	l=Reduced Matrix, C	S=Covere	ed or Coat	ed Sand Gr	rains. <sup>2</sup> Locat	ion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to al	I LRRs, unless other	erwise no	ted.)		Indicators fo	r Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	lox (S5)			1 cm Mu	ck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped M					ck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu					Vertic (F18)
	en Sulfide (A4)	<b>C</b> \	Loamy Gle	-	. ,			ent Material (TF2)
	d Layers (A5) (LRR uck (A9) (LRR D)	C)	Depleted M Redox Dar	, ,			Other (E)	xplain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted D		. ,			
	ark Surface (A12)	, , , ,	✓ Redox Dep				3Indicators of	hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		` ,			drology must be present,
Sandy C	Gleyed Matrix (S4)							urbed or problematic.
	Layer (if present):							
Type: cla								
Depth (in	ches): <u>2</u>						Hydric Soil Pi	resent? Yes <u>√</u> No
Remarks:							•	
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one require	ed; check all that app	ly)			Seconda	ary Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	t (B11)			Wat	er Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sed	liment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic Ir	nvertebrate	es (B13)		Drift	t Deposits (B3) (Riverine)
Water M	farks (B1) (Nonrive	rine)	Hydrogen	Sulfide C	odor (C1)		Drai	inage Patterns (B10)
Sedime	nt Deposits (B2) (No	onriverine)	✓ Oxidized	Rhizosphe	eres along	Living Roo	ots (C3) Dry-	-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence					yfish Burrows (C8)
	Soil Cracks (B6)					ed Soils (C6	·	uration Visible on Aerial Imagery (C9)
· <del></del>	on Visible on Aerial	Imagery (E	, <u>—</u>		, ,			llow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in R	emarks)		FAC	C-Neutral Test (D5)
Field Obser			,					
Surface Wat			No ✓ Depth (ir					
Water Table			No <u>✓</u> Depth (ir					
Saturation P	resent?  pillary fringe)	Yes	No <u>✓</u> Depth (ir	nches):		Wetl	and Hydrology F	Present? Yes <u>√</u> No
		n gauge, m	onitoring well, aerial	photos, p	revious in	spections),	if available:	
			-					
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	(	City/County	<sub>r:</sub> <u>Sacrame</u>	nto County	Sampling Date:11/11/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 170
Investigator(s): L. Burris and A. Sennet	;	Section, To	wnship, Rai	nge: <u>Township 7N / Ra</u>	nge 7E / Section 10
Landform (hillslope, terrace, etc.): terrace		Local relief	(concave,	convex, none): concave	Slope (%):0
Subregion (LRR):	Lat: 38.4	47659009		Long: -121.1897682	Datum: WGS84
Soil Map Unit Name: San Joaquin silt loam, 3 - 8% slope					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology sig					resent? Yes No
Are Vegetation, Soil, or Hydrology na				eded, explain any answei	
SUMMARY OF FINDINGS – Attach site map s			,		•
				· · · · · · · · · · · · · · · · · · ·	<u> </u>
Hydrophytic Vegetation Present? Yes _ ✓ No Hydric Soil Present? Yes _ ✓ No		Is th	ne Sampled	Area	
Wetland Hydrology Present?  Yes  No		with	in a Wetlan	nd? Yes <u>✓</u>	No
Remarks:					
Associated feature: SW39. Depression betw	leen twi	o hills			
Associated reactive. Sw35. Depression betw	reen ew	0 111113			
VEGETATION Has a significant or a significant of the second of the second of the second of the second or s					
VEGETATION – Use scientific names of plants		D'	La Pastas	l Barriaga Taganan	-1
		Dominant Species?		Dominance Test works  Number of Dominant Sp	
1				That Are OBL, FACW, of	
2				Total Number of Domina	ant
3				Species Across All Stra	
4				Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, o	
1				Prevalence Index worl	ksheet:
2.				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4				FACW species	x 2 =
5				*	x 3 =
Herb Stratum (Plot size: 5m x 5m )		= Total Co	ver		x 4 =
1. Festuca perennis	30	Υ	FAC		x 5 =
2. Hordeum marinum	20	Υ	FAC	Column Totals:	(A) (B)
3. Polygonum aviculare	5	N	FAC	Prevalence Index	= B/A =
4. Lactuca serriola	5	N	FACU	Hydrophytic Vegetation	on Indicators:
5				✓ Dominance Test is	
6				Prevalence Index is	
7					ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8					ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	- 00	= Total Co	ver		
1					and wetland hydrology must
2				be present, unless distu	irbed or problematic.
		= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 40	of Biotic Cr	rustC	)		s No
Remarks:				I	
Rumex crispus just outside plot					

Depth	Matrix Color (moiot)	0/	Red	0/		Loc <sup>2</sup>	Touture	Damarka
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		<u>Texture</u>	Remarks
0-4	7.5 Y/R 3/2	95	5 YR 4/6	5	<u>C</u>	M/PL	silty clay	
			-		_			
					-			
			-		_			
Type: C=Co	ncentration, D=De	pletion, RM:	=Reduced Matrix, C	S=Covere	d or Coat	ed Sand G		ation: PL=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators: (Appli	cable to all	LRRs, unless other	erwise not	ted.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol (	,		Sandy Re					uck (A9) ( <b>LRR C</b> )
	ipedon (A2)		Stripped N					uck (A10) ( <b>LRR B</b> )
Black His	` '			icky Minera				ed Vertic (F18)
	Sulfide (A4)	0)		eyed Matrix				rent Material (TF2)
	Layers (A5) (LRR	<b>C</b> )		Matrix (F3)			Other (	Explain in Remarks)
	ck (A9) ( <b>LRR D</b> ) Below Dark Surfa	re (Δ11)		rk Surface Dark Surfa	. ,			
	rk Surface (A12)	Je (ATT)	✓ Redox De		, ,		<sup>3</sup> Indicators (	of hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Po		(. 0)			nydrology must be present,
	eyed Matrix (S4)		_	( - /				sturbed or problematic.
	ayer (if present):							·
Type: clay	,							
1 ypc	<u> </u>							
Depth (incl							Hydric Soil	Present? Yes √ No
Depth (incl							Hydric Soil	Present? Yes <u>√</u> No
Depth (incl	hes): <u>4</u>						Hydric Soil	Present? Yes <u>√</u> No
Depth (incl Remarks:	hes): <u>4</u>						Hydric Soil	Present? Yes <u>√</u> No
Depth (incl Remarks: YDROLOG Wetland Hyd	hes): 4  GY rology Indicators							
Depth (incl Remarks: YDROLOG Wetland Hyd	hes): 4  GY rology Indicators		d; check all that app	oly)				Present? Yes √ No
Depth (incl Remarks:  YDROLOG Wetland Hyd Primary Indica Surface V	GY rology Indicators ators (minimum of Vater (A1)		Salt Crus	st (B11)			<u>Secon</u>	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Depth (incl Remarks:  YDROLOG Wetland Hyd Primary Indica Surface V	GY rology Indicators		•	st (B11)			<u>Secon</u>	dary Indicators (2 or more required)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V	Figure 1. A section of the section o		Salt Crus	st (B11) ust (B12)	es (B13)		Secon. W Se	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Depth (incl Remarks:  YDROLOG  Wetland Hyd  Primary Indica  Surface V  High Wat  Saturation  Water Ma	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive	one require	Salt Crus Biotic Cru Aquatic I Hydroge	st (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		Second   W   Second   Dr   Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (incl Remarks:  IYDROLOG  Wetland Hyd  Primary Indica  Surface V  High Wat  Saturation  Water Ma	Frology Indicators (minimum of Water (A1) per Table (A2) in (A3)	one require	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	odor (C1) eres along	-	Secon W Se Dr Dr Dr ots (C3) Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of Water (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No	one require rine) onriverine)	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	odor (C1) eres along ed Iron (C	4)	Secon W Se Dr Dr Dr Dts (C3) Dr Cr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of Nater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No	one require rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic I Hydrogel Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	odor (C1) eres along ed Iron (C ion in Tille	4)	Secondary  W Se Dr Dr Cots (C3) Dr Cr Se Secondary	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9
Depth (incl Remarks:  IYDROLOG  Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo ✓ Surface S Inundatio	rology Indicators ators (minimum of Water (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) n Visible on Aerial	one require rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent Iu Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface	odor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Secondary  W Secondary  Dr Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depot V Surface S Inundatio Water-Sta	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) en Visible on Aerial ained Leaves (B9)	one require rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent Iu Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	odor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Secondary  W Secondary  Dr Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Saturation Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations:	one require rine) onriverine) erine) Imagery (B	Salt Crus Biotic Crus Aquatic I Hydrogei Oxidized Presence Recent Ii Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (Co	Secondary  W Secondary  Dr Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Saturation Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta	rology Indicators ators (minimum of Water (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations: r Present?	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydrogel Oxidized Presence Recent Ir 7) Thin Muc Other (E:	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (Co	Secondary  W Secondary  Dr Dr Cr Cr Sr Sr Sr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta Field Observ Surface Water	rology Indicators ators (minimum of Water (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations: r Present?	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent I Thin Muc Other (E:  No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct ck Surface explain in Re nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (Co	Second  W Second  Second  Cond   dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)	
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta Field Observ Surface Wate Water Table F Saturation Pre	rology Indicators ators (minimum of Water (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? esent?	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Cru Aquatic I Hydrogel Oxidized Presence Recent Ir 7) Thin Muc Other (E:	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct ck Surface explain in Re nches):	odor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (Co	Second  W Second  Second  Cond   dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)	
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta Field Observ Surface Water Water Table F Saturation Pre (includes capi	rology Indicators ators (minimum of Nater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive control (B3) (Nonrive cont	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) ed Soils (Co	Secondary  — W — Secondary — W — Dr — Dr — Cr — Cr 6) ✓ Sa — Sr — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta Field Observ Surface Water Water Table F Saturation Pre (includes capi	rology Indicators ators (minimum of Nater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive control (B3) (Nonrive cont	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent I Thin Muc Other (E:  No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) ed Soils (Co	Secondary  — W — Secondary — W — Dr — Dr — Cr — Cr 6) ✓ Sa — Sr — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incl Remarks:  IYDROLOG  Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta  Field Observ Surface Wate Water Table F Saturation Pre (includes capi Describe Reco	rology Indicators ators (minimum of Nater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive control (B3) (Nonrive cont	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) ed Soils (Co	Secondary  — W — Secondary — W — Dr — Dr — Cr — Cr 6) ✓ Sa — Sr — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incl Remarks:  IYDROLOG  Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta  Field Observ Surface Wate Water Table F Saturation Pre (includes capi Describe Reco	rology Indicators ators (minimum of Nater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive control (B3) (Nonrive cont	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) ed Soils (Co	Secondary  — W — Secondary — W — Dr — Dr — Cr — Cr 6) ✓ Sa — Sr — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta Field Observ Surface Water Water Table F Saturation Pre (includes capi	rology Indicators ators (minimum of Nater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive control (B3) (Nonrive cont	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) ed Soils (Co	Secondary  — W — Secondary — W — Dr — Dr — Cr — Cr 6) ✓ Sa — Sr — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)
Depth (incl Remarks:  IYDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo V Surface S Inundatio Water-Sta Field Observ Surface Wate Water Table F Saturation Pre (includes capi Describe Reco	rology Indicators ators (minimum of Nater (A1) er Table (A2) n (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive control (B3) (Nonrive cont	rine) porriverine) lmagery (B	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent Ir 7) Thin Muc Other (E: No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	odor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) ed Soils (Co	Secondary  — W — Secondary — W — Dr — Dr — Cr — Cr 6) ✓ Sa — Sr — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)

roject/Site: Sloughhouse Solar Energy Project City/County: Sacramento County Sampling Date: 11/11/2020					
Applicant/Owner: D.E. Shaw Renewable Investments					
Investigator(s): L. Burris and A. Sennet Section, Township, Range: Township 7N / Range 7E / Section 10					
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, convex, none): none Slope (%): 1				
Subregion (LRR):	Lat: <u>38.47649204</u> Long: <u>-121.1899073</u> Datum: <u>WGS84</u>				
Soil Map Unit Name: San Joaquin silt loam, 3 - 8% slopes NWI classification: n/a					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturbed?					
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No		ls th	ne Sampled	Area	
Hydric Soil Present? Yes <u>✓</u> No			nin a Wetlan		No <u>√</u>
Wetland Hydrology Present? Yes No					
Remarks:					
Associated feature: SW39/					
VEGETATION – Use scientific names of plants.					
		Dominant Species?	Indicator Status	Dominance Test work	
1				Number of Dominant Sp That Are OBL, FACW, of	
2					` ` '
3				Total Number of Domin Species Across All Stra	
4				Percent of Dominant Sp	
= Total Cover   That Are OBL FACW or FAC 0 (A/B)					
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor	ksheet:
1 2					Multiply by:
3					x 1 =
4.					x 2 =
5				FAC species	x 3 =
Em v Em		= Total Co	over	FACU species	x 4 =
Herb Stratum (Plot size: 5m x 5m )  1. Elymus caput-medusae	55	Υ	NL		x 5 =
2. Bromus hordeaceus	20	Y	FACU	Column Totals:	(A) (B)
3. Bromus diandrus	10	N	NL	Prevalence Index	= B/A =
4. Lactuca serriola	5	N	FACU	Hydrophytic Vegetation	
5				Dominance Test is	>50%
6				Prevalence Index is	s ≤3.0 <sup>1</sup>
7					ptations <sup>1</sup> (Provide supporting
8					s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	90	= Total Co	over	1 Toblematic Hydrol	priyile vegetation (Explain)
1				<sup>1</sup> Indicators of hydric soi	il and wetland hydrology must
2.				be present, unless distu	
		= Total Co	over	Hydrophytic	
% Bare Ground in Herb Stratum % Cover of				Vegetation Present? Yes	s No_ <u> </u>
Remarks:					
Thatch = 10%					

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
	7.5 Y/R 3/2	98	5 YR 4/6	2	C	M	silty clay				
	7.5 1711 372		3 111 1/0	- <del>-</del> -	. <u> </u>		sitty ciay				
-											
				<del>-</del>							
<u> </u>											
			=Reduced Matrix, C			ed Sand G		Location: PL=Pore Lining, M=Matrix.			
-		cable to all	LRRs, unless other		ea.)			ors for Problematic Hydric Soils <sup>3</sup> :			
Histosol (/	,		Sandy Red					m Muck (A9) (LRR C)			
Histic Epij Black Hist	pedon (A2)		Stripped M Loamy Mu		J (F1)			m Muck (A10) ( <b>LRR B</b> ) Juced Vertic (F18)			
	Sulfide (A4)		Loamy Gle					Parent Material (TF2)			
	Layers (A5) ( <b>LRR</b>	C)	Depleted N		(			er (Explain in Remarks)			
	k (A9) ( <b>LRR D</b> )	•	Redox Dar		(F6)			or (Explain in Homaino)			
	Below Dark Surface	ce (A11)	Depleted D		. ,						
	k Surface (A12)		Redox Dep				<sup>3</sup> Indicate	ors of hydrophytic vegetation and			
Sandy Mu	ucky Mineral (S1)		Vernal Poo	ols (F9)			wetla	nd hydrology must be present,			
	eyed Matrix (S4)						unles	s disturbed or problematic.			
Restrictive La	ayer (if present):										
Type: clay											
Type: clay Depth (inch							Hydric S	oil Present? Yes No✓			
,. <u> </u>							Hydric S	oil Present? Yes No _✓			
Depth (inch							Hydric S	oil Present? Yes No _ ✓			
Depth (inch	nes): 3						Hydric S	oil Present? Yes No _✓			
Depth (inches Remarks:	nes): 3	:					Hydric S	oil Present? Yes No _ ✓			
Depth (inch Remarks: YDROLOG Wetland Hydr	nes): 3		d; check all that app	lly)				oil Present? Yes No _✓			
Depth (inch Remarks: YDROLOG Wetland Hydr	GY rology Indicators ators (minimum of		d; check all that app								
Depth (inches Perimary Indication Surface Western Surface West	GY rology Indicators ators (minimum of			t (B11)				condary Indicators (2 or more required)			
Depth (inches Perimary Indication Surface Western Surface West	GY rology Indicators ators (minimum of Vater (A1) er Table (A2)		Salt Crus	t (B11) ist (B12)	es (B13)			condary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )			
Depth (inch Remarks: YDROLOG Wetland Hydr Primary Indica Surface W High Wate Saturation	GY rology Indicators ators (minimum of Vater (A1) er Table (A2)	one require	Salt Crus	t (B11) ist (B12) nvertebrate	. ,			condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)			
Depth (inch Remarks:  YDROLOG  Wetland Hydr  Primary Indica  Surface W  High Wate  Saturatior  Water Ma	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3)	one require	Salt Crus Biotic Cru Aquatic Ir Hydrogen	t (B11) ist (B12) nvertebrate	dor (C1)	Living Ro	Se	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)			
Depth (inch Remarks: YDROLOG Wetland Hydr Primary Indica Surface W High Water Saturatior Water Ma Sediment	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) urks (B1) (Nonrive	one require rine) onriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized	t (B11) ust (B12) nvertebrate n Sulfide O	dor (C1) eres along	-	<u>Se</u>	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)			
Depth (inch Remarks: YDROLOG Wetland Hydr Primary Indica Surface W High Wate Saturatior Water Ma Sediment Drift Depo	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) urks (B1) (Nonrive Deposits (B2) (No	one require rine) onriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	4)	<u>Se</u>	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)			
Depth (inch Remarks:  YDROLOG Wetland Hydr Primary Indica Surface W High Wate Saturatior Water Ma Sediment Drift Depo	rology Indicators ators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B2) (Nonrive posits (B3) (Nonrive posits (B3) (Nonrive	one require rine) onriverine) erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C ion in Tille	4)	<u>Se</u>	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Surface S Inundation	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No	one require rine) porriverine) erine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	ots (C3)	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
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Depth (inche Remarks:  YDROLOG Wetland Hydromany Indica Surface Wetland High Water Manus Sediment Drift Deposition Surface Sur	rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) urks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive Goil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations:	one require rine) onriverine) erine) Imagery (B	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire Thin Muc	t (B11) ust (B12) nvertebrate u Sulfide Or Rhizosphe of Reduce on Reducti k Surface (	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C	ots (C3)	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)			
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Depth (inche Remarks:  YDROLOG  Wetland Hydrom  Primary Indication  Surface Water Mater Mater Mater Sediment  Drift Depoder Surface Solution  Water-State State Observation  Water Table P	rology Indicators ators (minimum of Water (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B3) (Nonrive Dep	rine) ponriverine) erine) Imagery (B	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) nvertebrate s Sulfide O Rhizosphe of Reduce on Reducti k Surface ( cplain in Re	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C	ots (C3)	condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)			
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Project/Site: Sloughhouse Solar Energy Project	City/Co	ounty: Saci	ramento County	{	Sampling Date: _	11/11/2020
Applicant/Owner: D.E. Shaw Renewable Investments			State:	CA S	Sampling Point: _	173
Investigator(s): L. Burris and A. Sennet	Section	n, Townshi	ip, Range: <u>Township</u>	7N / Ran	ge 7E / Section	10
Landform (hillslope, terrace, etc.): hilltop	Local	relief (cond	cave, convex, none): Co	oncave	Slop	oe (%): 0
Subregion (LRR): Lat:	38.48058	3094	Long: <u>-121.18</u>	393413	Datur	n: WGS84
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent slop						
Are climatic / hydrologic conditions on the site typical for this time of						
Are Vegetation, Soil, or Hydrology significa			Are "Normal Circumst			' No
Are Vegetation, Soil, or Hydrology naturally			(If needed, explain an			
SUMMARY OF FINDINGS – Attach site map show						atures etc
		pinig po	int locations, trai	130013,	important re	
Hydrophytic Vegetation Present? Yes   ✓ No		Is the Sar	npled Area			
Hydric Soil Present?  Yes   ✓ No  Wetland Hydrology Present?  Yes   ✓ No  ———————————————————————————————————		within a V	Vetland? Y	es	No	•
Remarks:	<u> </u>					
Depression at top of hill. Some cowpunch and g	razina o	vidont	Associated foatu	ıro. C\A/	40	
Depression at top of fill. Some cowpunctional g	;iazilig e	viueiit.	Associated leatu	ie. 300	40	
VEGETATION II :						
VEGETATION – Use scientific names of plants.	luta Dami	inant Indic	cator   Dominance Te	204 W0 #lco	haati	
	olute Domi Over Spec					
1						(A)
2			Total Number	of Dominar	nt	
3						(B)
4			Percent of Don	ninant Spe	ecies	
Sapling/Shrub Stratum (Plot size:)	= Tota	al Cover	That Are OBL,	FACW, or	FAC: 10	0 (A/B)
1			Prevalence In	dex works	sheet:	
2.				over of:	Multiply	/ by:
3					x 1 =	
4					x 2 =	
5					x 3 =	
Herb Stratum (Plot size:)	= Tota	al Cover			x 4 = x 5 =	
1. Hordeum marinum 40	0 Y	′ FA	, .		X 5 =	
	0 Y	′ F <i>A</i>	AC Coldinin rotals		(^)	(D)
3					= B/A =	
4			Hydrophytic \	_		
5						
6					≤3.0° ations¹ (Provide⊹	aupporting
7					or on a separate	
8	0 - Tot	al Cover	Problemat	ic Hydroph	nytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)	= 1018	ai Covei				
1					and wetland hydr bed or problemat	
2					bed of problemat	10.
	= Tota	al Cover	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum % Cover of Bio	tic Crust	0	Present?	Yes	No	
Remarks:			•			

Depth (inches)	Matrix Color (moist)	%	Color (moist)	0/	Type <sup>1</sup>	Loc <sup>2</sup>	Toxtura	Domarka			
(inches)				%			<u>Texture</u>	Remarks			
)-4	7.5 YR 3/1	96	5 YR 4/6	_ 4	<u>C</u>	M	silty clay				
					-						
					-		-				
					<del>-</del>						
Type: C=Cor	ncentration, D=Dep	pletion, RM:	=Reduced Matrix, C	S=Covere	d or Coat	ed Sand G	rains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.			
lydric Soil In	dicators: (Appli	cable to all	LRRs, unless oth	erwise not	ted.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :			
Histosol (	A1)		Sandy Re	dox (S5)			1 cm N	luck (A9) ( <b>LRR C</b> )			
Histic Epi	pedon (A2)		Stripped N	Matrix (S6)			2 cm N	luck (A10) ( <b>LRR B</b> )			
Black His	` '			icky Minera			Reduce	ed Vertic (F18)			
	Sulfide (A4)			eyed Matrix				arent Material (TF2)			
	Layers (A5) (LRR	C)		Matrix (F3)			Other (	Explain in Remarks)			
	k (A9) (LRR D)	(/////		rk Surface	. ,						
	Below Dark Surfack Surface (A12)	ce (ATT)	Depleted I	Dark Surfa	, ,		3Indicators	of hydrophytic vegetation and			
	ucky Mineral (S1)		Vernal Po		(10)						
	eyed Matrix (S4)		vernari o	013 (1 3)			wetland hydrology must be present,				
	ayer (if present):						unless disturbed or problematic.				
Type: Cldy											
Type: clay							Hydric Soil	Present? Yes ✓ No			
Depth (inch							Hydric Soil	Present? Yes <u>√</u> No			
Depth (inch Remarks:	nes): <u>4</u>						Hydric Soil	Present? Yes <u>√</u> No			
Depth (inches Remarks:	nes): 4						Hydric Soil	Present? Yes <u>√</u> No			
Depth (inches Remarks:  YDROLOG	nes): 4										
Depth (inches Remarks:  YDROLOG	nes): 4		d; check all that ap	oly)				Present? Yes ✓ No			
Depth (inches Primary Indication Surface V	SY rology Indicators ators (minimum of a		Salt Crus	st (B11)			<u>Secon</u> W	dary Indicators (2 or more required) dater Marks (B1) ( <b>Riverine</b> )			
Depth (inches Primary Indication Depth (inches Primary Indication	SY rology Indicators		•	st (B11)			<u>Secon</u> W	dary Indicators (2 or more required)			
Depth (inches Primary Indication Surface V	GY rology Indicators ators (minimum of a Vater (A1) er Table (A2)		Salt Crus Biotic Cru Aquatic I	st (B11) ust (B12) nvertebrate	. ,		Secon W Se	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)			
Primary Indica Surface V High Water Mater Mater	rology Indicators ators (minimum of evater (A1) er Table (A2) in (A3) irks (B1) (Nonrive	one require	Salt Crus Biotic Cru Aquatic I Hydroge	st (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		Secon W So Do Do	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)			
Primary Indica Surface V High Water Saturation Water Ma	rology Indicators ators (minimum of a Vater (A1) er Table (A2) n (A3)	one require	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	-	Secon  — W — So — Do — Do ots (C3) — Do	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)			
Depth (inch Remarks:  YDROLOG Wetland Hydro Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of a Vater (A1) er Table (A2) in (A3) irks (B1) (Nonrive Deposits (B2) (No	one required rine) onriverine)	Salt Crus Biotic Crus Aquatic I Hydrogei Oxidized Presence	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	4)	Secon  — W  — Se  — De  — De  — ots (C3) — De  — C	dary Indicators (2 or more required) later Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)			
Depth (inch Remarks:  YDROLOG  Wetland Hydr Primary Indica  Surface V High Water Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of a Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No	one required rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic I Hydroge Oxidized Presence Recent I	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	edor (C1) eres along ed Iron (C ion in Tille	4)	Secon  W Social Display Displa	dary Indicators (2 or more required) Pater Marks (B1) (Riverine) Padiment Deposits (B2) (Riverine) Parift Deposits (B3) (Riverine) Parinage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Paturation Visible on Aerial Imagery (CS)			
Primary Indica Surface V High Water Ma Sediment Drift Depo	rology Indicators (minimum of a Vater (A1) (Nonrive Deposits (B2) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B3) (Nonrive Deposits (B4) (N	one required rine) onriverine) erine)	Salt Crus Biotic Cri Aquatic I Hydrogei Oxidized Presence Recent Ii	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)			
Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of exter (A1) er Table (A2) n (A3) rks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive doil Cracks (B6) n Visible on Aerial ained Leaves (B9)	one required rine) onriverine) erine)	Salt Crus Biotic Cri Aquatic I Hydrogei Oxidized Presence Recent Ii	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) Pater Marks (B1) (Riverine) Padiment Deposits (B2) (Riverine) Parift Deposits (B3) (Riverine) Parinage Patterns (B10) Pry-Season Water Table (C2) Prayfish Burrows (C8) Paturation Visible on Aerial Imagery (CS)			
Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo V Surface S Inundation Water-Sta	rology Indicators ators (minimum of exter (A1) er Table (A2) er (A3) erks (B1) (Nonrive Deposits (B2) (Norive soil Cracks (B6) en Visible on Aerial ained Leaves (B9) ations:	rine) onriverine) erine) Imagery (B	Salt Crus Biotic Crus Aquatic I Hydrogei Oxidized Presence Recent II Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)			
Primary Indication  Surface V High Water Mater M	rology Indicators ators (minimum of exter (A1) er Table (A2) in (A3) irks (B1) (Nonrive Deposits (B2) (Norive soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations:	rine) onriverine) erine) Imagery (B	Salt Crus Biotic Cri Aquatic I Hydrogei Oxidized Presence Recent Ii	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (C	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)			
Depth (inche Remarks:  YDROLOG  Wetland Hydromany Indicators  Surface V High Water Mater Sediment  Drift Deport ✓ Surface Sediment Mater-State Mater-State Water-State Water-State Mater-State Mater	rology Indicators ators (minimum of a Vater (A1) er Table (A2) n (A3) arks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations:	rine) porriverine) erine) Imagery (B	Salt Crus Biotic Crus Aquatic I Hydrogei Oxidized Presence Recent II Thin Muc	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W Secon  Di Cots (C3) Cots (C3) Secon Cots (C3) Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)			
Depth (inche Remarks:  YDROLOG Wetland Hyding Surface V High Water Saturation Water Man Sediment Drift Depo Surface S Inundation Water-Sta Field Observa Surface Water Water Table F	rology Indicators ators (minimum of a Vater (A1) er Table (A2) er (A3) er (B1) (Nonrive Deposits (B2) (Norive Deposits (B3) (Nonrive Depo	rine) priverine) erine) Imagery (B	Salt Crus Biotic Crus Aquatic I Hydrogei Oxidized Presencei Recent I Thin Muc Other (E:	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce on Reduct ck Surface explain in Re nches):	edor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) d Soils (Co	Secon  W So Do Cots (C3) Do Cots (C3) Si Do Cots (C3) Fo	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) nallow Aquitard (D3)			
Depth (inche Remarks:  YDROLOG  Wetland Hydromany Indicase Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta  Field Observation Water Table F Saturation Presidence Sequence Sequ	rology Indicators ators (minimum of a Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations: ar Present? are Present? allary fringe)	rine) porriverine) lmagery (B	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) d Soils (Co	Secon  W Social Secon  Colors (C3) Colors	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)			
Depth (inche Remarks:  YDROLOG  Wetland Hydromany Indicase Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta  Field Observation Water Table F Saturation Presidence Sequence Sequ	rology Indicators ators (minimum of a Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations: ar Present? are Present? allary fringe)	rine) porriverine) lmagery (B	Salt Crus Biotic Cr Aquatic I Hydrogei Oxidized Presence Recent II Other (E:  No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) d Soils (Co	Secon  W Social Secon  Colors (C3) Colors	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)			
Depth (inche Remarks:  YDROLOG Wetland Hyding Primary Indication  Surface V High Water Mater Surface Surface Water Table F Saturation Precincludes caping Describe Records	rology Indicators ators (minimum of a Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations: ar Present? are Present? allary fringe)	rine) porriverine) lmagery (B	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) d Soils (Co	Secon  W Social Secon  Colors (C3) Colors	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)			
Depth (inche Remarks:  YDROLOG  Wetland Hydromany Indicase Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta  Field Observation Water Table F Saturation Presidence Sequence Sequ	rology Indicators ators (minimum of a Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations: ar Present? are Present? allary fringe)	rine) porriverine) lmagery (B	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) d Soils (Co	Secon  W Social Secon  Colors (C3) Colors	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)			
Depth (inche Remarks:  YDROLOG Wetland Hydromany Indication Surface V High Water Saturation Water Ma Sediment Drift Depo V Surface S Inundation Water-Sta Field Observation Water Table F Saturation Pre (includes capic) Describe Reco	rology Indicators ators (minimum of a Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations: ar Present? are Present? allary fringe)	rine) porriverine) lmagery (B	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) d Soils (Co	Secon  W Social Secon  Colors (C3) Colors	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)			
Pepth (inche Remarks:  YDROLOG  Wetland Hydro  Primary Indica  Surface V  High Water  Saturation  Water-State  Field Observation  Water Table F  Saturation Presincludes capi  Describe Record	rology Indicators ators (minimum of a Vater (A1) er Table (A2) in (A3) arks (B1) (Nonrive Deposits (B2) (No posits (B3) (Nonrive soil Cracks (B6) in Visible on Aerial ained Leaves (B9) ations: ar Present? are Present? allary fringe)	rine) porriverine) lmagery (B	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E:  No ✓ Depth (i No ✓ Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct sk Surface xplain in Re nches):	dor (C1) eres along ed Iron (C ion in Tilla (C7) emarks)	4) d Soils (Co	Secon  W Social Secon  Colors (C3) Colors	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)			

Project/Site: Sloughhouse Solar Energy Project	c	City/County:	Sacramer	nto County	Sampling Date: 11/11/2	2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: <u>174</u>	
Investigator(s): L. Burris and A. Sennet	8	Section, To	wnship, Rar	nge: <u>Township 7N / Ra</u>	nge 7E / Section 10	
Landform (hillslope, terrace, etc.): hilltop		Local relief	(concave, c	convex, none): none	Slope (%):	0
Subregion (LRR):	_at: <u>38.4</u>	18058776		Long: -121.1892727	Datum: WGS8	4
Soil Map Unit Name: Bruella sandy loam, 2 to 5 percent s						
Are climatic / hydrologic conditions on the site typical for this tir						
Are Vegetation, Soil, or Hydrology sign					present? Yes No	
Are Vegetation, Soil, or Hydrology natu				eded, explain any answe		
			`			-4-
SUMMARY OF FINDINGS – Attach site map sh	owing	Sampiin	g point it	cations, transects	, important reatures,	etc.
Hydrophytic Vegetation Present? Yes No _		Is the	e Sampled	Area		
Hydric Soil Present? Yes No _	_		in a Wetlan		No ✓	
Wetland Hydrology Present? Yes No _	<u> </u>					
Remarks:						
Associated feature:SW 40						
<b>VEGETATION</b> – Use scientific names of plants.	ı					
		Dominant Species?		Dominance Test work		
1		Species?		Number of Dominant Sp That Are OBL, FACW, of	l e	۸)
2						1)
3				Total Number of Domin Species Across All Stra		3)
4						,
_		= Total Co	ver	Percent of Dominant Sp That Are OBL, FACW, of	or FAC: (A	4/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor	kshoot:	
1					Multiply by:	
2					x 1 =	
4					x 2 =	
5.					x 3 =	
_		= Total Co		FACU species	x 4 =	
Herb Stratum (Plot size: 5m x 5m )  1. Bromus hordeaceus	40	V	EACH	UPL species	x 5 =	
2. Hordeum marinum	40 10	Y N	FACU FAC	Column Totals:	(A) (	(B)
3. Festuca perennis	10	N	FAC	Prevalence Index	= B/A =	
4. Convolvulus arvensis	5	N	NL	Hydrophytic Vegetation		
5				Dominance Test is		
6				Prevalence Index is		
7					ptations <sup>1</sup> (Provide supporting	g
8					s or on a separate sheet)	
	65	= Total Co	ver	Problematic Hydrop	phytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	I and wetland hydrology mus	st
1				be present, unless distu		,
		= Total Co	ver	Hydrophytic		
				Vegetation	. No /	
	Blotic Cr	ust	<u></u>	Present? Yes	s No_ <u>√</u>	
Remarks:						
+ thatch						

Depth	Matrix		Redo	ox Features	1 0					
(inches)	Color (moist)	%	Color (moist)		/pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks			
0-2	7.5 Y/R 3/2	98	5 YR 4/6	2 <u>C</u>	M	silty clay				
	<u> </u>					. <u> </u>				
		_	-							
	<u>.</u> ,					<u> </u>				
	- ·		-			<u></u> - <u></u> -				
<sup>1</sup> Type: C=C	Concentration, D=De	pletion, RM	l=Reduced Matrix, C	S=Covered or (	Coated Sand G	Grains. <sup>2</sup> Location	on: PL=Pore Lining, M=Matrix.			
			I LRRs, unless othe				Problematic Hydric Soils <sup>3</sup> :			
Histoso	l (A1)		Sandy Red	lox (S5)		1 cm Muc	k (A9) ( <b>LRR C</b> )			
Histic E	pipedon (A2)		Stripped M	atrix (S6)		2 cm Muc	k (A10) ( <b>LRR B</b> )			
Black H	listic (A3)			cky Mineral (F1		Reduced	Vertic (F18)			
	en Sulfide (A4)			yed Matrix (F2)	)		nt Material (TF2)			
	ed Layers (A5) (LRR	C)	Depleted M			Other (Exp	plain in Remarks)			
	uck (A9) (LRR D)	(\( \) ( \)		k Surface (F6)	<b>7</b> \					
	ed Below Dark Surfa Park Surface (A12)	ce (A11)		Park Surface (Fi Pressions (F8)	7)	3Indicators of h	nydrophytic vegetation and			
	Mucky Mineral (S1)		Vernal Poo				Irology must be present,			
	Gleyed Matrix (S4)		vernari ee	no (1 0)						
	Layer (if present):					unless disturbed or problematic.				
Type: cla										
Depth (in	nches): 2					Hydric Soil Pre	esent? Yes No _✓			
Remarks:	,									
HYDROLC										
-	drology Indicators									
Primary Indi	icators (minimum of	one require	ed; check all that app	ly)		<u>Secondar</u>	ry Indicators (2 or more required)			
	Water (A1)		Salt Crust	,			er Marks (B1) ( <b>Riverine</b> )			
High W	ater Table (A2)		Biotic Cru	st (B12)		Sedir	ment Deposits (B2) (Riverine)			
Saturati	` ,			vertebrates (B	*		Deposits (B3) (Riverine)			
	Marks (B1) ( <b>Nonrive</b>		· · · · · · · · · · · · · · · · · · ·	Sulfide Odor (			nage Patterns (B10)			
	ent Deposits (B2) (N			Rhizospheres a	-		Season Water Table (C2)			
	eposits (B3) (Nonriv	erine)		of Reduced Iro			fish Burrows (C8)			
	Soil Cracks (B6)			on Reduction in	Tilled Soils (C		ration Visible on Aerial Imagery (C9)			
	tion Visible on Aeria		· —	k Surface (C7)			low Aquitard (D3)			
	Stained Leaves (B9)		Other (Ex	plain in Remarl	ks)	FAC-	-Neutral Test (D5)			
Field Obser			,							
	( D 10	Yes	No <u>✓</u> Depth (ir							
Surface Wa				chae).						
			No <u>✓</u> Depth (ir	ici ies).						
Surface War Water Table Saturation F	e Present? Present?	Yes	No <u>✓</u> Depth (ir No <u>✓</u> Depth (ir			land Hydrology P	resent? Yes No✓			
Surface War Water Table Saturation F (includes ca	e Present? Present? apillary fringe)	Yes Yes	No ✓ Depth (in	nches):	Wet		resent? Yes No			
Surface War Water Table Saturation F (includes ca	e Present? Present? apillary fringe)	Yes Yes		nches):	Wet		resent? Yes No _ ✓			
Surface War Water Table Saturation F (includes ca Describe Re	e Present? Present? apillary fringe)	Yes Yes	No ✓ Depth (in	nches):	Wet		resent? Yes No✓			
Surface War Water Table Saturation F (includes ca	e Present? Present? apillary fringe)	Yes Yes	No ✓ Depth (in	nches):	Wet		resent? Yes No✓			
Surface Wa Water Table Saturation F (includes ca Describe Re	e Present? Present? apillary fringe)	Yes Yes	No ✓ Depth (in	nches):	Wet		resent? Yes No _ ✓			
Surface War Water Table Saturation F (includes ca Describe Re	e Present? Present? apillary fringe)	Yes Yes	No ✓ Depth (in	nches):	Wet		resent? Yes No✓			
Surface War Water Table Saturation F (includes ca Describe Re	e Present? Present? apillary fringe)	Yes Yes	No ✓ Depth (in	nches):	Wet		resent? Yes No✓			

Project/Site: Sloughhouse Solar Energy Project	(	City/Coun	<sub>ty:</sub> Sacrame	nto County	_ Sampling Date: _	11/12/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point:	178
Investigator(s): A. Godinho and A. Sennett	:	Section, T	ownship, Ra	nge: Township 7N / Ra	ange 7E / Section	n 11
				convex, none): none		
Subregion (LRR): C	Lat: 38.4	1679346	7	Long: -121.179434	Datu	m: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrologys				"Normal Circumstances"		✓ No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site map						atures, etc.
Hydrophytic Vegetation Present? Yes N	lo ✓					
Hydric Soil Present? Yes N			the Sampled		No. /	
Wetland Hydrology Present? Yes N	_	Wit	thin a Wetlaı	na? res	No <u>√</u>	-
Remarks:						
Upland point to 162 (SW-41)						
VEGETATION – Use scientific names of plan	its.					
	Absolute		nt Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size:)			? Status	Number of Dominant S		
1				That Are OBL, FACW,	or FAC: U	(A)
2				Total Number of Domi		(B)
4				Species Across All Str		(D)
	0			Percent of Dominant S That Are OBL, FACW,		) (A/R)
Sapling/Shrub Stratum (Plot size:)						(112)
1				Prevalence Index wo		
2				Total % Cover of: OBL species		
3				FACW species		
5.				FAC species		
<u> </u>		= Total C	Cover	FACU species		
Herb Stratum (Plot size: 5m x 5m )				UPL species	x 5 =	
1. Elymus caput-medusae		Y	UPL	Column Totals:	(A)	(B)
2. Bromus hordeaceus			_ FACU	Prevalence Inde	x = B/A =	
3. Holocarpha virgata				Hydrophytic Vegetati		
4.       5.				Dominance Test is		
6.				Prevalence Index		
7.				Morphological Ada	aptations <sup>1</sup> (Provide	supporting
8.				1	ks or on a separate	,
		= Total C		Problematic Hydro	ophytic Vegetation	(Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric so	oil and wetland hyd	rology must
1				be present, unless dis		
2		= Total C		Hydrophytic		
				Vegetation		,
% Bare Ground in Herb Stratum 0	r of Biotic Ci	rust	0	Present? Yo	es No	<u>v</u>
Remarks:						

		to the depth	needed to document the indic	cator or confirm the a	bsence of indicators.)
Depth (inches)	Color (moist)	<u></u> %	Redox Features Color (moist) % Ty	/pe <sup>1</sup> Loc <sup>2</sup> Te	xture Remarks
0-2	10 YR 3/2	100	Color (moist) /0 1)		clay
<u>U-Z</u>	10 YR 3/2	100		SIILY	Clay
	-				
					<del></del> -
	-				
			Reduced Matrix, CS=Covered or		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
-		able to all L	RRs, unless otherwise noted.)		dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
Black His	pipedon (A2)		<ul><li>Stripped Matrix (S6)</li><li>Loamy Mucky Mineral (F1</li></ul>		2 cm Muck (A10) (LRR B)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Reduced Vertic (F18) Red Parent Material (TF2)
	l Layers (A5) ( <b>LRR</b>	C)	Depleted Matrix (F3)		Other (Explain in Remarks)
	ck (A9) ( <b>LRR D</b> )	-,	Redox Dark Surface (F6)		- Caroli (Explain in Normano)
	Below Dark Surfac	e (A11)	Depleted Dark Surface (F	7)	
	ark Surface (A12)		Redox Depressions (F8)		dicators of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pools (F9)	,	wetland hydrology must be present,
	leyed Matrix (S4)				unless disturbed or problematic.
	ayer (if present):				
Type: har			<u> </u>		
Depth (inc	ches): <u>2</u>		<u></u>	Hyd	Iric Soil Present? Yes No _✓
Remarks:					
HYDROLO	GY				
Wetland Hyd	drology Indicators:				
Primary Indic	ators (minimum of o	one required;	check all that apply)		Secondary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (B11)		Water Marks (B1) (Riverine)
High Wa	ter Table (A2)		Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)
Saturatio	on (A3)		Aquatic Invertebrates (B	13)	Drift Deposits (B3) (Riverine)
Water M	arks (B1) (Nonriver	rine)	Hydrogen Sulfide Odor (	C1)	Drainage Patterns (B10)
Sedimen	nt Deposits (B2) (No	nriverine)	Oxidized Rhizospheres a	along Living Roots (C3	) Dry-Season Water Table (C2)
Drift Dep	osits (B3) (Nonrive	rine)	Presence of Reduced Iro	on (C4)	Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial	Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Water-St	tained Leaves (B9)		Other (Explain in Remar	ks)	FAC-Neutral Test (D5)
Field Observ	vations:				
Surface Water	er Present? Y	'es No	o <u>√</u> Depth (inches):		
Water Table	Present? Y	es N	o Depth (inches):		
Saturation Pr			Depth (inches):		ydrology Present? Yes No✓
(includes cap	oillary fringe)				
Describe Red	corded Data (stream	n gauge, mon	itoring well, aerial photos, previous	us inspections), if avail	able:
Remarks:					

Project/Site: Sloughhouse Solar Energy Project	City/0	County:	Sacramen	to County	Sampling D	ate: <u>11/1</u> 2	2/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Po	oint:1	.79
Investigator(s): A. Godinho and A. Sennett	Secti	ion, Tov	vnship, Ran	ge: Township 7N / Ra	inge 7E / Se	ction 14	
Landform (hillslope, terrace, etc.): Terrace	Loca	al relief	(concave, c	onvex, none): Concave	j	_ Slope (%):	0
Subregion (LRR): Lat	: 38.4667	4573		Long: -121.1801196		Datum: WG	S84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slo							
Are climatic / hydrologic conditions on the site typical for this time							
Are Vegetation, Soil, or Hydrology signific				Normal Circumstances"		s 🗸 N	0
Are Vegetation, Soil, or Hydrology natural				eded, explain any answe		·	
SUMMARY OF FINDINGS – Attach site map show			`				c oto
SOMMANT OF FINDINGS - Attach site map show	willy sail	Tibiiiié	y point io	cations, transects	, illiportai		S, E.C.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled	Area			
Hydric Soil Present?  Yes No		withi	n a Wetlan	d? Yes	No	✓	
Wetland Hydrology Present? Yes ✓ No Remarks:							
Within UPL SW							
Associated feature: n/a							
·							
VEGETATION – Use scientific names of plants.							
	olute Dor Cover Spe			Dominance Test work			
1				Number of Dominant S That Are OBL, FACW,		1	(A)
2							,
3				Total Number of Domir Species Across All Stra		2	(B)
4				Percent of Dominant S	nacias		
Continue/Charle Charters (District	<u>0</u> = To	otal Cov	ver er	That Are OBL, FACW,		.5	(A/B)
Sapling/Shrub Stratum (Plot size:)  1			-	Prevalence Index wor	rksheet:		
2				Total % Cover of:		lultiply by:	
3					x 1 =		
4.				FACW species 10			_
5				FAC species <u>55</u>	x 3 =	165	_
	<u>0</u> = To	otal Cov	ver er	FACU species 30			_
Herb Stratum (Plot size: 5m x 5m )	50	Υ	EAC	UPL species 10			_
	30 30	Υ	FACU FACU	Column Totals:10	<u>JO</u> (A)	345	_ (B)
· -	<u> </u>	N	UPL	Prevalence Index	c = B/A =	3.4	
		N	FAC	Hydrophytic Vegetati			
	5	N	FACW	Dominance Test is	s >50%		
6				Prevalence Index			
7				Morphological Ada			
8				data in Remark Problematic Hydro			
Woody Vine Stratum (Plot size:)	<u>100</u> = To	otal Cov	er er	I Toblematic Hydro	priytic vegeta	ation (Explai	II 1 <i>)</i>
1				<sup>1</sup> Indicators of hydric so	il and wetland	d hydrology r	nust
2				be present, unless dist			
	0 = To		er er	Hydrophytic			
% Bare Ground in Herb Stratum0 % Cover of Bir				Vegetation Present? Ye	es N	do √	
Remarks:							

		to the depth	needed to document the ir		onfirm the abse	ence of indicato	ers.)	
Depth (inches)	Matrix Color (moist)	<u></u> %	Redox Features Color (moist) %	Type <sup>1</sup> Lo	oc² Textu	re	Remarks	
			Coloi (Illoist) /6	туре со	<u> </u>	· ·	Nemarks	
0-3	10 YR 3/2	100			Silty cla	<u> </u>		
		. ————						
		<del></del>	<del></del> -		<del></del>	<u> </u>		
	-							
			educed Matrix, CS=Covered				Pore Lining, M=Ma	
-		able to all LF	RRs, unless otherwise note	d.)			matic Hydric Soils	s":
Histosol	` '		Sandy Redox (S5)			cm Muck (A9) (L	,	
	pipedon (A2)		Stripped Matrix (S6)	<b>(</b> [4)		cm Muck (A10) (		
	istic (A3) en Sulfide (A4)		<ul><li>Loamy Mucky Mineral</li><li>Loamy Gleyed Matrix</li></ul>			educed Vertic (F ed Parent Materi	,	
	d Layers (A5) ( <b>LRR</b> (	C)	Depleted Matrix (F3)	(1 <i>∠)</i>		ther (Explain in F	' '	
	uck (A9) ( <b>LRR D</b> )	<del>-</del> ,	Redox Dark Surface (I	<del>-</del> 6)		or (Explain III I	tomarkoj	
	d Below Dark Surfac	e (A11)	Depleted Dark Surface	,				
	ark Surface (A12)	. ,	Redox Depressions (F		<sup>3</sup> Indica	ators of hydrophy	tic vegetation and	
Sandy N	Mucky Mineral (S1)		Vernal Pools (F9)		wet	land hydrology m	nust be present,	
	Gleyed Matrix (S4)				unle	ess disturbed or p	problematic.	
	Layer (if present):							
Type: <u>cla</u>	ay pan		_					
Depth (in	ches): <u>3</u>		<u> </u>		Hydric	Soil Present?	Yes No	o <u> </u>
Remarks:					•			
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of c	one required; o	check all that apply)		<u>S</u>	Secondary Indica	tors (2 or more req	uired)
Surface	Water (A1)		Salt Crust (B11)		_	Water Marks	(B1) (Riverine)	
High Wa	ater Table (A2)		Biotic Crust (B12)		_	Sediment De	posits (B2) (Riveri	ne)
Saturati	on (A3)		Aquatic Invertebrates	(B13)	_	Drift Deposits	(B3) (Riverine)	
Water M	larks (B1) (Nonriver	ine)	Hydrogen Sulfide Od	or (C1)	_	Drainage Pat	terns (B10)	
Sedime	nt Deposits (B2) (No	nriverine)	Oxidized Rhizospher	es along Livin	g Roots (C3) _	Dry-Season \	Nater Table (C2)	
Drift De	posits (B3) (Nonrive	rine)	Presence of Reduced	d Iron (C4)	_	Crayfish Burr	ows (C8)	
✓ Surface	Soil Cracks (B6)		Recent Iron Reduction	n in Tilled Soi	ils (C6) _	Saturation Vi	sible on Aerial Ima	gery (C9)
Inundati	on Visible on Aerial	Imagery (B7)	Thin Muck Surface (0	27)	_	Shallow Aqui	tard (D3)	
Water-S	Stained Leaves (B9)		Other (Explain in Rer	narks)	_	FAC-Neutral	Test (D5)	
Field Obser	vations:							
Surface Wat			Depth (inches):					
Water Table	Present? Y	'es No	Depth (inches):					
Saturation P		'es No	Depth (inches):		Wetland Hydr	ology Present?	Yes <u>√</u> N	o
	pillary fringe)		toring well, aerial photos, pre		ione) if availabl	0.		
Describe Re	corded Data (stream	i gauge, moni	toring well, aerial priotos, pre	vious inspecti	ioris), ii avallabi	e.		
Dom:I								
Remarks:								

Project/Site: Sloughhouse Solar Energy Project		City/Count	<sub>ty:</sub> Sacrame	nto County	_ Sampling Date: _	11/12/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point:	180
Investigator(s): A. Godinho and A. Sennett		Section, T	ownship, Ra	nge: Township 7N / R	ange 7E / Sectior	n 14
Landform (hillslope, terrace, etc.):		Local relie	ef (concave,	convex, none):	Slo	pe (%):
Subregion (LRR):	Lat: 38.4	4664792		Long: -121.1801762	Datu	m: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 3						
Are climatic / hydrologic conditions on the site typical for the						
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"		✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site map				ocations, transect	s, important fe	atures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes  Yes	No <u>√</u>		the Sampled		No <u></u> ✓	-
Remarks: Associated feature: VP-07						
VEGETATION – Use scientific names of pla	nts.					
Tree Stratum (Plot size:) 1		Species'	nt Indicator Status	Dominance Test wor Number of Dominant S That Are OBL, FACW	Species	(A)
2				Total Number of Domi Species Across All Str	nant	(B)
4				Percent of Dominant S That Are OBL, FACW	Species	(A/B)
Sapling/Shrub Stratum (Plot size:)						( , , )
1				Prevalence Index wo  Total % Cover of:		v bv
2.				OBL species		
3				FACW species		
5.			<del>-</del>	FAC species		
<u> </u>		= Total C	over	FACU species		
Herb Stratum (Plot size: 5m x 5m )		-		UPL species		
1. Elymus caput-medusae		Y	UPL	Column Totals:	(A)	(B)
2. Bromus hordeaceus			<u>FAC</u>	December of Lordon	D/A /	75
3. Holocarpha virgata					x = B/A = 4	75
4				Hydrophytic Vegetat  Dominance Test i		
5				Prevalence Index		
6					aptations <sup>1</sup> (Provide	supporting
7				data in Remar	ks or on a separate	sheet)
8		= Total C		Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:) 1				<sup>1</sup> Indicators of hydric so be present, unless dis		
2						
% Bare Ground in Herb Stratum0		= Total C	over 0	Hydrophytic Vegetation Present? Y	es No	✓
Remarks:				ı		

Profile Desc	cription: (Descr	ibe to the deptl	n needed to docu	ment the inc	dicator or c	onfirm	the absence of indica	tors.)
Depth	Matri			x Features	<b>-</b> 1 -		<b>-</b> .	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup> L	oc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/2	100					Silty clay	
<del></del>								
	-							
		_	Reduced Matrix, C			and Gra		=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Ap	olicable to all L	RRs, unless other	rwise noted	l.)		Indicators for Probl	ematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck (A9)	(LRR C)
-	pipedon (A2)		Stripped M				2 cm Muck (A10	, ,
Black Hi	istic (A3)			cky Mineral (I			Reduced Vertic	
Hydroge	en Sulfide (A4)			yed Matrix (F	-2)		Red Parent Mate	
	d Layers (A5) ( <b>LF</b>	RR C)	Depleted M	, ,			Other (Explain in	n Remarks)
_	uck (A9) ( <b>LRR D</b> )			k Surface (F6	,			
-	d Below Dark Sui			ark Surface	, ,		3	
	ark Surface (A12)			ressions (F8	5)		<sup>3</sup> Indicators of hydrop	
	Mucky Mineral (S		Vernal Poo	ls (F9)			wetland hydrology	•
	Bleyed Matrix (S4					1	unless disturbed o	r problematic.
	Layer (if present	:):						
Type: ha								,
Depth (in	ches): <u>2</u>		<u></u>				Hydric Soil Present?	Yes No <u>√</u>
Remarks:								
LIVEROLO	OV							
HYDROLO								
l -	drology Indicate							
	•	of one required;	check all that app	y)			Secondary Indic	cators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Water Mark	ss (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Sediment D	Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Ir	vertebrates (	(B13)		Drift Depos	its (B3) (Riverine)
Water M	larks (B1) ( <b>Nonri</b>	verine)	Hydrogen	Sulfide Odo	r (C1)		Drainage P	atterns (B10)
Sedimer	nt Deposits (B2) (	Nonriverine)	Oxidized	Rhizospheres	s along Livii	ng Roots	s (C3) Dry-Seasor	n Water Table (C2)
Drift Dep	posits (B3) (Nonr	iverine)	Presence	of Reduced	Iron (C4)		Crayfish Bu	ırrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	in Tilled So	oils (C6)	Saturation	Visible on Aerial Imagery (C9)
Inundati	on Visible on Aer	ial Imagery (B7)	Thin Mucl	Surface (C7	7)		Shallow Aq	uitard (D3)
	stained Leaves (B		Other (Ex				FAC-Neutra	
Field Obser				'	,		<u> </u>	
Surface Wat		Yes N	o ✓ Depth (ir	ches).				
Water Table		<u></u>						
			o <u>√</u> Depth (ir					
Saturation P		Yes N	o <u>✓</u> Depth (ir	ches):		Wetlar	nd Hydrology Present	? Yes No
(includes car Describe Re		eam gauge, mor	nitoring well, aerial	photos previ	ious inspec	tions), if	available:	
Booon Bo Tto	oordod Data (otre	am gaago, moi	moning won, donar	priotoo, prov	iodo mopoo	,,	avanabio.	
Dorest								
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City	/County:	Sacramer	nto County	_ Sampling Date: _	11/12/2020
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	_ Sampling Point: _	181
Investigator(s): A. Godinho and A. Sennett	Sec	tion, Tow	nship, Rar	nge: Township 7N / R	ange 7E / Section	14
Landform (hillslope, terrace, etc.):	Loc	al relief (	concave, c	convex, none): Concav	e Slop	oe (%):0
Subregion (LRR): L	at: 38.465	65381		Long: -121.1807381	Datur	n: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s	lopes			NWI classif	ication: n/a	
Are climatic / hydrologic conditions on the site typical for this tim						
Are Vegetation, Soil, or Hydrology signi	ficantly dist	urbed?	Are "I	Normal Circumstances"	present? Yes	<u>′</u> No
Are Vegetation, Soil, or Hydrology nature	rally probler	natic?	(If ne	eded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map sho	owing sa	mpling	point lo	ocations, transect	s, important fea	atures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes  ✓ No  Yes  ✓ No  No  Remarks:			Sampled		/ No	
Associated feautre: P-02 Within pond 02 terrace						
VEGETATION – Use scientific names of plants.						
·	Cover Sp		Status	Dominance Test wor Number of Dominant S That Are OBL, FACW	Species	(A)
2				Total Number of Domi Species Across All Str		(B)
4	0 = T			Percent of Dominant S		0 (4(5)
Sapling/Shrub Stratum (Plot size:)		otal Cov	CI	That Are OBL, FACW	, or FAC:10	<u>U</u> (A/B)
1				Prevalence Index wo		
2				Total % Cover of:		
3				OBL species		
4				FACW species		
5				FAC species		
Herb Stratum (Plot size: 1m x 1m )	<u> </u>	otal Cov	er	UPL species		
1. Plagiobothrys bracteatus?	25	Υ	FACW	Column Totals:		
2. Rumex crispus	10	N	FAC	Column Totals.	(^)	(D)
3. Eleocharis macrostachya	25	Υ	OBL	Prevalence Inde	x = B/A =	
4				Hydrophytic Vegetat	ion Indicators:	
5				✓ Dominance Test i		
6				Prevalence Index		
7					aptations <sup>1</sup> (Provide : ks or on a separate	
8				Problematic Hydro		,
Woody Vine Stratum (Plot size:)	60 = T	otal Cov	er		opyo rogetation	(=7,513)
1				<sup>1</sup> Indicators of hydric so be present, unless dis		
2	0 = T			Hydrophytic		
% Bare Ground in Herb Stratum 0  % Cover of	<del></del>			Vegetation	es <b>√</b> No	
Remarks:						
Margin fes per.; low point= barren w/ crisch.						

Depth	cription: (Describe Matrix	to the dep		ox Feature		or commi	ii tile abser	ice of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/2	85	7.5 YR 4/6	15	С	PL/M	Silty clay	,
				_	-			
				_				
				_	-			
				_				
	Concentration, D=Dep					ed Sand G		Location: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	cable to all			ied.)			ors for Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Red					m Muck (A9) (LRR C)
	pipedon (A2) listic (A3)		Stripped M Loamy Mu	, ,	J (E1)			m Muck (A10) (LRR B)
	en Sulfide (A4)		Loamy Gle					duced Vertic (F18) d Parent Material (TF2)
	ed Layers (A5) (LRR	C)	Depleted N					ner (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	•,	✓ Redox Dai				•	(2/plant in tername)
	ed Below Dark Surfac	ce (A11)	Depleted [		. ,			
Thick D	ark Surface (A12)		Redox Dep	ressions	(F8)		3Indicate	ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)			wetla	nd hydrology must be present,
	Gleyed Matrix (S4)						unles	ss disturbed or problematic.
	Layer (if present):							
Type: <u>ha</u>			<del></del>					
Depth (ir	nches): <u>4</u>						Hydric S	Soil Present? Yes No
Remarks:								
İ								
HYDROLO	OGY							
Wetland Hy	drology Indicators	:						
-	icators (minimum of		d check all that app	lv)			Se	econdary Indicators (2 or more required)
	Water (A1)	ono roquiro	Salt Crus	•				Water Marks (B1) (Riverine)
	ater Table (A2)		✓ Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
Saturat	` '		Aquatic II	` '	es (B13)			Drift Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydroger					Drainage Patterns (B10)
	ent Deposits (B2) (No		· · · · ·			Living Ro		Dry-Season Water Table (C2)
	posits (B3) (Nonrive		Presence		_	_		Crayfish Burrows (C8)
	Soil Cracks (B6)		Recent Ir					Saturation Visible on Aerial Imagery (C9)
·	ion Visible on Aerial	Imagery (B				a coo (c.		Shallow Aquitard (D3)
	Stained Leaves (B9)	magory (D	Other (E)		` '			FAC-Neutral Test (D5)
Field Obse								
		/as	No <u>✓</u> Depth (ii	nches).				
Water Table			No <u>✓</u> Depth (ii No <u>✓</u> Depth (ii					
							ا مساما ا اسما	Jamus Bracamat 2. Mag. / No.
Saturation F (includes ca	resent? pillary fringe)	res	No <u>✓</u> Depth (ii	ncnes):		weti	iana Hyaroi	logy Present? Yes No
	ecorded Data (strean	n gauge, mo	onitoring well, aerial	photos, p	revious ins	spections),	if available:	
Remarks:								
-								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date: 11/12/2						
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA	Sampling Point: 182				
Investigator(s): A. Godinho and A. Sennett	Section, Township, Ra	ange: Township 7N / Ra	nge 7E / Section 14				
Landform (hillslope, terrace, etc.):	Local relief (concave,	convex, none):	Slope (%):				
Subregion (LRR): Lat: 3							
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slope							
Are climatic / hydrologic conditions on the site typical for this time of							
Are Vegetation, Soil, or Hydrology significar			present? Yes No				
Are Vegetation, Soil, or Hydrology naturally		eeded, explain any answe					
SUMMARY OF FINDINGS – Attach site map showi		ocations, transects	, important leatures, etc.				
Hydrophytic Vegetation Present? Yes No✓		d Area					
Hydric Soil Present? Yes No✓	within a Wetla		No <u>√</u>				
Wetland Hydrology Present? Yes No✓	_						
Remarks:							
Associated feautre: P-02							
VEGETATION – Use scientific names of plants.							
	te Dominant Indicator	Dominance Test work	sheet:				
, , , , , , , , , , , , , , , , , , , ,	er Species? Status	Number of Dominant Sport That Are OBL, FACW, or					
1							
3		Total Number of Domin Species Across All Stra					
4.							
0	= Total Cover	Percent of Dominant Sp That Are OBL, FACW,	or FAC: (A/B)				
Sapling/Shrub Stratum (Plot size:)		Prevalence Index wor					
1			Multiply by:				
2			x 1 =				
4			x 2 =				
5			x 3 =				
0	= Total Cover	FACU species	x 4 =				
Herb Stratum (Plot size: 5m x 5m )		UPL species	x 5 =				
1. Elymus caput-medusae 50		Column Totals:	(A) (B)				
	Y <u>FACU</u> Y UPL	Prevalence Index	= B/A =				
· -		Hydrophytic Vegetation					
4		Dominance Test is					
6		Prevalence Index is					
7		Morphological Ada	ptations <sup>1</sup> (Provide supporting				
8			s or on a separate sheet)				
100	= Total Cover	Problematic Hydrol	phytic Vegetation <sup>1</sup> (Explain)				
Woody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric soi	l and wetland hydrology must				
1		be present, unless distu					
2	= Total Cover	Hydrophytic					
		Vegetation	N /				
% Bare Ground in Herb Stratum 0	C Crust	Present? Ye	s No				
Remarks:							

Profile Desc	cription: (Descr	ibe to the deptl	n needed to docu	ment the inc	dicator or c	onfirm	the absence of indica	tors.)
Depth	Matri			x Features	<b>-</b> 1 -		<b>-</b> .	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup> L	oc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/2	100					Silty clay	
		<del></del>						
<del></del>								
	-							
		_	Reduced Matrix, C			and Gra		=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Ap	olicable to all L	RRs, unless other	rwise noted	l.)		Indicators for Probl	ematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck (A9)	(LRR C)
-	pipedon (A2)		Stripped M				2 cm Muck (A10	, ,
Black Hi	istic (A3)			cky Mineral (I			Reduced Vertic	
Hydroge	en Sulfide (A4)			yed Matrix (F	-2)		Red Parent Mate	
	d Layers (A5) ( <b>LF</b>	RR C)	Depleted M	, ,			Other (Explain in	n Remarks)
_	uck (A9) ( <b>LRR D</b> )			k Surface (F6	,			
-	d Below Dark Sui			ark Surface	, ,		3	
	ark Surface (A12)			ressions (F8	5)		<sup>3</sup> Indicators of hydrop	
	Mucky Mineral (S		Vernal Poo	ls (F9)			wetland hydrology	•
	Bleyed Matrix (S4					1	unless disturbed o	r problematic.
	Layer (if present	:):						
Type: ha								,
Depth (in	ches): <u>2</u>		<u></u>				Hydric Soil Present?	Yes No <u>√</u>
Remarks:								
LIVEROLO	OV							
HYDROLO								
l -	drology Indicate							
	•	of one required;	check all that app	y)			Secondary Indic	cators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Water Mark	ss (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Sediment D	Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Ir	vertebrates (	(B13)		Drift Depos	its (B3) (Riverine)
Water M	larks (B1) ( <b>Nonri</b>	verine)	Hydrogen	Sulfide Odo	r (C1)		Drainage P	atterns (B10)
Sedimer	nt Deposits (B2) (	Nonriverine)	Oxidized	Rhizospheres	s along Livii	ng Roots	s (C3) Dry-Seasor	n Water Table (C2)
Drift Dep	posits (B3) (Nonr	iverine)	Presence	of Reduced	Iron (C4)		Crayfish Bu	ırrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	in Tilled So	oils (C6)	Saturation	Visible on Aerial Imagery (C9)
Inundati	on Visible on Aer	ial Imagery (B7)	Thin Mucl	Surface (C7	7)		Shallow Aq	uitard (D3)
	stained Leaves (B		Other (Ex				FAC-Neutra	
Field Obser				'	,		<u> </u>	
Surface Wat		Yes N	o ✓ Depth (ir	ches).				
Water Table		<u></u>						
			o <u>√</u> Depth (ir					
Saturation P		Yes N	o <u>✓</u> Depth (ir	ches):		Wetlar	nd Hydrology Present	? Yes No
(includes car Describe Re		eam gauge, mor	nitoring well, aerial	photos previ	ious inspec	tions), if	available:	
Booon Bo Tto	oordod Data (otre	am gaago, moi	moning won, donar	priotoo, prov	iodo mopoo	,,	avanabio.	
Dorest								
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento County Sampling Date:11/12						
Applicant/Owner: D.E. Shaw Renewable Investments				State: CA	Sampling Point: 183		
Investigator(s): A. Godinho and A. Sennett	S	Section, Tov	vnship, Ra	<sub>nge:</sub> Township 7N / Rai	nge 7E / Section 14		
Landform (hillslope, terrace, etc.): <u>Depression</u>						)	
Subregion (LRR): L	at: 38.4	6531133		Long: -121.180884	Datum: WGS84		
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s				-	ation: n/a		
Are climatic / hydrologic conditions on the site typical for this tin							
Are Vegetation, Soil, or Hydrology signi					resent? Yes No		
Are Vegetation, Soil, or Hydrology natu				eeded, explain any answei			
SUMMARY OF FINDINGS – Attach site map she						c.	
Hydrophytic Vegetation Present? Yes   Hydric Soil Present? Yes   ✓ No   No   No   No   No   No   No		Is the	Sampled	Area	<u> </u>		
Wetland Hydrology Present? Yes   ✓ No   Remarks:		withi	n a Wetlar	nd? Yes <u>√</u>	No		
Associated feautre: VP-08 Adjacent to Pond 02.							
VEGETATION – Use scientific names of plants.							
		Dominant		Dominance Test works	sheet:		
		Species?		Number of Dominant Sp That Are OBL, FACW, of	pecies and a graph of the second of the seco		
1							
3.				Total Number of Domina Species Across All Stra			
4				Percent of Dominant Sp			
Cooling/Chaub Ctrotum /Dlot circu	0	= Total Cov	er		or FAC:100 (A/B	3)	
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index worl	sheet:		
2				Total % Cover of:	Multiply by:		
3.					x 1 =		
4.				FACW species	x 2 =		
5				FAC species	x 3 =		
	0	= Total Cov	er	FACU species	x 4 =		
Herb Stratum (Plot size: 5m x 5m )	25	V	EAC	UPL species	x 5 =		
1. Spergularia rubra	25	<u>Ү</u>	FAC	Column Totals:	(A) (B)	)	
Plagiobothrys bracteatus     Eryngium castrense	15 15	<u> </u>	FACW OBL	Prevalence Index	= B/A =		
4 Facture november	10	N		Hydrophytic Vegetation			
Festuca perennis     Bromus hordeaceus		N	<u>FAC</u> FAC	✓ Dominance Test is			
Bromus nordeaceus     Eleocharis macrostachya			OBL	Prevalence Index is			
7					otations <sup>1</sup> (Provide supporting		
8				data in Remarks	s or on a separate sheet)		
		= Total Cov	er	Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)		
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric soil be present, unless distu	and wetland hydrology must		
2				, ,	Thed of problematic.		
_		= Total Cov		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum	Biotic Cru	ust 0		Present? Yes	s No		
Remarks:							

		to the de	pth needed to docu	ment the		or confirr	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5 YR 3/2	75	5 YR 4/6	25	С	M	Silty clay	
					<u> </u>			
			-					
				_	-			
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RM	l=Reduced Matrix, C	S=Covere	d or Coat	ed Sand G	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to al	I LRRs, unless other	erwise not	ted.)		Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red	. ,			1 cm Mu	uck (A9) ( <b>LRR C</b> )
	oipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mu					d Vertic (F18)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b>	C)	Loamy Gle Depleted N	-				rent Material (TF2) Explain in Remarks)
	uck (A9) (LRR D)	<b>C</b> )	✓ Redox Dar				Other (E	Aplain in Nemarks)
	d Below Dark Surfac	ce (A11)	Depleted D		` '			
Thick Da	ark Surface (A12)		Redox Dep	oressions (	(F8)		<sup>3</sup> Indicators o	f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				ydrology must be present,
	Bleyed Matrix (S4)						unless dis	turbed or problematic.
Type: ha	Layer (if present):							
,, <u> </u>							United the Control	
Depth (in	cnes): 4						Hydric Soil P	Present? Yes No
Remarks:								
HYDROLO								
_	drology Indicators:							
Primary India	cators (minimum of o	one require	ed; check all that app	oly)			Second	lary Indicators (2 or more required)
	Water (A1)		Salt Crus	, ,				ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru					diment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic Ir		` ,		· <del></del>	ft Deposits (B3) (Riverine)
·	larks (B1) (Nonrive	,	Hydroger			5	· <del></del>	ainage Patterns (B10)
	nt Deposits (B2) (No				_	_		/-Season Water Table (C2)
	posits (B3) ( <b>Nonrive</b> Soil Cracks (B6)	erine)	Presence			4) ed Soils (C		ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (F	·	k Surface		iu Solis (Ci	· —	allow Aquitard (D3)
	stained Leaves (B9)	iiiiageiy (L	· —	plain in Re	. ,		<del></del>	C-Neutral Test (D5)
Field Obser	· /		00101 (22	. Piairi III T	omanto)			0 Noutai 1651 (20)
Surface Wat		/es	No <u>✓</u> Depth (ir	nches).				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (in			l l	and Hydrology	Present? Yes √ No
(includes cap	oillary fringe)		No <u>▼</u> Deptii (ii	iches)		_   Well	and Hydrology	Fresent: res v NO
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, p	revious in:	spections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	C	City/County: Sacramento County Sampling Date: 11/12/202							
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA Sa	ampling Poin	t:1	L84	
Investigator(s): A. Godinho and A. Sennett	S	ection, To	wnship, Rar	nge: Township	7N / Rang	e 7E / Secti	on 15		
Landform (hillslope, terrace, etc.): <u>Drainage</u>								: 5	
Subregion (LRR): C	at: 38.46	38.46602617 Long: -121.1888601 Datum							
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s									
Are climatic / hydrologic conditions on the site typical for this tim									
Are Vegetation, Soil, or Hydrology signi				Normal Circumst			✓ N	lo	
Are Vegetation, Soil, or Hydrology natur				eded, explain an					
SUMMARY OF FINDINGS – Attach site map sho								s, etc.	
Lhidraphytia Vagatatian Present?	./			·	· ·				
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	_		e Sampled						
Wetland Hydrology Present? Yes No		with	in a Wetlan	id? Y	es	_ No <u> </u>			
Remarks:									
Upland plants, no change in vegetation. See p	hotos	from bi	ranchiop	od dry seaso	n surve	<b>/</b> .			
VEGETATION – Use scientific names of plants.									
<u> </u>		Dominant	Indicator	Dominance Te	et workeh	eet:			
			Status	Number of Don					
1				That Are OBL,			0	(A)	
2				Total Number of	of Dominant				
3				Species Across	All Strata:		2	(B)	
4				Percent of Dom					
Sapling/Shrub Stratum (Plot size:)	=	= Total Co	ver	That Are OBL,	FACW, or I	FAC:	0	(A/B)	
1				Prevalence Inc	dex worksl	neet:			
2				Total % Co					
3				OBL species		x 1 =			
4				FACW species				_	
5				FAC species FACU species		x 3 =		_	
Herb Stratum (Plot size: 5m x 5m )	=	= Total Co	ver	UPL species				_	
1. Holocarpha virgata	20	Υ	UPL	Column Totals:			425	— (B)	
2. Bromus hordeaceus		Υ	FACU					(D)	
3. Lactuca serriola		N	UPL			B/A =	4.25		
4				Hydrophytic V	_				
5				Dominance					
6				Prevalence		3.0° tions¹ (Provid	do ourono	rtina	
7				Morpholog data in	Remarks o	r on a separa	ite suppo ite sheet)	rung	
8		= Total Co		Problemati	c Hydrophy	rtic Vegetatio	n¹ (Expla	iin)	
Woody Vine Stratum (Plot size:)	100 =	= Total Co	vei						
1				<sup>1</sup> Indicators of h				must	
2				be present, unl	ess disturb	ea or probler	natic.		
_	0 =	= Total Co	ver	Hydrophytic Vegetation					
% Bare Ground in Herb Stratum0 % Cover of I	Biotic Cru	ıst <u>C</u>	)	Present?	Yes_	No	✓		
Remarks:				<u>I</u>					

Profile Desc	cription: (Descr	ibe to the deptl	n needed to docu	ment the in	dicator or	confirm	the absence of indi	icators.)	
Depth	Matri			x Features	<b>-</b> 1	. 2	<b>-</b>		
(inches)	Color (moist)		Color (moist)	<u> %</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-2	10 YR 3/2	100					Silty clay		
				,					
	-								
<del></del>									
	-								
		_	Reduced Matrix, C			Sand Gra		PL=Pore Lining, N	
Hydric Soil	Indicators: (Ap	olicable to all L	RRs, unless othe	rwise note	d.)		Indicators for Pro	oblematic Hydric	Soils³:
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck (A	(49) ( <b>LRR C</b> )	
-	pipedon (A2)		Stripped M				2 cm Muck (A	, ,	
Black Hi	istic (A3)			cky Mineral			Reduced Ver		
	en Sulfide (A4)			yed Matrix (	(F2)		Red Parent M		
	d Layers (A5) ( <b>LF</b>	RR C)	Depleted M	. ,			Other (Explain	n in Remarks)	
_	uck (A9) ( <b>LRR D</b> )			k Surface (F	,				
-	d Below Dark Sur			ark Surface	. ,		31 11 1 11		
	ark Surface (A12)			ressions (F	8)			rophytic vegetation	
	Mucky Mineral (Sa		Vernal Poo	is (F9)			•	ogy must be preser d or problematic.	11,
	Gleyed Matrix (S4 Layer (if present						T Uniess disturbe	d of problematic.	
Type: ha		.,.							
, , <u> </u>								10 V	/
Depth (in	ches): <u>Z</u>		<del></del>				Hydric Soil Prese	nt? Yes	No <u>√</u>
Remarks:									
HYDROLO	GY								
	drology Indicate	ve:							
Ī			ah a ah all dhad ann	L A			0		
	•	of one required;	check all that app					ndicators (2 or more	
Surface			Salt Crust					larks (B1) (Riverin	
	ater Table (A2)		Biotic Cru					nt Deposits (B2) (R	
Saturation			Aquatic In					oosits (B3) (Riverin	ne)
	larks (B1) ( <b>Nonri</b>		Hydrogen					e Patterns (B10)	
Sedimer	nt Deposits (B2) (	(Nonriverine)	· · · · · · · · · · · · · · · · · · ·		-	ing Roo	ts (C3) Dry-Sea	son Water Table (0	C2)
Drift Dep	posits (B3) ( <b>Nonr</b>	iverine)	Presence		, ,			Burrows (C8)	
Surface	Soil Cracks (B6)		Recent Iro	n Reductio	n in Tilled S	Soils (C6)	s) <u>v</u> Saturation	on Visible on Aeria	Imagery (C9)
Inundati	on Visible on Aer	ial Imagery (B7)	Thin Mucl	c Surface (C	27)		Shallow	Aquitard (D3)	
Water-S	stained Leaves (B	9)	Other (Ex	plain in Ren	narks)		FAC-Ne	utral Test (D5)	
Field Obser	vations:								
Surface Wat	er Present?	Yes N	o _ ✓ _ Depth (in	ches):					
Water Table	Present?	Yes N	o ✓ Depth (in	ches):					
Saturation P	resent?		o ✓ Depth (in			Wetla	and Hydrology Pres	ent? Yes	No √
(includes cap		1631	o <u> </u>			VVCtic	and riyurology i res		
		am gauge, mor	nitoring well, aerial	photos, pre	vious inspe	ctions), i	if available:		
Remarks:									

Project/Site: Sloughhouse Solar Energy Project	C	City/County: Sacramento County Sampling Date: 11/12/2020							
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA S	ampling Poin	t:1	L85	
Investigator(s): A. Godinho and A. Sennett	s	ection, To	wnship, Rar	nge: Township	7N / Rang	ge 7E / Secti	on 10		
Landform (hillslope, terrace, etc.): <u>Drainage</u>								: <u>5</u>	
Subregion (LRR): C	Lat: 38.40	38.46881823 Long: -121.1898915 Datum: WGS							
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%									
Are climatic / hydrologic conditions on the site typical for this tir									
Are Vegetation, Soil, or Hydrology sign				Normal Circumst			✓ N	lo	
Are Vegetation, Soil, or Hydrology natu				eded, explain an	•	_		-	
SUMMARY OF FINDINGS – Attach site map sh								s, etc.	
Lhudanhudia Vanatatian Propert	./			<u> </u>		<u> </u>			
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _	_		e Sampled						
Wetland Hydrology Present? Yes No _		with	in a Wetlan	id? Yo	es	_ No <u>√</u>			
Remarks:									
No break in slope or change in vegetation. To	wo-trac	k road i	s presen	t in this area					
VEGETATION – Use scientific names of plants.									
<u> </u>		Dominant	Indicator	Dominance Te	st worksh	eet:			
			Status	Number of Dom					
1				That Are OBL,			0	(A)	
2				Total Number of	f Dominan				
3				Species Across	All Strata	: <u> </u>	2	(B)	
4				Percent of Dom			_		
Sapling/Shrub Stratum (Plot size:)	=	= Total Co	ver	That Are OBL,	FACW, or	FAC:	0	(A/B)	
1				Prevalence Inc	dex works	heet:			
2				Total % Co					
3				OBL species		x 1 =			
4				FACW species				_	
5	_			FAC species FACU species		x 3 =		_	
Herb Stratum (Plot size: 5m x 5m )	0=	= Total Co	ver	UPL species				_	
1. Holocarpha virgata	20	Υ	UPL	Column Totals:			425	— (B)	
2. Bromus hordeaceus		Υ	FACU					_ (D)	
3. Lactuca serriola	5	N	UPL			B/A =	4.25	_	
4				Hydrophytic V	_				
5				Dominance					
6				Prevalence		3.0° ations¹ (Provi	ممسيم ما	rtin a	
7				Morphologi data in	Remarks c	or on a separa	ate suppo ate sheet)	rung	
8		= Total Co		Problemati	c Hydroph	ytic Vegetation	n¹ (Expla	ıin)	
Woody Vine Stratum (Plot size:)	100 :	= Total Co	vei						
1				<sup>1</sup> Indicators of h				must	
2				be present, unle	ess disturb	ea or probler	natic.		
_	0 =	= Total Co	ver	Hydrophytic Vegetation					
% Bare Ground in Herb Stratum	Biotic Cru	ıstC	)	Present?	Yes	No	✓		
Remarks:				I					

Profile Desc Depth	cription: (Describe Matrix	to the dept		ment the in ox Features		or confirr	n the absence of	of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/2	100					Silty clay	
		- <u> </u>						
	-							
1Type: C-C	oncentration, D=Dep	letion RM-	Peduced Matrix C	S-Covered	Lor Coate	nd Sand G	raine <sup>2</sup> l oca	ation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					a cana c		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		,			uck (A9) (LRR C)
	pipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mud		(F1)		·	d Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle				Red Pai	rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M	latrix (F3)			Other (E	Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Darl	,				
	d Below Dark Surfac	e (A11)	Depleted D				3.	
	ark Surface (A12)		Redox Dep		-8)			of hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	IS (F9)				ydrology must be present, sturbed or problematic.
	Layer (if present):						uniess dis	sturbed of problematic.
Type: ha								
Depth (in			<del></del>				Hydric Soil F	Present? Yes No ✓
Remarks:	cries). <u>Z</u>						Hydric Soil F	Present? Yes No <u>√</u>
HYDROLO								
-	drology Indicators:							
Primary India	cators (minimum of o	ne required	; check all that app	ly)			Second	dary Indicators (2 or more required)
	Water (A1)		Salt Crust	` '				ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Se	diment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic In	vertebrates	s (B13)		Dri	ft Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonriver</b>	ine)	Hydrogen					ainage Patterns (B10)
Sedime	nt Deposits (B2) (No	nriverine)	<del></del>		-	-		y-Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence					ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	on in Tille	d Soils (C		turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B7		Surface (				allow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in Re	marks)		FA	.C-Neutral Test (D5)
Field Obser			,					
Surface Wat			lo <u>✓</u> Depth (in					
Water Table	Present?	'es N	lo <u>√</u> Depth (in	iches):		_		
Saturation P		'es N	lo <u>√</u> Depth (in	ches):		Wet	land Hydrology	Present? Yes No✓
	pillary fringe) corded Data (stream	0.000.00	nitoring well coriel	nhotos re	ovious iss	noctions\	if available:	
Describe Re	corded Data (Stream	i gauge, mo	mitoring well, aerial	priotos, pre	evious ins	pections),	ii avaliable.	
Damarita								
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/Co	City/County: Sacramento County Sampling Date: 11/12,							
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA S	ampling Poin	t:1	.86	
Investigator(s): A. Godinho and A. Sennett	Sectio	n, Towns	ship, Ran	ge: Township 7	7N / Rang	e 7E / Secti	on 10		
Landform (hillslope, terrace, etc.): Drainage								: <u>5</u>	
Subregion (LRR): C	38.46955	38.46955453 Long: -121.1893525 Datum: WGS8							
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% slo									
Are climatic / hydrologic conditions on the site typical for this time									
Are Vegetation, Soil, or Hydrology signific				Normal Circumsta			✓ N	0	
Are Vegetation, Soil, or Hydrology natural				eded, explain any					
SUMMARY OF FINDINGS – Attach site map show								s, etc.	
Hydrophytic Vegetation Present? Yes No•	,			<u> </u>					
Hydric Soil Present? Yes No _▼	/		ampled			/			
Wetland Hydrology Present? Yes No _▼		within a	a Wetlan	d? Ye	es	_ No <u>√</u>	_		
Remarks:	<u> </u>								
Area of sheet flow. No break in slope or change in veget	tation. Upla	and veg	getation						
VEGETATION – Use scientific names of plants.									
<u> </u>	olute Dom	inant Inc	dicator	Dominance Te	et workeh	oot:			
	over Spec			Number of Dom					
1				That Are OBL,			0	(A)	
2				Total Number of	f Dominan	t			
3				Species Across			2	(B)	
4				Percent of Dom					
Sapling/Shrub Stratum (Plot size:)	<u>0</u> = Tota	al Cover		That Are OBL,	FACW, or	FAC:	0	(A/B)	
1			•	Prevalence Inc	lex works	heet:			
2.				Total % Co	ver of:	Mult	iply by:	_	
3				OBL species		x 1 =			
4				FACW species				_	
5				FAC species		x 3 =		_	
Herb Stratum (Plot size: 5m x 5m )	<u>0</u> = Tota	al Cover		FACU species				_	
	20 Y	,	UPL	UPL species Column Totals:		x 5 = (A)	425	— (D)	
2. Bromus hordeaceus			ACU	Column Totals:	100	(A)	423	(B)	
			UPL	Prevalenc	e Index =	B/A =	4.25	_	
4				Hydrophytic V	_				
5				Dominance					
6				Prevalence					
7				Morphologi	ical Adapta Remarks o	ntions¹ (Proviers on a separa	de suppo ite sheet)	rting	
8				Problemati			,		
Woody Vine Stratum (Plot size:)	<u>.00</u> = Tota	al Cover							
1				<sup>1</sup> Indicators of hy				must	
2				be present, unle	ess disturb	ed or probler	natic.		
	<u>0</u> = Tota			Hydrophytic					
% Bare Ground in Herb Stratum 0	otic Crust	0		Vegetation Present?	Yes_	No	✓		
Remarks:			•			_ <del></del>			

Profile Desc	cription: (Descr	ibe to the deptl	n needed to docu	ment the in	dicator or	confirm	the absence of indi	icators.)	
Depth	Matri			x Features	<b>-</b> 1	. 2	<b>-</b>		
(inches)	Color (moist)		Color (moist)	<u> %</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-2	10 YR 3/2	100					Silty clay		
				,					
	-								
<del></del>									
	-								
		_	Reduced Matrix, C			Sand Gra		PL=Pore Lining, N	
Hydric Soil	Indicators: (Ap	olicable to all L	RRs, unless othe	rwise note	d.)		Indicators for Pro	oblematic Hydric	Soils³:
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck (A	(49) ( <b>LRR C</b> )	
-	pipedon (A2)		Stripped M				2 cm Muck (A	, ,	
Black Hi	istic (A3)			cky Mineral			Reduced Ver		
	en Sulfide (A4)			yed Matrix (	(F2)		Red Parent M		
	d Layers (A5) ( <b>LF</b>	RR C)	Depleted M	. ,			Other (Explain	n in Remarks)	
_	uck (A9) ( <b>LRR D</b> )			k Surface (F	,				
-	d Below Dark Sur			ark Surface	. ,		31 11 1 11		
	ark Surface (A12)			ressions (F	8)			rophytic vegetation	
	Mucky Mineral (Sa		Vernal Poo	is (F9)			•	ogy must be preser d or problematic.	11,
	Gleyed Matrix (S4 Layer (if present						T Uniess disturbe	d of problematic.	
Type: ha		.,.							
, , <u> </u>								.a. v	/
Depth (in	ches): <u>Z</u>		<del></del>				Hydric Soil Prese	nt? Yes	No <u>√</u>
Remarks:									
HYDROLO	GY								
	drology Indicate	ve:							
Ī			ah a ah all dhad ann	L A			0		
	•	of one required;	check all that app					ndicators (2 or more	
Surface			Salt Crust					larks (B1) (Riverin	
	ater Table (A2)		Biotic Cru					nt Deposits (B2) (R	
Saturation			Aquatic In					oosits (B3) (Riverin	ne)
	larks (B1) ( <b>Nonri</b>		Hydrogen					e Patterns (B10)	
Sedimer	nt Deposits (B2) (	(Nonriverine)	· · · · · · · · · · · · · · · · · · ·		-	ing Roo	ts (C3) Dry-Sea	son Water Table (0	C2)
Drift Dep	posits (B3) ( <b>Nonr</b>	iverine)	Presence		, ,			Burrows (C8)	
Surface	Soil Cracks (B6)		Recent Iro	n Reductio	n in Tilled S	Soils (C6)	s) <u>v</u> Saturation	on Visible on Aeria	Imagery (C9)
Inundati	on Visible on Aer	ial Imagery (B7)	Thin Mucl	c Surface (C	27)		Shallow	Aquitard (D3)	
Water-S	stained Leaves (B	9)	Other (Ex	plain in Ren	narks)		FAC-Ne	utral Test (D5)	
Field Obser	vations:								
Surface Wat	er Present?	Yes N	o _ ✓ _ Depth (in	ches):					
Water Table	Present?	Yes N	o ✓ Depth (in	ches):					
Saturation P	resent?		o ✓ Depth (in			Wetla	and Hydrology Pres	ent? Yes	No √
(includes cap		1631	o <u> </u>			VVCtic	and riyurology i res		
		am gauge, mor	nitoring well, aerial	photos, pre	vious inspe	ctions), i	if available:		
Remarks:									

Project/Site: Sloughhouse Solar Energy Project	c	city/County: Sacramento County Sampling Date: 11/12/2020							
Applicant/Owner: D.E. Shaw Renewable Investments				State:	CA Sa	mpling Point	1	.87	
Investigator(s): A. Godinho and A. Sennett									
Landform (hillslope, terrace, etc.): Drainage				_				5	
Subregion (LRR): C L									
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% s									
Are climatic / hydrologic conditions on the site typical for this tim									
Are Vegetation, Soil, or Hydrology signi	ificantly d	isturbed?	Are "	Normal Circumst	ances" pres	ent? Yes _	✓ N	о	
Are Vegetation, Soil, or Hydrology natu	rally prob	lematic?	(If ne	eded, explain an	y answers ir	n Remarks.)			
SUMMARY OF FINDINGS – Attach site map sho				ocations, trar	nsects, in	nportant f	eature	s, etc.	
Hydrophytic Vegetation Present? Yes No _	<b>√</b>	la 4	h a Camanda d	A					
Hydric Soil Present? Yes No			he Sampled hin a Wetlan		96	No✓			
Wetland Hydrology Present? Yes No _	✓	WIL	illi a vvetiali	id: IV		NO <u>v</u>	_		
Remarks:	_								
No defined swale or depression present. Area likely sh	neet flov	vs durin	g runoff ev	ents.					
VEGETATION – Use scientific names of plants.									
			t Indicator	Dominance Te	st workshe	et:			
			Status_	Number of Don			0	(4)	
1				That Are OBL,	FACVV, OF F	AC:	0	(A)	
2				Total Number of Species Across			2	(B)	
4								(D)	
	0			Percent of Dom That Are OBL,			0	(A/R)	
Sapling/Shrub Stratum (Plot size:)								(700)	
1				Prevalence Inc					
2						Multi			
3				OBL species FACW species		_ x 1 =		_	
4				FAC species		x2= x3=		_	
5	0 :	– Total C	over	FACU species				_	
Herb Stratum (Plot size: 5m x 5m )		- Total O	OVCI	UPL species		x 5 =			
1. Holocarpha virgata	20	Υ	UPL	Column Totals:		(A)	425	— (B)	
2. Bromus hordeaceus	75	Υ	FACU			_ , ,	4.25	_ ` '	
3. <u>Lactuca serriola</u>	5	N	UPL			B/A =	4.25		
4				Hydrophytic V	_				
5				Dominance					
6				Prevalence			0.011000	tina	
7						on a separa			
8		= Total C	0.405	Problemati	c Hydrophyt	tic Vegetatio	n¹ (Expla	in)	
Woody Vine Stratum (Plot size:)	100	= Total C	ovei						
1				<sup>1</sup> Indicators of hy				must	
2				be present, unle	ess disturbe	a or problem	atic.		
_	0	= Total C	over	Hydrophytic Vegetation					
% Bare Ground in Herb Stratum 0	Biotic Cru	ust	0	Present?	Yes _	No _	✓		
Remarks:				<u> </u>					

Profile Desc Depth	cription: (Describe Matrix	to the dept		ment the in ox Features		or confirr	n the absence of	of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10 YR 3/2	100					Silty clay	
		- <u> </u>						
	-							
1Type: C-C	oncentration, D=Dep	letion RM-	Peduced Matrix C	S-Covered	Lor Coate	nd Sand G	raine <sup>2</sup> l oca	ation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					a cana c		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red		,			uck (A9) (LRR C)
	pipedon (A2)		Stripped M					uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mud		(F1)		·	d Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle				Red Pai	rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M	latrix (F3)			Other (E	Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Darl	,				
	d Below Dark Surfac	e (A11)	Depleted D				3.	
	ark Surface (A12)		Redox Dep		-8)			of hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	IS (F9)				ydrology must be present, sturbed or problematic.
	Layer (if present):						uniess dis	sturbed of problematic.
Type: ha								
Depth (in			<del></del>				Hydric Soil F	Present? Yes No ✓
Remarks:	cries). <u>Z</u>						Hydric Soil F	Present? Yes No <u>√</u>
HYDROLO								
-	drology Indicators:							
Primary India	cators (minimum of o	ne required	; check all that app	ly)			Second	dary Indicators (2 or more required)
	Water (A1)		Salt Crust	` '				ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Se	diment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic In	vertebrates	s (B13)		Dri	ft Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonriver</b>	ine)	Hydrogen					ainage Patterns (B10)
Sedime	nt Deposits (B2) (No	nriverine)	<del></del>		-	-		y-Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence					ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	on in Tille	d Soils (C		turation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B7		Surface (				allow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	plain in Re	marks)		FA	.C-Neutral Test (D5)
Field Obser			,					
Surface Wat			lo <u>✓</u> Depth (in					
Water Table	Present?	'es N	lo <u>√</u> Depth (in	iches):		_		
Saturation P		'es N	lo <u>√</u> Depth (in	ches):		Wet	land Hydrology	Present? Yes No✓
	pillary fringe) corded Data (stream	0.000.00	nitoring well coriel	nhotos re	ovious iss	noctions\	if available:	
Describe Re	corded Data (Stream	i gauge, mo	mitoring well, aerial	priotos, pre	evious ins	pections),	ii avaliable.	
Damarita								
Remarks:								

Project/Site: SSEP	ject/Site: SSEP City/County: Sac										
Applicant/Owner: State: CA Sampling Point: 188											
Investigator(s): LB, AG	;	Section, To	ownship, Rar	nge: Township 7N	N / Range 7E	Z / Section	14				
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave, c	convex, none): nor	ne	Slop	oe (%):	0			
Subregion (LRR): C	Lat: 38.4	16554546	<u> </u>	Long: -121.1814	4737	Datur	m: WGS	384			
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	6 slopes			NWI cl	lassification: 1	n/a					
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes _									
Are Vegetation, Soil, or Hydrology sig	gnificantly o	disturbed?	Are "	Normal Circumstar	nces" present	? Yes <u></u>	/ No	)			
Are Vegetation, Soil, or Hydrology na				eded, explain any	answers in Re	emarks.)					
SUMMARY OF FINDINGS – Attach site map s	howing	samplir	ng point lo	ocations, trans	sects, imp	ortant fe	atures	s, etc.			
Hydrophytic Vegetation Present? Yes No		ls tl	ne Sampled	Area							
Hydric Soil Present? Yes No		with	nin a Wetlan	ıd? Yes	s N	۷o <u>۷</u>	-				
Wetland Hydrology Present? Yes No Remarks:											
Point taken within feature previously mapp	ed as "s	wale" h	v SSHCP								
Tome taken within reactive previously mapp	ca as s	waic b	y Joriel								
VEGETATION – Use scientific names of plant											
	Absolute % Cover			Dominance Test							
1				Number of Domir That Are OBL, FA				(A)			
2								( )			
3				Total Number of Species Across A		3		(B)			
4				Percent of Domir	nant Species						
Carling/Obsult Charles (Diet sing)	0	= Total Co	over	That Are OBL, FA	ACW, or FAC	:0	1	(A/B)			
Sapling/Shrub Stratum (Plot size:)				Prevalence Inde	v workshoot						
1 2				Total % Cove			v bv:				
3					0						
4				FACW species				-			
5			·		0			_			
		= Total Co	over	FACU species 2	40	x 4 =	160	_			
Herb Stratum (Plot size: 1m^2				UPL species	60	x 5 =	300	_			
1. Ely. capmed.	40	Y	UPL	Column Totals: _	100	(A)	360	_ (B)			
2. Bro. hor.	<u>40</u> 20	Y	FACU	Drovolonoo	Index = B/A	_ 3	.6				
3. Hol. vir.			UPL	Hydrophytic Veg			.0				
4				Dominance	_	cators.					
5				Prevalence I							
6 7					al Adaptations	s <sup>1</sup> (Provide	support	ing			
8				data in Re	emarks or on	a separate	sheet)				
	400	= Total Co	over	Problematic	Hydrophytic \	/egetation <sup>1</sup>	(Explair	า)			
Woody Vine Stratum (Plot size:)				4							
1				<sup>1</sup> Indicators of hyd be present, unles				iust			
2	_		·	•							
		= Total Co		Hydrophytic Vegetation							
% Bare Ground in Herb Stratum0 % Cover	of Biotic Cr	rust	0	Present?	Yes	No					
Remarks:											

	cription: (Describe	to the dept			dicator	or confirn	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100	, <u>,</u>				SiC	
	-							
						-		
1								
	oncentration, D=Dep					d Sand G		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
•	Indicators: (Applic	able to all I			u.)			•
Histoso	pipedon (A2)		Sandy Red Stripped Ma	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mud		(F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted M		/			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	Redox Darl		<del>-</del> 6)			,
	d Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)			
	ark Surface (A12)		Redox Dep		8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Type: Ha								
Depth (in	ches): <u>2</u>						Hydric Soil F	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary Indi	cators (minimum of o	one required	; check all that appl	y)			Second	lary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturati			Aquatic In		(B13)			ft Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen		` ,			ainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized F			Living Ro	· · · · · · · · · · · · · · · · · · ·	/-Season Water Table (C2)
	posits (B3) (Nonrive			of Reduced	_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro	n Reductio	n in Tilled	d Soils (C		turation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7		Surface (C		,		allow Aquitard (D3)
	Stained Leaves (B9)	0 , (		olain in Ren			FA	C-Neutral Test (D5)
Field Obser	vations:							· · ·
Surface Wat	ter Present?	′es N	No <u>✓</u> Depth (in	ches):				
Water Table			No <u>✓</u> Depth (in					
Saturation F			No <u>✓</u> Depth (in				land Hydrology	Present? Yes No
	pillary fringe)	C3 1	vo <u>v</u> Deptii (iii	Ci ies)		_   ""	and Hydrology	11636H1: 163 NO
Describe Re	ecorded Data (stream	n gauge, mo	nitoring well, aerial	photos, pre	vious ins	pections),	if available:	
Remarks:								

Project/Site: SSEP	iect/Site: SSEP City/County: Sa										
Applicant/Owner: State: CA Sampling Point: 189											
Investigator(s): LB, AG	;	Section, To	ownship, Rar	nge: Township 7	N / Range 7	E / Section	า 14				
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave, c	convex, none): no	ne	Slo	pe (%):	0			
Subregion (LRR): C	Lat: 38.4	6553731		Long: -121.181	8285	Datu	m: WG	584			
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	6 slopes			NWI c	classification:	n/a					
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes									
Are Vegetation, Soil, or Hydrology sig	gnificantly of	disturbed?	Are "	Normal Circumsta	nces" present	:? Yes <u>v</u>	<u>/</u> No	)			
Are Vegetation, Soil, or Hydrology na				eded, explain any	answers in Re	emarks.)					
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	ng point lo	ocations, trans	sects, imp	ortant fe	atures	s, etc.			
Hydrophytic Vegetation Present? Yes No		ls th	ne Sampled	Area							
Hydric Soil Present? Yes No			nin a Wetlan		s N	No	_				
Wetland Hydrology Present? Yes No Remarks:											
Point taken within feature previously mapp	ad by S	CHCD									
Point taken within reactive previously mapp	eu by 3.	DITCE									
<b>VEGETATION</b> – Use scientific names of plant	s.										
	Absolute % Cover			Dominance Tes							
1				Number of Domi That Are OBL, F			)	(A)			
2						·		(71)			
3.				Total Number of Species Across		3	}	(B)			
4								( )			
	0	= Total Co	over	Percent of Domi That Are OBL, F	ACW, or FAC	: <u> </u>	)	(A/B)			
Sapling/Shrub Stratum (Plot size:)				Prevalence Inde	av workshoot	·-					
1				Total % Cov			v hv:				
2					0						
4				FACW species				_			
5					0			_			
4 40		= Total Co	over	FACU species			160	_			
Herb Stratum (Plot size: 1m^2)	40	V	LIDI	UPL species	60		300	_			
1. Ely. capmed.	40		UPL	Column Totals:	100	(A)	360	_ (B)			
2. <u>Bro. hor.</u> 3. Hol. vir.	<u>40</u> 20	Y	FACU UPL	Prevalence	e Index = B/A	_ 3	.6				
			011	Hydrophytic Ve							
4.       5.				Dominance	_						
6				Prevalence							
7				Morphologic	al Adaptation	s <sup>1</sup> (Provide		ing			
8					emarks or on		,	`			
	100	= Total Co	over	Problematic	Hydrophytic	vegetation	(Explaii	ገ)			
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydronic	dric soil and w	vetland hyd	rology m	nuet			
1			· ——	be present, unle				iust			
2	_	= Total Co		Hydrophytic							
				Vegetation	.,						
	of Biotic Cr	ust	<u> </u>	Present?	Yes	No					
Remarks:											

	cription: (Describe	to the dept			dicator	or confirn	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100	, <u>,</u>				SiC	
	-							
						-		
1								
	oncentration, D=Dep					d Sand G		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
•	Indicators: (Applic	able to all I			u.)			•
Histoso	pipedon (A2)		Sandy Red Stripped Ma	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mud		(F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted M		/			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	Redox Darl		<del>-</del> 6)			,
	d Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)			
	ark Surface (A12)		Redox Dep		8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Type: Ha								
Depth (in	ches): <u>2</u>						Hydric Soil F	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary Indi	cators (minimum of o	one required	; check all that appl	y)			Second	lary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturati			Aquatic In		(B13)			ft Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen		` ,			ainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized F			Living Ro	· · · · · · · · · · · · · · · · · · ·	/-Season Water Table (C2)
	posits (B3) (Nonrive			of Reduced	_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro	n Reductio	n in Tilled	d Soils (C		turation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7		Surface (C		,		allow Aquitard (D3)
	Stained Leaves (B9)	0 , (		olain in Ren			FA	C-Neutral Test (D5)
Field Obser	vations:							· · ·
Surface Wat	ter Present?	′es N	No <u>✓</u> Depth (in	ches):				
Water Table			No <u>✓</u> Depth (in					
Saturation F			No <u>✓</u> Depth (in				land Hydrology	Present? Yes No
	pillary fringe)	C3 1	vo <u>v</u> Deptii (iii	Ci ies)		_   ""	and riyarology	11636Ht: 163 NO
Describe Re	ecorded Data (stream	n gauge, mo	nitoring well, aerial	photos, pre	vious ins	pections),	if available:	
Remarks:								

Project/Site: SSEP		City/Coun	<sub>ty:</sub> Sacrame	nto County	Sampling I	Date: 11/1	.3/2020
Applicant/Owner:				State: CA	Sampling F	oint:	191
Investigator(s): LB, AG							
Landform (hillslope, terrace, etc.): bottomland		Local reli	ef (concave,	convex, none): none		Slope (%)	: 0
Subregion (LRR): C	Lat: 38.4	1652011	5	Long: -121.182415	7	Datum: WO	GS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%							
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes_	✓ No_	(If no, explain ir	n Remarks.)		
Are Vegetation, Soil, or Hydrology sig	gnificantly	disturbed	? Are "	'Normal Circumstances	s" present? Y	es <u>√</u> N	lo
Are Vegetation, Soil, or Hydrology na	turally pro	blematic?	(If ne	eded, explain any ans	wers in Remar	ks.)	
SUMMARY OF FINDINGS – Attach site map s	howing	sampli	ng point l	ocations, transec	ts, importa	ınt feature	es, etc.
Hydrophytic Vegetation Present? Yes No		lo i	the Sampled	Aron			
Hydric Soil Present? Yes No			thin a Wetlar		No	V	
Wetland Hydrology Present? Yes No			a would				
Remarks:							
Point taken within feature previously mapp	ed by S	SHCP					
VEGETATION – Use scientific names of plants	s.						
			nt Indicator	Dominance Test wo	orksheet:		
Tree Stratum (Plot size:)  1			? Status	Number of Dominant That Are OBL, FACV		1	(Δ)
2							_ (^)
3.				Total Number of Don Species Across All S		3	(B)
4							_ (-)
		= Total C		Percent of Dominant That Are OBL, FACV		33	(A/B)
Sapling/Shrub Stratum (Plot size:)							_ ` ,
1				Prevalence Index w  Total % Cover o		Multiply by:	
2					x 1 :		
3				FACW species 0			
5				FAC species 35			
		= Total C	Cover	FACU species 25			
Herb Stratum (Plot size: 1m^2					x 5 =	125	
1. Hor. mar.	25	Y N	<u>FAC</u> FAC	Column Totals:	85 (A)	330	(B)
2. Bri. min. 3. Ely. cap-med.	<u>10</u> 25	Y	UPL	Prevalence Ind	lex = B/A =	3.9	
. Pro hor	25	Y	FACU	Hydrophytic Vegeta			
5				Dominance Test			
6.				Prevalence Inde			
7.				Morphological A	daptations1 (P	rovide suppo	orting
8.					arks or on a se		
	85	= Total C	Cover	Problematic Hyd	Irophytic Vege	tation' (Expla	ain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric	soil and watlar	ad bydrology	munt
1				be present, unless di			must
2	_	= Total C	Cover	Hydrophytic			
15		•		Vegetation			
% Bare Ground in Herb Stratum 15 % Cover	of Biotic C	rust	0	Present?	Yes	No	
Remarks:							
15% thatch							

	cription: (Describe	to the dept			dicator	or confirn	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100	, <u>,</u>				SiC	
	-							
						-		
1								
	oncentration, D=Dep					d Sand G		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
•	Indicators: (Applic	able to all I			u.)			•
Histoso	pipedon (A2)		Sandy Red Stripped Ma	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mud		(F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted M		/			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	Redox Darl		<del>-</del> 6)			,
	d Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)			
	ark Surface (A12)		Redox Dep		8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Type: Ha								
Depth (in	ches): <u>2</u>						Hydric Soil F	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary Indi	cators (minimum of o	one required	; check all that appl	y)			Second	lary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturati			Aquatic In		(B13)			ft Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen		` ,			ainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized F			Living Ro	· · · · · · · · · · · · · · · · · · ·	/-Season Water Table (C2)
	posits (B3) (Nonrive			of Reduced	_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro	n Reductio	n in Tilled	d Soils (C		turation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7		Surface (C		,		allow Aquitard (D3)
	Stained Leaves (B9)	0 , (		olain in Ren			FA	C-Neutral Test (D5)
Field Obser	vations:							· · ·
Surface Wat	ter Present?	′es N	No <u>✓</u> Depth (in	ches):				
Water Table			No <u>✓</u> Depth (in					
Saturation F			No <u>✓</u> Depth (in				land Hydrology	Present? Yes No
	pillary fringe)	C3 1	vo <u>v</u> Deptii (iii	Ci ies)		_   ****	and Hydrology	11636Ht: 163 NO
Describe Re	ecorded Data (stream	n gauge, mo	nitoring well, aerial	photos, pre	vious ins	pections),	if available:	
Remarks:								

Project/Site: SSEP	City/County: Sa	cramento County	Sampling Date: 11/13/2020
Applicant/Owner:	State: CA	Sampling Point: 192	
Investigator(s): LB, AG	Section, Towns	hip, Range: Township 7N / Ra	inge 7E / Section 14
Landform (hillslope, terrace, etc.): hillslope			
Subregion (LRR):	Lat: 38.46502242	Long: -121.1825273	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30			
Are climatic / hydrologic conditions on the site typical for th	,		
Are Vegetation, Soil, or Hydrology			present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present? Yes N	NO lo the Se	ampled Area	
Hydric Soil Present? Yes N	No within a	ampled Area Wetland?	′ No
Wetland Hydrology Present? Yes ^	No	Welland: Tes	
Remarks:			
Within SW-43			
VEGETATION – Use scientific names of plan	nts.		
T. O. (D.)	Absolute Dominant Ind		sheet:
Tree Stratum (Plot size:)	% Cover Species? St	Number of Dominant S	'
1		That Are OBL, FACW,	or FAC: (A)
3.		Total Number of Domir Species Across All Stra	
4.			、,
	= Total Cover	Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size:)			
1			Multiply by:
2 3			x 1 =
4			x 2 =
5.			x 3 =
	0 = Total Cover	FACU species	x 4 =
Herb Stratum (Plot size: 1m^2)	75 V 5		x 5 =
1. Hor. mar.			(A) (B)
2			c = B/A =
3 4			
5		<del></del>	
6.			is ≤3.0 <sup>1</sup>
7		Morphological Ada	aptations <sup>1</sup> (Provide supporting
8			s or on a separate sheet) ophytic Vegetation¹ (Explain)
Manda Vina Chatana (Diataina	= Total Cover	Problematic Hydro	priytic vegetation (Explain)
Woody Vine Stratum (Plot size:)  1		<sup>1</sup> Indicators of hydric so	il and wetland hydrology must
2.		be present, unless dist	
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum25 % Cove	er of Biotic Crust 0	Vegetation Present? Ye	es <u>/</u> No
Remarks:	5. 5. Diolio Olust		
Tromano.			
I .			

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absen	ce of indicators.)			
Depth	Matrix			x Feature	es		<u>-</u>				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks			
0-4	7.5YR 3/1	90	7.5YR 4/6	10	С	M	SiC				
	-				<del>-</del>			<u> </u>			
							-				
ļ ———						·	-	<del>-</del> -			
					-	•					
1		<del></del>						<u> </u>			
	oncentration, D=Dep					ed Sand G		Location: PL=Pore Lining, M=Matrix.			
-	Indicators: (Applic	able to all	LRRs, unless othe	rwise no	ted.)		Indicato	ors for Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Sandy Red				1 cn	n Muck (A9) (LRR C)			
	pipedon (A2)		Stripped M					n Muck (A10) (LRR B)			
Black Hi	istic (A3)		Loamy Mu			luced Vertic (F18)					
	en Sulfide (A4)		Loamy Gle			Parent Material (TF2)					
	d Layers (A5) (LRR	C)	Depleted M		Oth	er (Explain in Remarks)					
	uck (A9) ( <b>LRR D</b> )		Redox Dar	k Surface	(F6)						
	d Below Dark Surfac	e (A11)	Depleted D				_				
	ark Surface (A12)		Redox Dep		(F8)			ors of hydrophytic vegetation and			
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				nd hydrology must be present,			
	Gleyed Matrix (S4)						unles	s disturbed or problematic.			
	Layer (if present):										
Type: Ha	ırdpan										
Depth (in	ches): <u>4</u>						Hydric S	oil Present? Yes ✓ No			
Remarks:											
HYDROLO	GY										
	drology Indicators:	1									
1				1\			Car	dladiaatana (0			
	cators (minimum of o	one require						condary Indicators (2 or more required)			
Surface	Water (A1)		Salt Crust	'				Water Marks (B1) (Riverine)			
High Wa	ater Table (A2)		Biotic Cru	st (B12)				Sediment Deposits (B2) (Riverine)			
Saturati	on (A3)		Aquatic Ir	vertebrat	es (B13)			Drift Deposits (B3) (Riverine)			
Water M	farks (B1) (Nonriver	rine)	Hydrogen	Sulfide C	dor (C1)			Drainage Patterns (B10)			
Sedime	nt Deposits (B2) (No	nriverine)	Oxidized	Rhizosph	eres along	Living Ro	oots (C3)	Dry-Season Water Table (C2)			
Drift De	posits (B3) (Nonrive	rine)	Presence	of Reduc	ed Iron (C	4)		Crayfish Burrows (C8)			
	Soil Cracks (B6)	,	Recent Iro		,	•	·	Saturation Visible on Aerial Imagery (C9)			
	on Visible on Aerial	Imagery (B				(-		Shallow Aquitard (D3)			
	Stained Leaves (B9)	iiiagoiy (D	Other (Ex		. ,			FAC-Neutral Test (D5)			
Field Obser	` ,		Other (EX	piaiii iii ix	ciriarks)			TAO Nedital Test (DS)			
Surface Wat			No <u>√</u> Depth (ir								
Water Table	Water Table Present? Yes No _✓ Depth (inches):										
Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes _											
(includes cap	pillary fringe)										
Describe Re	escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:											

Project/Site: SSEP		City/County	: Sacramei	nto County	Samplin	g Date:1	1/13/2020				
Applicant/Owner: State: <u>CA</u> Sampling Point: <u>193</u>											
Investigator(s): LB, AG											
Landform (hillslope, terrace, etc.): bottomland		Local relief	(concave, c	convex, none): conca	ve	Slope	(%):0				
Subregion (LRR): C	Lat: 38.4	6490722		Long: -121.182414	-3	Datum:	WGS84				
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	6 slopes			NWI class	ification: n/	a					
Are climatic / hydrologic conditions on the site typical for this	time of yea	r? Yes									
Are Vegetation, Soil, or Hydrology sig	gnificantly o	disturbed?	Are "	Normal Circumstances	s" present?	Yes <u>√</u>	_ No				
Are Vegetation, Soil, or Hydrology na			(If ne	eded, explain any ans	wers in Rem	narks.)					
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point lo	ocations, transec	ts, impor	tant feat	ures, etc.				
Hydrophytic Vegetation Present? Yes No		ls th	e Sampled	Area							
Hydric Soil Present? Yes No			in a Wetlan		No	<b>✓</b>					
Wetland Hydrology Present? Yes No											
Remarks:	ad by CC	CLICD									
Point taken within feature previously mapp	ed by 53	опср									
VEGETATION – Use scientific names of plants	s.										
	Absolute % Cover			Dominance Test wo							
1				Number of Dominant That Are OBL, FACV		0	(A)				
2							(/ //				
3.				Total Number of Dor Species Across All S		3	(B)				
4				Percent of Dominant							
Cooling/Charle Caratura (Dict size)	0	= Total Co	ver	That Are OBL, FACV	N, or FAC:	0	(A/B)				
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index w	orksheet:						
2				Total % Cover o		Multiply b	v:				
3					x						
4.				FACW species 0							
5					x						
4 40		= Total Co	ver	FACU species 40							
Herb Stratum (Plot size: 1m^2 )  1. Ely. capmed.	40	Υ	UPL	UPL species 60							
2. Bro. hor.	40	Y	FACU	Column Totals:	100 (A	.)36	0 (B)				
3. Hol. vir.	20	Y	UPL	Prevalence Ind	lex = B/A =	3.6					
4				Hydrophytic Vegeta							
5				Dominance Test							
6				Prevalence Inde	x is ≤3.0 <sup>1</sup>						
7				Morphological A							
8				data in Rema Problematic Hyd		•					
Woody Vine Stratum (Plot size:)	100	= Total Co	ver	i lobiematic riye	nopriyuc ve	getation (L.	лріант)				
1				<sup>1</sup> Indicators of hydric	soil and wet	land hydrolc	ogy must				
2.				be present, unless d							
	_	= Total Co	ver	Hydrophytic							
% Bare Ground in Herb Stratum 0	of Biotic Cr	ust (	)	Vegetation Present?	Yes	No 🗸					
Remarks:		- = -					_				

	cription: (Describe	to the dept			dicator	or confirn	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100	, <u>,</u>				SiC	
	-							
						-		
1								
	oncentration, D=Dep					d Sand G		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
•	Indicators: (Applic	able to all I			u.)			•
Histoso	pipedon (A2)		Sandy Red Stripped Ma	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mud		(F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M		/			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	Redox Darl		<del>-</del> 6)			,
	d Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)			
	ark Surface (A12)		Redox Dep		8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Type: Ha								
Depth (in	ches): <u>2</u>						Hydric Soil F	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary Indi	cators (minimum of o	one required	; check all that appl	y)			Second	lary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturati			Aquatic In		(B13)			ft Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen		` ,			ainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized F			Living Ro	· · · · · · · · · · · · · · · · · · ·	/-Season Water Table (C2)
	posits (B3) (Nonrive			of Reduced	_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro	n Reductio	n in Tilled	d Soils (C		turation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7		Surface (C		,		allow Aquitard (D3)
	Stained Leaves (B9)	0 , (		olain in Ren			FA	C-Neutral Test (D5)
Field Obser	vations:							· · ·
Surface Wat	ter Present?	′es N	No <u>✓</u> Depth (in	ches):				
Water Table			No <u>✓</u> Depth (in					
Saturation F			No <u>✓</u> Depth (in				land Hydrology	Present? Yes No
	pillary fringe)	C3 1	vo <u>v</u> Deptii (iii	Ci ies)		_   ****	and Hydrology	11636Ht: 163 NO
Describe Re	ecorded Data (stream	n gauge, mo	nitoring well, aerial	photos, pre	vious ins	pections),	if available:	
Remarks:								

Project/Site: SSEP		City/Cour	<sub>nty:</sub> <u>Sacrame</u>	nto County	Sam	npling Date	: <u>11/1</u> 3	3/2020
Applicant/Owner:				State: C	A Sam	npling Point	t:1	.94
Investigator(s): LB, AG		Section,	Township, Ra	nge: Township 71	√ Range	7E / Section	on 14	
Landform (hillslope, terrace, etc.): hillslope		Local rel	ief (concave,	convex, none): con	icave	S	lope (%):	0
Subregion (LRR): C	_ Lat: 38.4	4648962	28	Long: -121.1828	3555	Da	tum: WG	iS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30	% slopes			NWI cl	assification	<sub>i:</sub> <u>n/a</u>		
Are climatic / hydrologic conditions on the site typical for thi	s time of yea	ar? Yes	✓ No_	(If no, expla	in in Remar	ks.)		
Are Vegetation, Soil, or Hydrologys	significantly	disturbed	l? Are '	"Normal Circumstar	nces" prese	nt? Yes_	<b>√</b> N	0
Are Vegetation, Soil, or Hydrology r				eeded, explain any a				
SUMMARY OF FINDINGS – Attach site map				ocations, trans	sects, im	portant f	feature	s, etc.
Hydrophytic Vegetation Present? Yes N	lo	Is	the Sampled	l Area				
Hydric Soil Present? Yes N			ithin a Wetlaı		s	No		
Wetland Hydrology Present? Yes N	lo							
Remarks:								
Upland point to 216 (SW-44)								
VEGETATION – Use scientific names of plan	its.							
Tree Stratum (Plot size:)	Absolute % Cover		ant Indicator s? Status	Dominance Test				
1				Number of Domir That Are OBL, FA			0	(A)
2.								( )
3				Total Number of Species Across A			3	(B)
4				Percent of Domin	ant Specie	s		
Sapling/Shrub Stratum (Plot size:)	0	= Total	Cover	That Are OBL, FA	ACW, or FA	.C:	0	(A/B)
1				Prevalence Inde	x workshe	et:		
2.				Total % Cove			ply by:	
3.						x 1 =	0	_
4				FACW species (	)	x 2 =	0	_
5					)			_
Herb Stratum (Plot size: 1m^2)	0	= Total	Cover	FACU species 4				_
4 Fly can -med	40	Υ	UPL	UPL species			300 360	_ (5)
2. Bro. hor.		Υ	FACU	Column Totals: _	100	_ (A)	300	(B)
3. Hol. vir.	20	Υ	UPL	Prevalence	Index = B/	'A =	3.6	_
4.				Hydrophytic Veg	getation Inc	dicators:		
5				Dominance				
6				Prevalence I				
7				Morphologica	al Adaptatio emarks or o			
8				Problematic				
Woody Vine Stratum (Plot size:)	100	= Total	Cover					
1	_			<sup>1</sup> Indicators of hyd				must
2				be present, unles	s disturbed	or problem	natic.	
	0	= Total	Cover	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum0 % Cove	r of Biotic C	rust	0	Present?	Yes	No	<b>/</b>	
Remarks:				L				

Depth Ma				ox Feature		Loc <sup>2</sup>	Taxture	Domorko
(inches) Color (mois			or (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2	100						SiC	
<del></del>								-
<del></del>								-
Type: C=Concentration, D	-Doplotion F	PM-Podu	and Matrix C	S-Covere	d or Coata	d Sand G	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A						u Sanu G		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	ppiloubic to	un Entito,	Sandy Red		cu.,			Muck (A9) (LRR C)
Histic Epipedon (A2)		-	Stripped M					Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mu		al (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (I	RR C)		Depleted N		,			(Explain in Remarks)
1 cm Muck (A9) (LRR [	<b>D</b> )		_ Redox Dar	k Surface	(F6)			
Depleted Below Dark S	urface (A11)		_ Depleted D	ark Surfac	ce (F7)			
Thick Dark Surface (A1			_ Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (			_ Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed Matrix (S							unless d	listurbed or problematic.
Restrictive Layer (if prese	nt):							
<sub>Type:</sub> <u>Hardpan</u>								
_								
Depth (inches): 2							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No/
Remarks:							Hydric Soil	Present? Yes No
YDROLOGY	tors:						Hydric Soil	Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app	ly)				Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app Salt Crus				Secon	
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur		ired; chec	• •	t (B11)			<u>Seco</u> i	ndary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)			Salt Crus	t (B11) st (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)	n of one requ		Salt Crus Biotic Cru	t (B11) st (B12) nvertebrate	, ,		<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	n of one requ	- - -	Salt Crus Biotic Cru Aquatic Ir	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roo	Secon	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non	n of one requ riverine) ) (Nonriverin	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ast (B12) avertebrate Sulfide O	dor (C1) eres along	•	<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2)	n of one requ riverine) ) (Nonriverin nriverine)	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) est (B12) evertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	4)	Secon V S D C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non	n of one requiriverine) (Nonriverine) (S)	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille	4)	Secor V S S Cots (C3) S S S S S S S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ast (B12) avertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface o plain in Re	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves (B6)  Field Observations:  Surface Water Present?	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes Yes	(B7) No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide O Rhizosphe of Reduce on Reducti k Surface ( plain in Re nches):	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tilled (C7) emarks)	H) H Soils (C6	Secon V S D D D C S D C S S S F	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Sincludes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Primary Indicators (minimur Surface Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: SSEP	(	City/County	Sacrame	nto County	Sampling Date:11/13/2020			
Applicant/Owner:	State: CA Sampling Point: 195							
				<sub>nge:</sub> Township 7N / Rar				
					Slope (%):0			
Subregion (LRR): C	Lat: 38.4649904 Long: -121.1835042 Datum: WGS84							
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				-	ation: n/a			
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	,					
Are Vegetation, Soil, or Hydrology sig					resent? Yes <u>√</u> No			
Are Vegetation, Soil, or Hydrology na			(If ne	eeded, explain any answer	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point le	ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   ✓ No  No  Remarks:			e Sampled in a Wetlar		No			
Point taken within VP-09. Isolated pool on h	nillslope	. Some o	ow pund	ch				
VEGETATION – Use scientific names of plant	s.							
		Dominant		Dominance Test works	sheet:			
Tree Stratum (Plot size:)  1		Species?		Number of Dominant Sp That Are OBL, FACW, of				
2								
3				Total Number of Domina Species Across All Strat				
4				Percent of Dominant Sp	necies			
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW, of				
1				Prevalence Index work	ksheet:			
2.				Total % Cover of:	Multiply by:			
3				OBL species	x 1 =			
4				FACW species	x 2 =			
5				FAC species	x 3 =			
		= Total Co	ver	FACU species	x 4 =			
Herb Stratum (Plot size: 1m^2				UPL species	x 5 =			
1. Pol. mon.	40	Y	FACW	Column Totals:	(A) (B)			
2. Fes. per.		N	FAC		D/A			
3. Cro. set.	5	N	NL_		= B/A =			
4. Epi. bra.	5	N	<u>FAC</u>	Hydrophytic Vegetatio				
5				✓ Dominance Test is				
6				Prevalence Index is				
7					otations <sup>1</sup> (Provide supporting s or on a separate sheet)			
8					ohytic Vegetation <sup>1</sup> (Explain)			
Woody Vine Stratum (Plot size:)		= Total Co	ver					
1				<sup>1</sup> Indicators of hydric soil be present, unless distu	and wetland hydrology must urbed or problematic.			
2		= Total Co		Hydrophytic				
% Bare Ground in Herb Stratum40	of Biotic Cr			Vegetation	s _ ✓ _ No			
Remarks:								

Profile Desc Depth	cription: (Describe Matrix	to the de	pth needed to docu Red	ment the		or confirm	n the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	7.5YR 3/2	96	5YR 4/6	4	С	PL	SiC	
				_	<u> </u>			
-			-	_	-	· ——		
					_			
					-			
1= 0 0	- B B	- Indian DM	Deduced Matrix O	0 0		- 1010	21	See Bl. Barrellister M. Marke
			I=Reduced Matrix, C I LRRs, unless othe			ed Sand G		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
Histosol		Jabic to ai	Sandy Red		icu.,			ick (A9) (LRR C)
	oipedon (A2)		Stripped M	. ,				ick (A10) (LRR B)
	stic (A3)		Loamy Mu		al (F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M	-	. ,			explain in Remarks)
1 cm Mu	ıck (A9) ( <b>LRR D</b> )		✓ Redox Dar	k Surface	(F6)			
	d Below Dark Surfac	ce (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Bleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Type: Cla			<del></del>					
Depth (in	ches): <u>b</u>						Hydric Soil P	resent? Yes <u>√</u> No
Remarks:								
IYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary India	cators (minimum of	one require	ed; check all that app	ly)			Second	ary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	t (B11)			Wa	ter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)			Sec	diment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Ir	vertebrat	es (B13)		Drif	ft Deposits (B3) (Riverine)
Water M	larks (B1) ( <b>Nonrive</b>	rine)	Hydrogen	Sulfide C	dor (C1)		Dra	ainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	✓ Oxidized	Rhizosph	eres along	Living Roo	ots (C3) Dry	y-Season Water Table (C2)
Drift Dep	oosits (B3) ( <b>Nonrive</b>	erine)	Presence	of Reduc	ed Iron (C	4)	Cra	ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Ire	on Reduct	tion in Tille	ed Soils (Co	6) <u>√</u> Sat	turation Visible on Aerial Imagery (C9)
✓ Inundati	on Visible on Aerial	Imagery (E	37) Thin Mucl	k Surface	(C7)		Sha	allow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in R	emarks)		FA	C-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	res	No <u>√</u> Depth (ir	nches):				
Water Table	Present?	Yes	No <u>√</u> Depth (ir	nches):				
Saturation P			No ✓ Depth (ir			l l	land Hydrology	Present? Yes <u>√</u> No
(includes car	oillary fringe)						-	
Describe Re	corded Data (strean	n gauge, m	onitoring well, aerial	photos, p	revious in	spections),	if available:	
Remarks:								

Project/Site: SSEP		City/Cou	<sub>ınty:</sub> Sacrame	ento County	_ Sampling Dat	ie: 11/13	3/2020		
Applicant/Owner:				State: CA	_ Sampling Poi	nt:1	.96		
				, Range: Township 7N / Range 7E / Section 14					
Landform (hillslope, terrace, etc.): bottomland		Local re	elief (concave,	convex, none): none		Slope (%):	2		
Subregion (LRR): C	Lat: 38.4	464934	26	Long: -121.183626	D	atum: WG	iS84		
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30				NWI classifi					
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	<b>√</b> No_	(If no, explain in	Remarks.)				
Are Vegetation, Soil, or Hydrologys	ignificantly	disturbe	d? Are	"Normal Circumstances"	present? Yes	_ ✓ N	ο		
Are Vegetation, Soil, or Hydrologyn	aturally pro	blematio	c? (If no	eeded, explain any answ	ers in Remarks.	)			
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling point l	ocations, transect	s, important	feature	s, etc.		
Hydrophytic Vegetation Present? Yes No	o <u> </u>		s the Sampled		No	<u>,                                    </u>			
Point taken within "swale" feature previou  VEGETATION – Use scientific names of plant		ped by	/ SSHCP						
VEGETATION 636 3016Hallio Hallios of plant		Domin	ant Indicator	Dominance Test wor	kshoot:				
Tree Stratum (Plot size:) 1	% Cover	Specie	es? Status	Number of Dominant S That Are OBL, FACW	Species	0	(A)		
2				Total Number of Domi Species Across All Str		3	(B)		
4		= Total		Percent of Dominant S That Are OBL, FACW		0	(A/B)		
1				Prevalence Index wo	rksheet:				
2.				Total % Cover of:		Itiply by:			
3.				OBL species 0	x 1 = _	0	_		
4				FACW species 0	x 2 = _	0	_		
5					x 3 = _				
1mA2	0	= Total	Cover	FACU species 40			_		
Herb Stratum (Plot size: 1m^2 )  1. Ely. capmed.	40	Υ	UPL		x 5 = _		_		
a Pro hor	40	Y	FACU	Column Totals:1	.00 (A) _	360	(B)		
3. Hol. vir.	20	Y	UPL	Prevalence Inde	x = B/A =	3.6			
4.				Hydrophytic Vegetat					
5.				Dominance Test i	s >50%				
6				Prevalence Index	is ≤3.0 <sup>1</sup>				
7				Morphological Ad					
8				Problematic Hydro	ks or on a separ ophytic Vegetati				
Woody Vine Stratum (Plot size:)	100	= Total	Cover			(	,		
1				<sup>1</sup> Indicators of hydric so be present, unless dis			must		
2.	_	= Total	Cover	Hydrophytic					
% Bare Ground in Herb Stratum0 % Cover	of Biotic C	rust	0	Vegetation Present?	es No	, <u> </u>			
Remarks:				l					

(inches) Color (moist) % Color (moist) % Type Log Testure Remarks  1078 3/2 1000 SIC  SIC  SIC  SIC  SIC  SIC  SIC  SIC	Depth (inches)	Matrix Color (moist)	%	Redox Feature Color (moist) %		002	Texture	Remarks
Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  **Location: PL=Pore Lining, M=Matrix, lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators for Problematic Hydric Soils*:  Histosal (A1)  Histosal (A1)  Stripped Matrix (S6)  Histosal (A1)  Stripped Matrix (S6)  Histosal (A1)  Loamy Mucky Mineral (F1)  Reduced Vertic (F18)				<u>Coloi (Illoist)</u>	<u> iybe i</u>			Remarks
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Histosol (A2)  Stripped Matrix (S6)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Spelted Below Dark Surface (A11)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (F3)  Sandy Mucky Mineral (F6)  Depleted Dark Surface (F6)  Depleted Dark Surface (F7)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Setricitive Layer (if present):  Type: Hardpan  Depth (inches): 2  emarks:   //DROLOGY  //Processing Advance (A2)  Salt Crust (B11)  Water Marks (B1) (Riverine)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Recond from Muck (A9) (LRR C)  Thick Dark Surface (A12)  Saturation (A3)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Initial Clarks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Initial Clarks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C7)  Think Observations:  urlace Vater Present?  Yes No Depth (inches):  Water Tale Present?  Yes No Depth (inches):  Water Tale Reposits (B2) (Riverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (D7)  Think Muck Surface (C7)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Initial Deposits (B3) (Present?  Yes No Depth (inches):  Water Tale Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Journal Stripped Matrix (B1)  Wetland Hydrology Present? Yes No Depth (inches):  Journal Stripped Matrix (B1)  Wetland Hydrology Present? Yes No Popth (inches):  Journal Stripped Matrix (B1)  Wetland Hydrology Present? Yes No Popth (inches):  Journal Stripped Matrix (B1)  Journal Strip	-2	101K 3/2	_ 100			3		
Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Histosoi (A1)								
Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Histosci (A1)								
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoil (A1)								
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoil (A1)					· — — —			
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosoil (A1)					<del></del>			
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Histosol (A2)  Stripped Matrix (S6)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Spelted Below Dark Surface (A11)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (F3)  Sandy Mucky Mineral (F6)  Depleted Dark Surface (F6)  Depleted Dark Surface (F7)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Setricitive Layer (if present):  Type: Hardpan  Depth (inches): 2  emarks:   //DROLOGY  //Processing Advance (A2)  Salt Crust (B11)  Water Marks (B1) (Riverine)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Recond from Muck (A9) (LRR C)  Thick Dark Surface (A12)  Saturation (A3)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Initial Clarks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Initial Clarks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C7)  Think Observations:  urlace Vater Present?  Yes No Depth (inches):  Water Tale Present?  Yes No Depth (inches):  Water Tale Reposits (B2) (Riverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (D7)  Think Muck Surface (C7)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Initial Deposits (B3) (Present?  Yes No Depth (inches):  Water Tale Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Journal Stripped Matrix (B1)  Wetland Hydrology Present? Yes No Depth (inches):  Journal Stripped Matrix (B1)  Wetland Hydrology Present? Yes No Popth (inches):  Journal Stripped Matrix (B1)  Wetland Hydrology Present? Yes No Popth (inches):  Journal Stripped Matrix (B1)  Journal Strip								
Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Histosol (A1)								
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Histosol (A1)  Sandy Redox (S5)  Stripped Matrix (S6)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Spripted Matrix (F2)  Springtified Layers (A5) (LRR C)  Depleted Matrix (F2)  Springtified Layers (A5) (LRR D)  Depleted Matrix (F3)  1 cm Muck (A9) (LRR D)  Depleted Matrix (F3)  1 cm Muck (A9) (LRR D)  Depleted Dark Surface (F6)  Depleted Dark Surface (F7)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Surface Water (A12)  Surface Water (A12)  Surface Water (A11)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1)  Surface Water (A12)  Surface Water (A11)  Salt Crust (B11)  Water Marks (B1) (Riverine)  Water Marks (B1) (Riverine)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Day Salturation (A3)  Water Carks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Water Table (Leves (B9)  Other (Explain in Remarks)  Wetland Hydrology Present? Yes No Depth (inches):  Under Observations:  Urace Water Present? Yes No Depth (inches):  Suffere Soil Cracks (B6)  Wetland Hydrology Present? Yes No Depth (inches):  Suffered Date (Stream gauge, monitoring well, aerial photos, previous inspections), if available:								
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)  Histosol (A1)  Sandy Redox (S6)  Stripped Matrix (S6)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Springted Matrix (F2)  Springted Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Springted Matrix (F2)  Depleted Matrix (F2)  Springted Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F3)  1 cm Muck (A6) (LRR D)  Redox Dark Surface (F6)  Depleted Dark Surface (F6)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Surface Water (A12)  Surface Water (A12)  Surface Water (A11)  Salt Crust (B11)  Water Marks (B1) (Riverine)  Hydric Soil Present? Yes No   Biotic Crust (B12)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recont Iron Reduction in Tilled Soils (C6)  Inudation Visible on Aerial Imagery (C7)  Inidicators (Problematic Hydric Soils*:  Water Marks (B1) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recont Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C7)  Inidicators (D4)  Water Marks (B1) (Nonriverine)  Presence of Reduced Iron (C4)  Shallow Aquitard (D3)  Water Table (A2)  Shallow Aquitard (D3)  Water Table Present? Yes No Depth (inches):  Jurface Table Present? Yes No Depth (inches):  Jurface Table Present? Yes No Depth (inches):  Jetter Table Present? Yes No Depth (inches):  Jetter Table Present? Yes No Depth (inches):  Jetter Table Present? Yes No Depth (inches):  Jetter Table Present? Yes No Depth (inches):  Jetter Table Present? Yes No Depth (inches):	F O. O	Name and the state of the state	nletien DM De	duced Metric CC Course	-l C t l C		21	ion. Di Done Linion M Metric
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S8) 2 cm Muck (A10) (LRR B) Black Histic (A3) 2 cn Muck (A10) (LRR B) Black Histic (A3) 3 cnowly Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) 2 cnowly Mineral (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Werland Hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type: Hardpan Depth (inches): 2 Hydric Soil Present? Yes No  Secondary Indicators (2 or more required) High Water Table (A2) Biotic Crust (B11) Saturation (A3) Definition (A4	• •					and Grain		
Histic Epipedon (A2)			cable to all LN		leu.)			•
Black Histic (A3)		` '						
Hydrogen Sulfide (A4)					SI (E1)			
Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Derpessions (F8)  3 indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present, unless disturbed or problematic.  Sestrictive Layer (if present): Type: Hardpan Depth (inches): 2 Hydric Soil Present? Yes No   Secondary Indicators (Present? Yes No   Secondary Indicators (Present? Yes No   Hydric Soil Present? Reduction in Tilled Soils (C6) Saturation (A3) Aquatic Invertebrates (B13) Dirit Deposits (B2) (Riverine) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation (Visible on Aerial Imagery (C7) In Mater Allars (B7) Water Tsianed Leaves (B9) Other (Explain in Remarks)  Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetland Hydrology Present? Yes No  Depth (inches): Wetl		` '						
Tom Muck (A9) (LRR D)			<b>C</b> )		(12)			
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)			-,		(F6)		Outer (L	Apian in Nomano,
Thick Dark Surface (A12)			ce (A11)		. ,			
Sandy Mucky Mineral (S1)			,	<del></del> :	, ,		<sup>3</sup> Indicators of	hydrophytic vegetation and
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present): Type: Hardpan  Depth (inches): 2  Remarks:    Hydric Soil Present?   Yes No/   N					` ,			
Type: Hardpan  Depth (inches): 2								
Popth (inches): 2	Restrictive	Layer (if present):						
VPROLOGY  Vetland Hydrology Indicators:  Vrimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Salt Crust (B11)  High Water Table (A2)  Sutration (A3)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Water Table (C2)  Trif Deposits (B3)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type: Ha	ardpan		_				
VPROLOGY  Vetland Hydrology Indicators:  Vrimary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Salt Crust (B11)  High Water Table (A2)  Sutration (A3)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Water Table (C2)  Trif Deposits (B3)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (in	nches): 2		_		l i	Hvdric Soil P	resent? Yes No
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Water Marks (B1) (Riverine)  Saturation (A3)  Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Saturation (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Presence of Reduced Iron (C4)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Water Present?  Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No  Wetland Hydrology P	• •			<del>-</del>			,	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B12)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Drift Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Mater-Stained Leaves (B9)  Thin Muck Surface (C7)  Water-Stained Leaves (B9)  Wetland Hydrology Present?  Yes  No  Depth (inches):  Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes  No  Saturation Present? Yes  No  Depth (inches):  Saturation Present? Yes  No  Depth (inches):  Saturation Present? Yes  No  Wetland Hydrology Present? Yes  No  Saturation Present? Yes  No  Saturation Present? Yes  No  Saturation Present? Yes  No  Saturation Present? Yes  No  Saturation Present? Yes  No  Wetland Hydrology Present? Yes  No  Saturation Present? Yes  No  Saturation Present? Yes  No  Saturation Present? Yes  No  Saturation Present? Yes  No  Wetland Hydrology Present? Yes  No  Saturation Present? Yes								
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)								
Surface Water (A1)	-	drology Indicators	:					
High Water Table (A2)	Primary Indi							
	Tillialy Illui	icators (minimum of	one required; c	neck all that apply)			Seconda	ary Indicators (2 or more required)
Water Marks (B1) (Nonriverine)	Surface	Water (A1)	one required; c	••••			Wa	ter Marks (B1) (Riverine)
	Surface	Water (A1)	one required; c	Salt Crust (B11)			Wa	ter Marks (B1) (Riverine)
Drift Deposits (B3) (Nonriverine)	Surface High W	e Water (A1) ater Table (A2)	one required; c	Salt Crust (B11) Biotic Crust (B12)	es (B13)		Wa Sec	ter Marks (B1) ( <b>Riverine</b> ) liment Deposits (B2) ( <b>Riverine</b> )
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9 Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Baturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Yes No _ ✓ Depth (inches): Yes No _ ✓ Depth (inches): Yes Ye	Surface High W	e Water (A1) ater Table (A2) ion (A3)	•	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate	, ,		Wa Sec Drif	ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> )
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Startage Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Startagion Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Startage Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface High W Saturati Water N	Water (A1) ater Table (A2) ion (A3) Marks (B1) ( <b>Nonrive</b>	rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O	dor (C1)	ng Roots	Wa Sec Drif Dra	ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5)  Field Observations:  Surface Water Present? Yes No _ ✓ Depth (inches):  Water Table Present? Yes No _ ✓ Depth (inches):  Saturation Present? Yes No _ ✓ Depth (inches):  Security of the present includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface High W Saturati Water M Sedime	water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No	rine) onriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	dor (C1) eres along Livi	ng Roots	Wa Sec Drif Dra (C3) Dry	ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2)
Field Observations:  Surface Water Present? Yes No _ ✓ _ Depth (inches):  Water Table Present? Yes No _ ✓ Depth (inches):  Saturation Present? Yes No _ ✓ Depth (inches):  Under Table Present? Yes No _ ✓ Depth (inches):  Security Present? Yes No _ ✓ Depth (inches):  Security Present? Yes No _ ✓ Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface High W Saturati Water N Sedime Drift De	water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No	rine) onriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	dor (C1) eres along Livi ed Iron (C4)		Wat Sec Drif Dra (C3) Dry Cra	ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8)
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface High W Saturati Water N Sedime Drift De Surface	water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6)	rine) onriverine) erine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	edor (C1) eres along Livi ed Iron (C4) ion in Tilled S		Wat Sec Drif Dra (C3) Dry Cra Sat	ter Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) t Deposits (B3) ( <b>Riverine</b> ) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C8)
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface High W. Saturati Water N Sedime Drift De Surface Inundat	wwater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial	rine) onriverine) erine) Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface	odor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7)		Wat Sec Drif Dra (C3) Dry Cra Sat Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS allow Aquitard (D3)
Water Table Present? Yes No ✓ _ Depth (inches): Baturation Present? Yes No ✓ _ Depth (inches):	Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S	e Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	rine) onriverine) erine) Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface	odor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7)		Wat Sec Drif Dra (C3) Dry Cra Sat Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS allow Aquitard (D3)
Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (inches): Present? Yes No _ ✓ Depth (inches):	Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S	wwater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	rine) onriverine) erine) Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Re	dor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)		Wat Sec Drif Dra (C3) Dry Cra Sat Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS allow Aquitard (D3)
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface High W. Saturati Water N. Sedime Drift De Surface Inundat Water-S Field Obsel	www.ewww.eww.eww.eww.eww.eww.eww.eww.ew	rine) Dinriverine) erine) Imagery (B7) Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Re	dor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)		Wat Sec Drif Dra (C3) Dry Cra Sat Sha	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (CS allow Aquitard (D3)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface High W. Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table	www.ewww.eww.eww.eww.eww.eww.eww.eww.ew	rine) Donriverine) Prine) Imagery (B7) Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reduct) Depth (inches):	odor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)	oils (C6)	Wat Sec Drif Dra (C3) Dry Cra Sat Sha FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
	Surface High W. Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obsel Surface Water Table Saturation F	www.ewww.eww.eww.eww.eww.eww.eww.eww.ew	rine) Donriverine) Prine) Imagery (B7) Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reduct) Depth (inches):	odor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)	oils (C6)	Wat Sec Drif Dra (C3) Dry Cra Sat Sha FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Remarks:	Surface High W. Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	wwater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) Donriverine) Perine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reduct) ✓ Depth (inches): ✓ Depth (inches):	dor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)	wetland	Wat Sec Drif Dra (C3) Dry Cra Sat Sha FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
ACHARO.	Surface High W. Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	wwater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) Donriverine) Perine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reduct) ✓ Depth (inches): ✓ Depth (inches):	dor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)	wetland	Wat Sec Drif Dra (C3) Dry Cra Sat Sha FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
	Surface High W. Saturati Water N. Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca Describe Re	wwater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) Donriverine) Perine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reduct) ✓ Depth (inches): ✓ Depth (inches):	dor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)	wetland	Wat Sec Drif Dra (C3) Dry Cra Sat Sha FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
	Surface High W. Saturati Water N. Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca Describe Re	wwater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) Donriverine) Perine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reduct) ✓ Depth (inches): ✓ Depth (inches):	dor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)	wetland	Wat Sec Drif Dra (C3) Dry Cra Sat Sha FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
	Surface High W. Saturati Water N. Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	wwater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) Donriverine) Perine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reduct) ✓ Depth (inches): ✓ Depth (inches):	dor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)	wetland	Wat Sec Drif Dra (C3) Dry Cra Sat Sha FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
	Surface High W. Saturati Water N. Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	wwater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	rine) Donriverine) Perine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Thin Muck Surface Other (Explain in Reduct) ✓ Depth (inches): ✓ Depth (inches):	dor (C1) eres along Livi ed Iron (C4) ion in Tilled S (C7) emarks)	wetland	Wat Sec Drif Dra (C3) Dry Cra Sat Sha FAC	ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Landform (hillslope, terrace, etc.): mild hillslope	Project/Site: SSEP		City/County	<sub>y:</sub> <u>Sacrame</u>	nto County	Sampling Date:	11/13/2020				
Landform (hillslope, terrace, etc.): mild hillslope  Local relief (concave, convex, none): CONCAVE  Subregion (LRR): C  Lat: 38.46549479   Long - 121.1845093   Datum: WGS84  Subregion (LRR): C  Lat: 38.46549479   Long - 121.1845093   Datum: WGS84  Are Climatic / hydrologic conditions on the site typical for this time of year? Yes	Applicant/Owner:										
Landform (hillslope, terrace, etc.): mild hillslope  Local relief (concave, convex, none): CONCAVE  Subregion (LRR): C  Lat: 38.46549479   Long - 121.1845093   Datum: WGS84  Subregion (LRR): C  Lat: 38.46549479   Long - 121.1845093   Datum: WGS84  Are Climatic / hydrologic conditions on the site typical for this time of year? Yes	Investigator(s): LB, AG		Section, To	ownship, Ra	nge: Township 7N / Ra	ange 7E / Section	n 14				
Soil Map Unit Name:   Hadselville-Pentz complex, 2 - 30% slopes   Not classification:   WGS84	Landform (hillslope, terrace, etc.): mild hillslope		Local relie	ef (concave,	convex, none): concave	Slo	pe (%): 0.1				
Soil Map Unit Name:   Hadselville-Pentz complex, 2 - 30% slopes   Not classification:   WGS84	Subregion (LRR): C										
Are Climatic / hydrologic conditions on the site typical for this time of year? Yes					-						
Are Vegetation	•			,							
Summary   Summ							√ No				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes V No Within a Wetland? Yes											
No							eatures, etc.				
Hydric Soil Present?   Yes	Hydrophytic Vegetation Present? Yes ✓ N	lo	le ti	ha Samplad	I Aroa						
Vestard Hydrology Present?   Yes   Vestard   No   No   No   No   No   No   No   N				_		/ No					
VEGETATION – Use scientific names of plants.           Iree Stratum (Plot size:		lo		a 11011a1			<b>-</b>				
VEGETATION – Use scientific names of plants.           Tree Stratum (Plot size:)         Absolute % Cover Species? Status (Plot size:)         Dominant Indicator Species (Plant Acro OBL, FACW, or FAC:											
Dominant Indicator	Within VP-12. Wetland at base of upland s	swale									
Dominant Indicator											
Number of Dominant Species   1	VEGETATION – Use scientific names of plan	its.									
Third Are OBL, FACW, or FAC: 2 (A)					Dominance Test worl	ksheet:					
2				-		'	) (4)				
Species Across All Stratum   Plot size:   Description   Prevalence Index worksheet:					mat Are Obl., FACVV,	OFFAC:2	(A)				
Percent of Dominant Species							2 (B)				
Sapling/Shrub Stratum (Plot size:							(D)				
Saping/Shrub Stratum (Plot size:							00 (A/B)				
Total % Cover of: Multiply by:							( ' ' /				
3.							ly by:				
4											
FAC species   x 3 =   FAC species   x 4 =   SPAC species   x 4 =   SPAC species   x 4 =   SPAC species   x 4 =   SPAC species   x 4 =   SPAC species   x 4 =   SPAC species   x 4 =   SPAC species   x 4 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 5 =   SPAC species   x 4 =											
Herb Stratum (Plot size: 1m^2 )   1					*						
1. Ery. cas. 2. Pla. bra. 3. Pol. mon. 4. 5. 6. 7. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.		0	= Total Co	over	FACU species	x 4 =					
2. Pla. bra. 3. Pol. mon. 4	Tions ottatam (Fiot 6126.	25	V	FAC	UPL species	x 5 =					
3. Pol. mon.  4. Hydrophytic Vegetation Indicators:  5. Dominance Test is >50%  6. Prevalence Index is ≤3.0¹  7. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  8. Bare Ground in Herb Stratum 35 % Cover of Biotic Crust 0  10 N FACW Prevalence Index = B/A =			-		Column Totals:	(A)	(B)				
4. Hydrophytic Vegetation Indicators:   5. Dominance Test is >50%   6. Prevalence Index is ≤3.0¹   7. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)   8. Problematic Hydrophytic Vegetation¹ (Explain)   1. Problematic Hydrophytic Vegetation¹ (Explain)   1. 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   8. 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   9. Total Cover Vegetation Present?   1 Yes ✓ No					Prevalence Index	x = B/A =					
5											
6											
7					Prevalence Index	is ≤3.0 <sup>1</sup>					
8											
Woody Vine Stratum (Plot size:)  1	8						,				
1	Moody Vino Stratum (Plot airo:	65	= Total Co	over	1 Toblematic Hydro	priyiic vegetation	(Explain)				
be present, unless disturbed or problematic.    O   = Total Cover   Hydrophytic   Vegetation   Present?   Yes   Ves   No   No					<sup>1</sup> Indicators of hydric so	oil and wetland hyd	Irology must				
					be present, unless dist	turbed or problema	atic.				
% Bare Ground in Herb Stratum 35 % Cover of Biotic Crust 0 Present? Yes ✓ No		0	= Total Co	over							
	% Bare Ground in Herb Stratum 35 % Cove					es ✓ No					
		. 0. 5.0.00			1.000						

	cription: (Describe	to the dept				or confirm	n the absen	nce of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature	S Type <sup>1</sup>	Loc <sup>2</sup>	Toveture	Domostro
(inches)			•	%			<u>Texture</u>	Remarks
0-3	7.5YR 3/1	95	5YR 4/6	5	<u>C</u>	M/PL	SiC	
	-			_				
	-			_	·			
					·			
				_				
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, C	S=Covere	d or Coate	ed Sand Gr	rains. 2	Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ed.)		Indicato	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	lox (S5)			1 cr	m Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M				2 cr	m Muck (A10) (LRR B)
	istic (A3)		Loamy Mu					duced Vertic (F18)
	en Sulfide (A4)		Loamy Gle		(F2)			d Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted N		(FO)		Oth	ner (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> ) d Below Dark Surfac	ο (Λ11)	Redox Dar Depleted D					
	ark Surface (A12)	e (ATT)	Depleted L				3Indicate	ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	,	. 0)			and hydrology must be present,
	Gleyed Matrix (S4)		_	- ( - /				ss disturbed or problematic.
	Layer (if present):							·
Type: Cla	ау							
Depth (in	ches): 3						Hydric S	Soil Present? Yes No
Remarks:								
HYDROLO	GY							
	drology Indicators:							
	cators (minimum of c		l: check all that ann	lv)			Sa	econdary Indicators (2 or more required)
Surface		nie required	Salt Crus					Water Marks (B1) (Riverine)
l —	ater Table (A2)			` '				Sediment Deposits (B2) (Riverine)
Saturati	` '		Biotic Cru Aquatic Ir		o (B12)			Drift Deposits (B3) (Riverine)
	on (A3) 1arks (B1) ( <b>Nonrive</b> r	ino)	Hydroger				·	Drainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b>				, ,	Living Roc		Dry-Season Water Table (C2)
	posits (B3) (Nonrive		Presence		_	_		Crayfish Burrows (C8)
	Soil Cracks (B6)	11110)	Recent Ire					Saturation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7				a 00115 (00		Shallow Aquitard (D3)
	Stained Leaves (B9)	imagory (D7	Other (Ex					FAC-Neutral Test (D5)
Field Obser								
Surface Wat		'es N	No <u>✓</u> Depth (ir	nches):				
Water Table			No <u>√</u> Depth (ir					
Saturation P			No <u>✓</u> Depth (ir				and Hydrol	logy Present? Yes ✓ No
	pillary fringe)	es i	vo <u>v</u> Deptii (ii	iches)		_   •••••	and Hydroi	logy Fresent: Tes NO
	corded Data (stream	gauge, mo	nitoring well, aerial	photos, pr	evious ins	spections),	if available:	
Remarks:								

Project/Site: SSEP	City/County: Sacramento County Sampling Date: _ 11/13/2020							
Applicant/Owner: State: CA Sampling Point:98								
Investigator(s): LB, AG		Section, To	ownship, Ra	<sub>inge:</sub> Township 7N / Ra	ange 7E / Section	n 14		
Landform (hillslope, terrace, etc.): terrace		Local relie	of (concave,	convex, none): concave	Slc	pe (%): 0		
Subregion (LRR): C	Lat: <u>38.46546979</u> Long: <u>-121.184873</u> Datum: <u>WG</u>							
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30	)% slopes			NWI classific	cation: PEM1A -	Freshwater En		
Are climatic / hydrologic conditions on the site typical for thi	is time of yea	ar? Yes	,					
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" p		✓ No		
Are Vegetation, Soil, or Hydrology				eeded, explain any answe				
SUMMARY OF FINDINGS – Attach site map						eatures, etc.		
Hydrophytic Vegetation Present?  Yes   Hydric Soil Present?  Yes   Yes   N			he Sampled					
Wetland Hydrology Present? Yes N Remarks:		witl	hin a Wetlaı	nd? Yes <u>'</u>	/ No	-		
Within VP-13. Low point within SWS								
VEGETATION – Use scientific names of plan								
Tree Stratum (Plot size:)	Absolute % Cover		t Indicator Status	Dominance Test work				
1				Number of Dominant S That Are OBL, FACW,		(A)		
2				Total Number of Domir	nant			
3				Species Across All Stra		(B)		
4				Percent of Dominant S	pecies			
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	over	That Are OBL, FACW,		00 (A/B)		
1				Prevalence Index wor	rksheet:			
2.				Total % Cover of:	Multip	ly by:		
3.				OBL species	x 1 =			
4				FACW species	x 2 =			
5				FAC species				
Herb Stratum (Plot size: 1m^2)	0	= Total Co	over	FACU species				
4 Fle mac	40	Υ	FAC	UPL species				
2. Ery. cas.	10	N	OBL	Column Totals:	(A)	(B)		
3. Fes. per.	20	Υ	FAC	Prevalence Index	< = B/A =			
4. Unk grass	5	N		Hydrophytic Vegetation	on Indicators:			
5				Dominance Test is				
6				Prevalence Index i				
7				Morphological Ada	aptations¹ (Provide ss or on a separate			
8		-		Problematic Hydro		•		
Woody Vine Stratum (Plot size:)	75	= Total Co	over	1 100101114110 1 1 1 4 1 0	priyac vegetation	(Explain)		
1				<sup>1</sup> Indicators of hydric so be present, unless dist	il and wetland hyd urbed or problema	rology must		
2		= Total Co	0.40	Hydrophytic				
% Bare Ground in Herb Stratum25 % Cove	er of Biotic C		0	Vegetation	es			
Remarks:				_I				

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	n the absei	nce of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0-4	0-4 7.5YR 3/2 95 5YR 4/6 5						SiC	
	-				-			
							-	
	-		-					<u> </u>
				-				
1		<del></del>						2
	oncentration, D=Dep					ed Sand G		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all			ed.)			ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red					m Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					m Muck (A10) (LRR B)
	istic (A3)		Loamy Mu					duced Vertic (F18)
	en Sulfide (A4)		Loamy Gle	-	(F2)			d Parent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted N				Oth	ner (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar		. ,			
	d Below Dark Surfac	e (A11)	Depleted D				3	
l —	ark Surface (A12)		✓ Redox Dep		(F8)			tors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				and hydrology must be present,
	Gleyed Matrix (S4)						unles	ss disturbed or problematic.
	Layer (if present):							
Type: Cla								
Depth (in	ches): <u>4</u>						Hydric S	Soil Present? Yes No
Remarks:								
<b>HYDROLO</b>	GY							
Wetland Hy	drology Indicators:							
1	cators (minimum of c		d: chack all that ann	lv)			90	econdary Indicators (2 or more required)
	•	one require		•				· · · · · · · · · · · · · · · · · · ·
Surface	` '		Salt Crus	` '			· · · · · · · · · · · · · · · · · · ·	_ Water Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru					_ Sediment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic Ir	vertebrate	es (B13)			_ Drift Deposits (B3) (Riverine)
Water M	1arks (B1) ( <b>Nonriver</b>	rine)	Hydrogen	Sulfide O	dor (C1)		_	_ Drainage Patterns (B10)
Sedime	nt Deposits (B2) (No	nriverine)	Oxidized	Rhizosphe	eres along	Living Ro	ots (C3)	_ Dry-Season Water Table (C2)
Drift De	posits (B3) (Nonrive	rine)	Presence	of Reduce	ed Iron (C	4)		_ Crayfish Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Ire	n Reduct	ion in Tille	ed Soils (Co	6)	_ Saturation Visible on Aerial Imagery (C9)
✓ Inundati	on Visible on Aerial	Imagery (B	7) Thin Muc	c Surface	(C7)			Shallow Aquitard (D3)
	Stained Leaves (B9)	5 , (	Other (Ex		. ,			FAC-Neutral Test (D5)
Field Obser	· ,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_	
		/	Na / Dandh (in	-1				
Surface Wat			No <u>✓</u> Depth (ir					
Water Table			No <u>✓</u> Depth (ir					
Saturation P		'es	No <u>✓</u> Depth (ir	iches):		Wet	land Hydro	logy Present? Yes / No
(includes cap			:				:f ==:l= = =	
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	pnotos, pi	revious in	spections),	, if available	:
Remarks:								

Project/Site: SSEP	(	City/Count	<sub>y:</sub> <u>Sacrame</u>	nto County	_ Sampling Date:	11/13/2020		
Applicant/Owner:	State: CA Sampling Point: 199							
Investigator(s): LB, AG		Section, T	ownship, Ra	nge: Township 7N / R	ange 7E / Section	n 14		
Landform (hillslope, terrace, etc.): terrace		Local relie	ef (concave,	convex, none): concave	Slo	pe (%): 0		
Subregion (LRR): C	Lat: 38.465708 Long: -121.1852529 Datum: WGS							
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 3	0% slopes			NWI classif	ication: n/a			
Are climatic / hydrologic conditions on the site typical for tl	nis time of yea	ar? Yes	,					
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"		✓ No		
Are Vegetation, Soil, or Hydrology				eeded, explain any answ				
SUMMARY OF FINDINGS – Attach site map						eatures, etc.		
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes   Yes	No		he Sampled		✓ No			
Wetland Hydrology Present? Yes	No					_		
Remarks: Within SW-45. Low spot on terrace between	en hills							
and the second s								
VEGETATION – Use scientific names of pla	nte							
VEGETATION OSC SCIENCING Hames of pla	Absolute	Dominan	t Indicator	Dominance Test wor	ksheet:			
Tree Stratum (Plot size:)	% Cover			Number of Dominant	Species			
1				That Are OBL, FACW	, or FAC:1	(A)		
2				Total Number of Domi		l		
3				Species Across All Str	rata:	L(B)		
4		= Total C		Percent of Dominant S		00 (A/B)		
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW		(A/B)		
1				Prevalence Index wo				
2				Total % Cover of:				
3				OBL species				
4		-		FAC species				
5	0	= Total C	over	FACU species				
Herb Stratum (Plot size:1m^2)				UPL species				
1. Fes. per.		<u>Y</u>	FAC	Column Totals:	(A)	(B)		
2. Hol. vir.		N	UPL	Dunivalan sa la da				
3. Hor. mar.		N	FAC_	Hydrophytic Vegetat	x = B/A =			
4				✓ Dominance Test i				
5 6				Prevalence Index				
7					aptations <sup>1</sup> (Provide	supporting		
8.					ks or on a separate	•		
		= Total C	over	Problematic Hydr	ophytic Vegetation	' (Explain)		
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydric so be present, unless dis				
2		Tatal O		Hydrophytic	<u> </u>			
% Bare Ground in Herb Stratum 40 % Cov		= Total C	over 0	Vegetation	'aa			
	er of Biotic C	นรเ		Present? Y	es No			
Remarks:								

Profile Des Depth	cription: (Describe	to the dep				or contirr	m the absen	ice or indicators.)
(inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5YR 3/2	96	5YR 4/6	4	С	PL	SiC	
<u> </u>	7.511(3)=		<u> </u>	- <del></del>	<u> </u>	<del></del>		
	<del>.</del>		-	_	-		· -	
				_				
-							-	_
							·	
<sup>1</sup> Type: C=C	Concentration, D=De	pletion, RM=	=Reduced Matrix, C	S=Covere	d or Coate	ed Sand G		Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all	LRRs, unless other	erwise not	ed.)		Indicate	ors for Problematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)		Sandy Red	lox (S5)			1 cr	m Muck (A9) (LRR C)
Histic E	Epipedon (A2)		Stripped M	. ,			2 cr	m Muck (A10) (LRR B)
	listic (A3)		Loamy Mu					duced Vertic (F18)
	en Sulfide (A4)		Loamy Gle		(F2)			d Parent Material (TF2)
	ed Layers (A5) (LRR	C)	Depleted N				Oth	er (Explain in Remarks)
	uck (A9) (LRR D)	(Δ44)	Redox Dai					
	ed Below Dark Surfac Park Surface (A12)	ce (A11)	Depleted [				3In diant	are of hydrophytic vegetation and
	Mucky Mineral (S1)		✓ Redox Dep ✓ Vernal Poo		(FO)			ors of hydrophytic vegetation and nd hydrology must be present,
	Gleyed Matrix (S4)		vernari oc	)is (i <i>5)</i>				s disturbed or problematic.
	Layer (if present):						1	o distance of problematic.
Type: CI								
, . <u> </u>	nches): 4						Hydric S	Soil Present? Yes _ / No
Remarks:	icrics). <u>·</u>		<del></del>				Tiyane o	Non-resent: res No
HYDROLO	OGY							
Wetland Hy	drology Indicators	:						
Primary Indi	icators (minimum of	one required	d; check all that app	ıly)			Se	condary Indicators (2 or more required)
Surface	e Water (A1)		Salt Crus	t (B11)				Water Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
Saturat	, ,		Aquatic II		es (B13)			Drift Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b>	rine)	Hydroger					_ Drainage Patterns (B10)
	ent Deposits (B2) (No		· · · · ·			Living Ro		Dry-Season Water Table (C2)
	eposits (B3) (Nonrive		Presence		_	_		Crayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Ir		,	,		Saturation Visible on Aerial Imagery (C9)
·	tion Visible on Aerial	Imagery (B				,		Shallow Aquitard (D3)
	Stained Leaves (B9)	0 , (	Other (E)					FAC-Neutral Test (D5)
Field Obse				•				
Surface Wa	iter Present?	Yes	No <u>✓</u> Depth (ii	nches):				
Water Table			No <u>√</u> Depth (ii					
Saturation F			No <u>✓</u> Depth (ii				land Hydrol	logy Present? Yes / No
	apillary fringe)		ino <u>v</u> Deptii (ii	iciies)		_   ****	iana myaroi	ogy i resent: res No
	ecorded Data (strear	n gauge, mo	onitoring well, aerial	photos, pi	revious ins	spections),	, if available:	
Remarks:								

Project/Site: SSEP	(	City/County	: Sacramer	nto County	_ Sampling Da	ate: 11/13	3/2020
Applicant/Owner:				State: CA	Sampling Po	oint:2	00
Investigator(s): LB, AG		Section, To	wnship, Rar	<sub>nge:</sub> Township 7N / Ra	ange 7E / Sec	ction 14	
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): concave		Slope (%):	0.5
Subregion (LRR): C	Lat: 38.4	16570364		Long: -121.1852055	!	Datum: WG	S84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI classific			
Are climatic / hydrologic conditions on the site typical for this			,				
Are Vegetation, Soil, or Hydrology signs and signs are signs as a sign and signs are signs as a sign are signs as a sign are sign as a sign are sign as a sign are sign as a sign are sign as a sign are sign are sign as a sign are sign as a sign are sign ar				Normal Circumstances"		s <b>√</b> N∈	0
Are Vegetation, Soil, or Hydrology na				eded, explain any answe			
SUMMARY OF FINDINGS – Attach site map s							s, etc.
Hydrophytic Vegetation Present? Yes No							
Hydric Soil Present? Yes No			e Sampled				
Wetland Hydrology Present? Yes No		with	in a Wetlan	id? Yes	No		
Remarks:		I.					
Upland point to 199 (SW-45)							
VEGETATION – Use scientific names of plant	S.						
	Absolute	Dominant	Indicator	Dominance Test worl	ksheet:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant S		_	
1				That Are OBL, FACW,	or FAC:	0	(A)
2				Total Number of Domir		2	
3				Species Across All Stra	ata:	3	(B)
4	_	= Total Co		Percent of Dominant S	pecies	0	(A /D)
Sapling/Shrub Stratum (Plot size:)		- 10181 00	VCI	That Are OBL, FACW,	or FAC:		(A/B)
1				Prevalence Index wor			
2				Total % Cover of:			
3					x 1 =		_
4				FACW species 0  FAC species 0	x 2 = x 3 =		_
5		= Total Co		FACU species 40			_
Herb Stratum (Plot size: 1m^2		= Total Co	vei	UPL species 60			_
1. Ely. capmed.	40	Y	UPL		00 (A)	360	(B)
2. Bro. hor.	40	<u>Y</u>	FACU			2.6	
3. Hol. vir.	20	Y	UPL	Prevalence Index			
4				Hydrophytic Vegetati Dominance Test is		<i>i</i> :	
5				Prevalence Index			
6 7				Morphological Ada		vide suppor	ting
8				data in Remark	s or on a sepa	arate sheet)	
	400	= Total Co	ver	Problematic Hydro	phytic Vegeta	tion <sup>1</sup> (Explai	in)
Woody Vine Stratum (Plot size:)				1			
1				<sup>1</sup> Indicators of hydric so be present, unless dist			nust
2	_			Hydrophytic			
		= Total Co		Vegetation			
	of Biotic Cr	ust	)	Present? Ye	es N	o <u> </u>	
Remarks:							

	cription: (Describe	to the dept			dicator	or confirn	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100	, <u>,</u>				SiC	
	-							
1								
	oncentration, D=Dep					d Sand G		tion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
•	Indicators: (Applic	able to all I			u.)			•
Histoso	pipedon (A2)		Sandy Red Stripped Ma	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Mud		(F1)			d Vertic (F18)
	en Sulfide (A4)		Loamy Gle					rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted M		/			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /	Redox Darl		<del>-</del> 6)			,
	d Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)			
	ark Surface (A12)		Redox Dep		8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Type: Ha								
Depth (in	ches): <u>2</u>						Hydric Soil F	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary Indi	cators (minimum of o	one required	; check all that appl	y)			Second	lary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturati			Aquatic In		(B13)			ft Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen		` ,			ainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized F			Living Ro	· · · · · · · · · · · · · · · · · · ·	/-Season Water Table (C2)
	posits (B3) (Nonrive			of Reduced	_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro	n Reductio	n in Tilled	d Soils (C		turation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7		Surface (C		,		allow Aquitard (D3)
	Stained Leaves (B9)	0 , (		olain in Ren			FA	C-Neutral Test (D5)
Field Obser	vations:							· · ·
Surface Wat	ter Present?	′es N	No <u>✓</u> Depth (in	ches):				
Water Table			No <u>✓</u> Depth (in					
Saturation F			No <u>✓</u> Depth (in				land Hydrology	Present? Yes No
	pillary fringe)	C3 1	vo <u>v</u> Deptii (iii	Ci ies)		_   ""	and riyarology	11636H1: 163 NO
Describe Re	ecorded Data (stream	n gauge, mo	nitoring well, aerial	photos, pre	vious ins	pections),	if available:	
Remarks:								

Project/Site: SSEP		City/Cour	<sub>nty:</sub> <u>Sacrame</u>	nto County	Sampli	ng Date:	11/13	3/2020
Applicant/Owner:				State: CA	Sampli	ng Point:	2	.01
Investigator(s): LB, AG		Section,	Township, Ra	nge: Township 7N ,	/ Range 7E	/ Section	n 14	
Landform (hillslope, terrace, etc.): hillslope		Local rel	lief (concave,	convex, none): none		Slo	pe (%):	2
Subregion (LRR): C	Lat: 38.4	1644624	18	Long: -121.18640	83	Datu	<sub>ım:</sub> WG	S84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 3	30% slopes			NWI clas	ssification: P	EM1A -	Freshw	/ater En
Are climatic / hydrologic conditions on the site typical for t	his time of yea	ar? Yes						
Are Vegetation, Soil, or Hydrology				"Normal Circumstance			✓ N	0
Are Vegetation, Soil, or Hydrology				eeded, explain any ar				
SUMMARY OF FINDINGS – Attach site ma							ature	s, etc.
Hydrophytic Vegetation Present? Yes	No 🗸		41 01	1.4		-		
Hydric Soil Present? Yes			the Sampled		No			
Wetland Hydrology Present? Yes	No		itiiiii a vvetiai	nu: 163_				
Remarks:								
Point taken within linear feature previou	sly mappe	d by S	SHCP					
VEGETATION – Use scientific names of pla	ints.							
Tree Stratum (Plot size:)	Absolute		ant Indicator	Dominance Test v	vorksheet:			
1			s? Status	Number of Domina That Are OBL, FAC		(	)	(A)
2.								(//)
3.				Total Number of Do Species Across All		ξ	3	(B)
4.								( )
		= Total		Percent of Domina That Are OBL, FAC	CW, or FAC:	(	)	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index				
1				Total % Cover			ly by:	
2 3					)			
4				FACW species 0				_
5.					>			_
4 42	0	= Total	Cover	FACU species 40			160	_
Herb Stratum (Plot size: 1m^2	40	V	LIDI	UPL species 60			300	_
1. Ely. capmed.		Y	UPL FACU	Column Totals:	100 (	A)	360	_ (B)
2. Bro. hor. 3. Hol. vir.	20	Y	UPL	Prevalence Ir	ndex = B/A =	<u> </u>	3.6	
3. Hol. vir. 4		<u> </u>		Hydrophytic Vege				
5				Dominance Te				
6.				Prevalence Inc	dex is ≤3.0 <sup>1</sup>			
7				Morphological				
8				Problematic H	narks or on a		,	
Woody Vine Stratum (Blot size)	100	= Total	Cover	Floblematic H	yaropriyiic vi	egetation	(Ехріаі	111)
Woody Vine Stratum (Plot size:)  1				<sup>1</sup> Indicators of hydri	c soil and we	etland hyd	lrology r	nust
2.			<u> </u>	be present, unless				
	_	= Total	Cover	Hydrophytic				
% Bare Ground in Herb Stratum0 % Cov	ver of Biotic C	rust	0	Vegetation Present?	Yes	No	,	
Remarks:	or or blotto o			. 10001111				
Tromano.								
I								

Depth Ma				ox Feature		Loc <sup>2</sup>	Taxture	Domorko
(inches) Color (mois			or (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2	100						SiC	
<del></del>								-
<del></del>								-
Type: C=Concentration, D	-Doplotion F	PM-Podu	and Matrix C	S-Covere	d or Coata	d Sand G	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A						u Sanu G		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	ppiloubic to	un Entito,	Sandy Red		cu.,			Muck (A9) (LRR C)
Histic Epipedon (A2)		-	Stripped M					Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mu		al (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (I	RR C)		Depleted N		,			(Explain in Remarks)
1 cm Muck (A9) (LRR [	<b>D</b> )		_ Redox Dar	k Surface	(F6)			
Depleted Below Dark S	urface (A11)		_ Depleted D	ark Surfac	ce (F7)			
Thick Dark Surface (A1			_ Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (			_ Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed Matrix (S							unless d	listurbed or problematic.
Restrictive Layer (if prese	nt):							
<sub>Type:</sub> <u>Hardpan</u>								
_								
Depth (inches): 2							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No/
Remarks:							Hydric Soil	Present? Yes No
YDROLOGY	tors:						Hydric Soil	Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app	ly)				Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app Salt Crus				Secon	
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur		ired; chec	• •	t (B11)			<u>Seco</u> i	ndary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)			Salt Crus	t (B11) st (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)	n of one requ		Salt Crus Biotic Cru	t (B11) st (B12) nvertebrate	, ,		<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	n of one requ	- - -	Salt Crus Biotic Cru Aquatic Ir	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roo	Secon	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non	n of one requ riverine) ) (Nonriverin	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ast (B12) avertebrate Sulfide O	dor (C1) eres along	•	<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2)	n of one requ riverine) ) (Nonriverin nriverine)	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) est (B12) evertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	4)	Secon V S D C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non	n of one requiriverine) (Nonriverine) (S)	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille	4)	Secor V S S Cots (C3) S S S S S S S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ast (B12) avertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface o plain in Re	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves (B6)  Field Observations:  Surface Water Present?	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes Yes	(B7) No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide O Rhizosphe of Reduce on Reducti k Surface ( plain in Re nches):	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tilled (C7) emarks)	H) H Soils (C6	Secon V S D D D C S D C S S S F	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Sincludes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur Surface Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimur Surface Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Sloughhouse Solar Energy Project	c	city/County:	Sacramer	Sampling Date:	11/13/2020	
Applicant/Owner: D.E. Shaw Renewable Investments				State:	Sampling Point:	203
Investigator(s): LB, AG						
Landform (hillslope, terrace, etc.): hillslope	1	Local relief	(concave, c	convex, none): concave	Slope	e (%): <u>0</u>
Subregion (LRR): C	at: 38.4	6397712		Long: -121.1857778	Datum	: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30% sl	opes			NWI classifica	ation:	
Are climatic / hydrologic conditions on the site typical for this tim	e of yea	r? Yes	/_ No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology signif	icantly c	listurbed?	Are "l	Normal Circumstances" p	resent? Yes <u>√</u>	No
Are Vegetation, Soil, or Hydrology natur	ally prob	olematic?	(If ne	eded, explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sho	wing	sampling	g point lo	ocations, transects,	, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes No		1- 41-	. 011	A		
Hydric Soil Present? Yes No			e Sampled n a Wetlan		No	
Wetland Hydrology Present? Yes No		With	ii a vvetiaii	u: 165		
Remarks:						
Within SW-46. Depression in slight hillslope						
<b>VEGETATION</b> – Use scientific names of plants.						
		Dominant		Dominance Test works	sheet:	
		Species?	-	Number of Dominant Sp That Are OBL, FACW, o		(A)
1				That Are OBL, FACW, C	FAC:2	(A)
3				Total Number of Domina Species Across All Strat		(B)
4					·	(-/
Ocalization (Oharlas (Plateira	0	= Total Cov	/er	Percent of Dominant Sp That Are OBL, FACW, c		(A/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index work	rsheet:	
2				Total % Cover of:		bv:
3.				OBL species		
4				FACW species		
5				FAC species	x 3 =	
1 12		= Total Cov	/er	FACU species	x 4 =	
4 Fee per	30	Υ	FAC	UPL species		
2. Hor. mar.	20		FAC	Column Totals:	(A)	(B)
3. Rum. cri.	5	N	FAC	Prevalence Index	= B/A =	
4. Hol. vir.	2	N	UPL	Hydrophytic Vegetatio		
5.	,			✓ Dominance Test is:	>50%	
6				Prevalence Index is		
7				Morphological Adap	otations <sup>1</sup> (Provide s	upporting
8				Problematic Hydrop	or on a separate s	,
Woody Vine Stratum (Plot size:)	57	= Total Cov	/er	Troblematic Hydrop	Trytic vegetation (	
1				<sup>1</sup> Indicators of hydric soil	and wetland hydro	logy must
2.				be present, unless distu	rbed or problemation	o
		= Total Cov	/er	Hydrophytic		
% Bare Ground in Herb Stratum43 % Cover of E	Biotic Cr	ust 0		Vegetation Present? Yes	s_ <u> </u>	
Remarks:						

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absen	ce of indicators.)
Depth	Matrix			x Feature	es1	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-5	7.5YR 3/2	96	5YR 4/6	4	<u>C</u>	PL	SiC	
	-						-	
						. —		
								<del>_</del>
1		<del></del>						
	oncentration, D=Dep					ed Sand G		Location: PL=Pore Lining, M=Matrix.
_	Indicators: (Applic	able to all			ea.)			ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red					m Muck (A9) (LRR C)
	pipedon (A2)		Stripped M		1 (54)			m Muck (A10) (LRR B)
·	istic (A3)		Loamy Mud Loamy Gle					duced Vertic (F18)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b> (	C)	Loamy Gle	-	( (FZ)			l Parent Material (TF2) er (Explain in Remarks)
	uck (A9) (LRR D)	<b>C</b> )	Depleted iv	. ,	(F6)		Our	ei (Expiaiii iii Neiliaiks)
	d Below Dark Surfac	e (A11)	Depleted D		. ,			
	ark Surface (A12)	(/ ( / ( )	Redox Dep				3Indicate	ors of hydrophytic vegetation and
	Aucky Mineral (S1)		Vernal Poo		/			nd hydrology must be present,
	Gleyed Matrix (S4)		<del></del>	` ,				s disturbed or problematic.
Restrictive	Layer (if present):							·
Type: Cla	ау							
Depth (in	ches): 5						Hydric S	oil Present? Yes ✓ No
Remarks:	, -							
<b>HYDROLO</b>	GY							
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one require	d; check all that app	ly)			Se	condary Indicators (2 or more required)
Surface	•		Salt Crust	•				Water Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
Saturati	, ,		Aquatic Ir		es (B13)			Drift Deposits (B3) (Riverine)
	farks (B1) ( <b>Nonrive</b> r	rine)	Hydrogen					Drainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b>					Living Ro		Dry-Season Water Table (C2)
	posits (B3) (Nonrive	,	Presence		_	_		Crayfish Burrows (C8)
1	Soil Cracks (B6)	iiiie)	Recent Iro		•	•		Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagary (P				a Solis (C	,	Shallow Aquitard (D3)
	Stained Leaves (B9)	iiiageiy (b	· —		. ,			FAC-Neutral Test (D5)
Field Obser	. ,		Other (Ex	piairi iri Ke	emarks)	1		- FAC-Neutral Test (D5)
		/	Nia / Danth /in	-1				
Surface Wat			No ✓ Depth (ir			1		
Water Table			No <u>√</u> Depth (ir			1		
Saturation P	resent?	'es	No <u>✓</u> Depth (ir	iches):		Wet	land Hydrol	ogy Present? Yes No
(includes cap Describe Re	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, pi	revious in:	spections)	. if available:	
		. 99-,		p, p.			,	
Remarks:								
ixemaiks.								

Project/Site: SSEP	(	City/County	: Sacramei	nto County	Sampling Date: 11/13/2020
Applicant/Owner:				State: CA	Sampling Point: 204
Investigator(s): LB, AG	;	Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 14
Landform (hillslope, terrace, etc.): bottomland		Local relief	(concave, o	convex, none): concave	Slope (%):0
Subregion (LRR): C	Lat: 38.4	6297139		Long: -121.1842294	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 309				NWI classific	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	,		
Are Vegetation, Soil, or Hydrologysi					oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map s					
Hydrophytic Vegetation Present? Yes <u>✓</u> No	0	la 4h	- Cll	A	
Hydric Soil Present? Yes No	0		e Sampled in a Wetlan		No
Wetland Hydrology Present? Yes No	ວ		iii a vvetiaii	100	
Remarks:					
Within SW-47. Roadside depression					
VEGETATION – Use scientific names of plant	ts.				
		Dominant		Dominance Test work	sheet:
	% Cover			Number of Dominant Sp	
1				That Are OBL, FACW, o	or FAC: (A)
3.				Total Number of Domin Species Across All Stra	
4					、,
	_	= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)					
1				Prevalence Index work	Ksneet:  Multiply by:
3					x 1 =
4					x 2 =
5					x 3 =
		= Total Co	ver	FACU species	x 4 =
Herb Stratum (Plot size: 1m^2	60	V	FAC	UPL species	x 5 =
1. Fes. per.		Y	FAC FAC	Column Totals:	(A) (B)
2. Hor. mar.				Prevalence Index	= B/A =
3				Hydrophytic Vegetation	
5				✓ Dominance Test is	
6				Prevalence Index is	s ≤3.0 <sup>1</sup>
7					ptations <sup>1</sup> (Provide supporting
8					s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	90	= Total Co	ver	1 Toblematic Hydrop	phytic vegetation (Explain)
1				<sup>1</sup> Indicators of hydric soi	l and wetland hydrology must
2.				be present, unless distu	
		= Total Co	ver	Hydrophytic	
% Bare Ground in Herb Stratum10 % Cover	of Biotic Cr			Vegetation Present? Yes	s/_ No
Remarks:				100	

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absen	ce of indicators.)
Depth	Matrix			x Feature	S1	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	7.5YR 3/1	97	5YR 4/6	3	С	PL	SiC	
				_				
				_				<del></del>
					-	. ———		<del>-</del>
l ———						-		
						-		<del></del>
	oncentration, D=Dep					ed Sand G		Location: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all			ea.)			ers for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red					n Muck (A9) (LRR C)
	pipedon (A2)		Stripped M		1 (54)			n Muck (A10) (LRR B)
	istic (A3)		Loamy Mud Loamy Gle					uced Vertic (F18)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b>	C)	Loanly Gie	•	(FZ)			Parent Material (TF2) er (Explain in Remarks)
	uck (A9) (LRR D)	<b>C</b> )	Depleted iv	, ,	(F6)		Our	er (Explain in Kemarks)
	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)	(	Redox Dep				<sup>3</sup> Indicato	ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		/			nd hydrology must be present,
	Bleyed Matrix (S4)		<del></del>	` ,				s disturbed or problematic.
Restrictive	Layer (if present):							
Type: Cla	ау							
Depth (in	ches): 4						Hydric S	oil Present? Yes No
Remarks:	,							
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of	one require	d; check all that app	ly)			Sec	condary Indicators (2 or more required)
Surface	Water (A1)	•	Salt Crust	(B11)				Water Marks (B1) (Riverine)
I —	ater Table (A2)		Biotic Cru	` '				Sediment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic In		es (B13)			Drift Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen					Drainage Patterns (B10)
	nt Deposits (B2) ( <b>No</b>					Living Ro		Dry-Season Water Table (C2)
·	posits (B3) (Nonrive	,	Presence		-	-		Crayfish Burrows (C8)
1	Soil Cracks (B6)	11110)	Recent Iro		,	•	·	Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (R	·			.a 00115 (0		Shallow Aquitard (D3)
	stained Leaves (B9)	iiiageiy (D	Other (Ex		. ,			FAC-Neutral Test (D5)
Field Obser			Other (EX	piaiii iii ixe	oniaiko)			1 AO-Neutral Test (D3)
		/00	No / Donth (in	oboo).				
Surface Wat			No ✓ Depth (ir					
Water Table			No <u>√</u> Depth (ir					
Saturation P	resent?	'es	No _✓ Depth (in	iches):		Wet	land Hydrolo	ogy Present? Yes <u>/</u> No
(includes cap Describe Re	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, pi	evious in:	spections)	. if available:	
		. 99-,		p, p.			,	
Remarks:								
Kemarks.								

Project/Site: SSEP	(	City/County	: Sacramei	nto County	Sampling Date:11/13/2020
Applicant/Owner:				State: CA	Sampling Point:205
Investigator(s): LB, AG					
					Slope (%):0
Subregion (LRR): C	Lat: 38.4	16283246		Long: -121.1829593	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 309				NWI classific	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	,		
Are Vegetation, Soil, or Hydrology si					oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na			(If ne	eeded, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map s			g point lo	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No	)	lo th	a Campled	Aron	
Hydric Soil Present? Yes No			ie Sampled in a Wetlan		No
Wetland Hydrology Present? Yes No	·	With	III a Wellan	163	
Remarks:					
Within VP-14. Microdepression in grassland	1				
<b>VEGETATION</b> – Use scientific names of plant	s.				
		Dominant		Dominance Test works	sheet:
		Species?		Number of Dominant Sp	
1 2				That Are OBL, FACW, o	or FAC: (A)
3				Total Number of Domina Species Across All Strate	
4					(2)
	_	= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)					( , , )
1				Prevalence Index worl	
2					Multiply by:
3					x 1 = x 2 =
4					x 3 =
5		= Total Co	ver		x 4 =
Herb Stratum (Plot size: 1m^2		_ 10(a) 00	vo.		x 5 =
1. Fes. per.	30	Y	FAC		(A)(B)
2. Hor. mar.	25	Y	FAC		
3. Ery. cas.	25	Y	OBL		= B/A =
4				Hydrophytic Vegetatio	
5				<ul><li>Dominance Test is</li><li>Prevalence Index is</li></ul>	
6					ptations <sup>1</sup> (Provide supporting
7					s or on a separate sheet)
8		= Total Co		Problematic Hydror	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		= Total Co	VEI		
1					l and wetland hydrology must
2				be present, unless distu	irbed or problematic.
	0	= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	rustC	)		s/ No
Remarks:				1	

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	n the abser	nce of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	7.5YR 3/2	95	5YR 4/6	5	С	M/PL	SiC	
	-				-			
					-			
					-		-	<u> </u>
					-			
					-	• •		
1		<del></del>						
	oncentration, D=Dep					ed Sand G		Location: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ted.)		Indicate	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red				1 cı	m Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					m Muck (A10) (LRR B)
Black Hi	istic (A3)		Loamy Mu	-	. ,			duced Vertic (F18)
	en Sulfide (A4)		Loamy Gle	-	. ,			d Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M				Oth	ner (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar		` '			
	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		(F8)			ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				nd hydrology must be present,
	Gleyed Matrix (S4)						unles	s disturbed or problematic.
	Layer (if present):							
Type: Cla	ау							
Depth (in	ches): <u>4</u>						Hydric S	Soil Present? Yes V No
Remarks:	<u> </u>							
HYDROLO	GY							
	drology Indicators:	ı.						
1			d abaab all dhacaa	L.A			0 -	
	cators (minimum of c	one require		•				condary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)				Water Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	st (B12)				Sediment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Ir	vertebrate	es (B13)			_ Drift Deposits (B3) (Riverine)
Water M	Marks (B1) (Nonriver	rine)	Hydrogen	Sulfide O	dor (C1)			Drainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	✓ Oxidized	Rhizosphe	eres along	Living Roo	ots (C3)	Dry-Season Water Table (C2)
Drift Der	posits (B3) (Nonrive	rine)	Presence		_	_		Crayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro			•	· · · · · · · · · · · · · · · · · · ·	Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (R				,a coc (c.	-	Shallow Aquitard (D3)
		illiagery (D	· —		. ,			
	Stained Leaves (B9)		Other (Ex	piain in Ke	emarks)		_	FAC-Neutral Test (D5)
Field Obser			,					
Surface Wat			No <u>✓</u> Depth (ir					
Water Table	Present?	'es	No <u>√</u> Depth (ir	iches):				
Saturation P	resent?	'es	No <u>✓</u> Depth (ir	iches):		Wetl	land Hydrol	ogy Present? Yes No
(includes car	pillary fringe)							
Describe Re	corded Data (stream	n gauge, mo	onitoring well, aerial	photos, pi	revious ins	spections),	if available:	
Remarks:								

Project/Site: SSEP		City/Coun	<sub>ity:</sub> <u>Sacrame</u>	nto County	_ Sampling D	ate: 11/1	3/2020
Applicant/Owner:				State: CA	Sampling P	oint:2	206
Investigator(s): LB, AG		Section, 7	Гownship, Ra	nge: Township 7N / F	Range 7E / Se	ction 14	
Landform (hillslope, terrace, etc.): hillslope		Local reli	ef (concave,	convex, none): none		_ Slope (%)	: 0.1
Subregion (LRR): C	_ Lat: 38.4	1628562	8	Long: -121.182876	1	Datum: WC	3S84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30	% slopes			NWI classi	fication: n/a		
Are climatic / hydrologic conditions on the site typical for thi	s time of yea	ar? Yes	,				
Are Vegetation, Soil, or Hydrologys				"Normal Circumstances		s ✓ N	10
Are Vegetation, Soil, or Hydrology r				eeded, explain any ansv			
SUMMARY OF FINDINGS – Attach site map							etc.
Hydrophytic Vegetation Present? Yes N	lo <u> </u>	Is	the Sampled	I Area			
Hydric Soil Present? Yes N			thin a Wetlar		No	<b>✓</b>	
Wetland Hydrology Present? Yes N	lo						
Remarks:							
Upland point to 205 (VP-14)							
VEGETATION – Use scientific names of plan	its.						
Tree Stratum (Plot size:)	Absolute % Cover		nt Indicator  Status	Dominance Test wo			
1				Number of Dominant That Are OBL, FACW		0	(A)
2.							. ( /
3				Total Number of Dom Species Across All S		3	_ (B)
4				Percent of Dominant	Species		
Conling/Chruh Stratum (Diet size:	0	= Total C	Cover	That Are OBL, FACV	/, or FAC:	0	(A/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index w	orksheet:		
2.				Total % Cover of		fultiply by:	
3.					x 1 =	0	_
4.				FACW species 0	x 2 =	0	_
5					x 3 =		_
Herb Stratum (Plot size 1m^2)	0	= Total C	Cover	FACU species 10			_
Herb Stratum (Plot size: 1m^2 )  1. Ely. capmed.	85	Υ	UPL	· ·	x 5 =	450 490	_ (5)
2. Hol. vir.		N	UPL	Column Totals:	100 (A)	490	(B)
3. Bro. hor.		N	FACU	Prevalence Inde	ex = B/A =	4.9	_
4.				Hydrophytic Vegeta	tion Indicator	s:	
5				Dominance Test			
6				Prevalence Inde			
7				Morphological Addata in Rema	daptations' (Pro rks or on a sep		
8				Problematic Hyd			•
Woody Vine Stratum (Plot size:)		= Total C	Cover				,
1				<sup>1</sup> Indicators of hydric s			must
2				be present, unless di	sturbed or prob	olematic.	
	_	= Total C	Cover	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0	r of Biotic C	rust	0		res N	Vo <u> </u>	
Remarks:				1			

Depth	Matrix		Redox Featur	es			
(inches)	Color (moist)	%	Color (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100			Sid	С	
		<del></del>					
	<del>.</del>						
	-						
		<del></del>					
1- 0.0						21	
			duced Matrix, CS=Cover Rs, unless otherwise no				or Problematic Hydric Soils <sup>3</sup> :
Histoso			Sandy Redox (S5)	,			uck (A9) (LRR C)
	pipedon (A2)		Stripped Matrix (S6)	)	•		uck (A10) ( <b>LRR B</b> )
	listic (A3)		Loamy Mucky Mine		•		d Vertic (F18)
	en Sulfide (A4)		Loamy Gleyed Matr		•		rent Material (TF2)
	ed Layers (A5) ( <b>LRR</b> (	C)	Depleted Matrix (F3		•		Explain in Remarks)
	luck (A9) ( <b>LRR D</b> )	,	Redox Dark Surface	,	•		
	ed Below Dark Surfac	e (A11)	Depleted Dark Surfa	` '			
Thick D	ark Surface (A12)		Redox Depressions	(F8)	;	<sup>3</sup> Indicators o	f hydrophytic vegetation and
Sandy I	Mucky Mineral (S1)		Vernal Pools (F9)			wetland h	ydrology must be present,
Sandy	Gleyed Matrix (S4)					unless dis	turbed or problematic.
	Layer (if present):						
Type: Ha	ardpan		_				
Depth (in	nches): <u>2</u>		_		н	lydric Soil F	Present? Yes No 🔽
Remarks:							
IYDROLO							
-	drology Indicators:					_	
Primary Indi	icators (minimum of o	<u>one required; cl</u>	anak all that annly)				
	e Water (A1)		ieck all that apply)				lary Indicators (2 or more required)
	` '		Salt Crust (B11)			Wa	ater Marks (B1) (Riverine)
High W	ater Table (A2)					Wa	
High W Saturat	ater Table (A2)		Salt Crust (B11)	tes (B13)		Wa	ater Marks (B1) (Riverine)
Saturat	ater Table (A2)	ine)	Salt Crust (B11) Biotic Crust (B12)	, ,		Wa Se Dri	ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
Saturat	ater Table (A2) ion (A3)		Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide (	Odor (C1)	ving Roots ((	Wa Se Dri Dra	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Saturati Water M Sedime	ater Table (A2) ion (A3) Marks (B1) ( <b>Nonriver</b>	nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide (	Odor (C1) neres along Li	ving Roots (	Wa Se Dra Dra C3) Dra	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
Saturati Water M Sedime Drift De	dater Table (A2) ion (A3) Marks (B1) ( <b>Nonriver</b> ent Deposits (B2) ( <b>No</b>	nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph	Odor (C1) neres along Li ced Iron (C4)		Wa Se Dri Dra C3) Dra	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Saturat Water M Sedime Drift De Surface	rater Table (A2) ion (A3) Marks (B1) ( <b>Nonriver</b> ent Deposits (B2) ( <b>No</b> eposits (B3) ( <b>Nonrive</b>	nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu	Odor (C1) neres along Linced Iron (C4) ection in Tilled S		Wa Se Dri Dra Cra Sa	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Saturat Water M Sedime Drift De Surface Inundat	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6)	nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduce	Odor (C1) heres along Linced Iron (C4) ction in Tilled (c) e (C7)		Wa Se Dri Dra C3) Dry Cra Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9
Saturati Water M Sedime Drift De Surface Inundat Water-S	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9)	nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reducement of Recent Iron Reducement Surfacement Odor (C1) heres along Linced Iron (C4) ction in Tilled (c) e (C7)		Wa Se Dri Dra C3) Dry Cra Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)	
Saturati Water M Sedime Drift De Surface Inundat Water-S	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations:	nriverine) rine) Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface Other (Explain in F	Odor (C1) heres along Li ced Iron (C4) ction in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Dri Dra C3) Dry Cra Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obset Surface Wa	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations:	nriverine) rine) Imagery (B7)  Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redur Recent Iron Reduc Thin Muck Surface Other (Explain in F	Odor (C1) neres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Dri Dra C3) Dry Cra Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wa Water Table	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present?  Present?	nriverine) rine) Imagery (B7)  Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Figure 1) Depth (inches):	Odor (C1) heres along Lir ced Iron (C4) ction in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Dri Cra Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-\$ Field Obset Surface Wa Water Table Saturation F	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: iter Present? Present? Y	nriverine) rine) Imagery (B7)  Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redur Recent Iron Reduc Thin Muck Surface Other (Explain in F	Odor (C1) heres along Lir ced Iron (C4) ction in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Dri Cra Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduce Recent Iron Reduce Thin Muck Surface Other (Explain in F	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obset Surface Wa Water Table Saturation F (includes ca Describe Re	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca Describe Re	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: SSEP		City/County	<sub>y:</sub> <u>Sacrame</u>	nto County	_ Sampling Date: _	11/13/2020
Applicant/Owner:				State: CA	_ Sampling Point: _	207
Investigator(s): LB, AG		Section, To	ownship, Ra	<sub>nge:</sub> Township 7N / Ra	ange 7E / Section	14
Landform (hillslope, terrace, etc.): bottomland						
Subregion (LRR): C	Lat: 38.4	46260732		Long: -121.1822996	Datur	n: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30				NWI classific		
Are climatic / hydrologic conditions on the site typical for this			,			
Are Vegetation, Soil, or Hydrologys				'Normal Circumstances"		' No
Are Vegetation, Soil, or Hydrology n				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map						atures, etc.
Hydrophytic Vegetation Present? Yes N	0					
Hydric Soil Present? Yes V			he Sampled		√ Na	
Wetland Hydrology Present? Yes N		Witi	nin a Wetlar	id? Yes	No	
Remarks:						
Within VP-15. Depression in grassland alor	ig fencel	ine. Gra	ding evid	lent on east side o	of fence	
VEGETATION – Use scientific names of plan	ts					
TEGETATION OUG GOIGINING HAMISO OF PIAN	Absolute	Dominan	t Indicator	Dominance Test worl	ksheet:	
Tree Stratum (Plot size:)	% Cover			Number of Dominant S	Species	
1				That Are OBL, FACW,	or FAC: 1	(A)
2				Total Number of Domir	nant	
3				Species Across All Stra	ata: <u>1</u>	(B)
4				Percent of Dominant S		0
Sapling/Shrub Stratum (Plot size:)		= Total Co	over	That Are OBL, FACW,	or FAC: 10	0 (A/B)
1				Prevalence Index wo	rksheet:	
2				Total % Cover of:	Multiply	/ by:
3				OBL species		
4				FACW species		
5			·	FACIL appeies		
Herb Stratum (Plot size:1m^2)		= Total Co	over	FACU species		
1. Pla. bra.	55	ΥΥ	FACW	Column Totals:		
2. Ele. mac.	15	N	OBL	Column Totalo.	(//)	(D)
3. Fes. per.	15	N	FAC		x = B/A =	
4. <u>Ery. cas.</u>	5	N	OBL	Hydrophytic Vegetati		
5				<u>✓</u> Dominance Test is		
6				Prevalence Index	is ≤3.0° aptations¹ (Provide :	aupporting
7					ks or on a separate	
8		= Total Co		Problematic Hydro	ophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size:)		= Total C	ovei			
1				<sup>1</sup> Indicators of hydric so		
2				be present, unless dist	urbed or problemat	IC.
	0	= Total Co	over	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 10 % Cover	of Biotic C	rust	0		es <u>/</u> No	
Remarks:				1		

	cription: (Describe	to the dept				or confirm	n the absen	ce of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	S Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	7.5YR 3/2		5YR 4/6	7 70 70 7	C	M/PL	SiC	IVEIIIdINS
0-5	7.51K 3/2	95	31K 4/0			IVI/PL	SIC	<del> </del>
				_				
				_				
					· <del></del>			
l ———					·			<del>-</del>
					·			
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, C	S=Covere	d or Coate	ed Sand Gr	rains. <sup>2</sup> I	Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all I	RRs, unless other	rwise not	ed.)		Indicato	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	I (A1)		Sandy Red	lox (S5)			1 cr	m Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					m Muck (A10) (LRR B)
	istic (A3)		Loamy Mu					duced Vertic (F18)
	en Sulfide (A4)	•	Loamy Gle		(F2)			d Parent Material (TF2)
	d Layers (A5) ( <b>LRR</b> uck (A9) ( <b>LRR D</b> )	<b>L</b> )	Depleted M _ Redox Dar		(E6)		Oth	er (Explain in Remarks)
	d Below Dark Surfac	Δ (Δ11)	Depleted D		. ,			
-	ark Surface (A12)	O (7111)	Redox Dep				3Indicate	ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		,			nd hydrology must be present,
-	Gleyed Matrix (S4)		<del></del>	. ,				s disturbed or problematic.
Restrictive	Layer (if present):							
Type: Cla	ay							
Depth (in	ches): <u>5</u>						Hydric S	Soil Present? Yes <u>/</u> No
Remarks:								
HYDROLO	ACV							
	drology Indicators:						0	
	cators (minimum of o	ne required						condary Indicators (2 or more required)
Surface	` '		Salt Crus	` '				Water Marks (B1) (Riverine)
_ ~	ater Table (A2)		Biotic Cru					Sediment Deposits (B2) (Riverine)
Saturati			Aquatic Ir					_ Drift Deposits (B3) (Riverine)
	Marks (B1) (Nonriver		Hydrogen		. ,			Drainage Patterns (B10)
	nt Deposits (B2) (No		· <del></del>		•	•		Dry-Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence					Crayfish Burrows (C8)
	Soil Cracks (B6)	l	Recent Ir			a Solis (Ce		Saturation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	imagery (B <i>1</i>						Shallow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	piain in Re	emarks)	1		FAC-Neutral Test (D5)
Field Obser		,						
Surface Wat			lo <u>√</u> Depth (ir					
Water Table			lo <u>√</u> Depth (ir					
Saturation P		'es N	lo <u>√</u> Depth (ir	nches):		Wetl	and Hydrol	ogy Present? Yes No
	pillary fringe) corded Data (stream	n gauge, mo	nitoring well, aerial	photos, pr	evious ins	pections).	if available:	
	(*****	3 - 3 - ,	3 , , , , ,	,,		,,		
Remarks:								
rtemants.								

Project/Site: SSEP	<sub>r:</sub> <u>Sacramer</u>	nto County	Sampling Da	ate: 11/13	3/2020		
Applicant/Owner:				State: CA	Sampling Po	oint: 2	.08
Investigator(s): LB, AG		wnship, Rar	nge: Township 7N / Ra	nge 7E / Se	ction 14		
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): none		Slope (%):	0
Subregion (LRR): C	Lat: 38.4	6261606		Long: -121.1823965		Datum: WG	iS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI classific			
Are climatic / hydrologic conditions on the site typical for this			,				
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances" p		s ✓ N	0
Are Vegetation, Soil, or Hydrology na				eded, explain any answe			
SUMMARY OF FINDINGS – Attach site map s							s, etc.
Hartenberg Verstein Brenning	· ·						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			e Sampled				
Wetland Hydrology Present? Yes No		with	in a Wetlan	id? Yes	No		
Remarks:							
Upland point to 207 (VP-15)							
VECETATION Lies scientific names of plant	•						
VEGETATION – Use scientific names of plant		Dominont	Indicator	Deminence Test week	rah a atı		
	Absolute % Cover			Dominance Test work  Number of Dominant Sp			
1				That Are OBL, FACW, of		0	(A)
2				Total Number of Domin	ant		
3				Species Across All Stra		3	(B)
4	_			Percent of Dominant Sp	pecies		
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, o	or FAC:	0	(A/B)
1				Prevalence Index wor	ksheet:		
2.				Total % Cover of:	M	ultiply by:	
3				OBL species 0	x 1 =	0	_
4				FACW species 0			_
5					x 3 =		_
Herb Stratum (Plot size: 1m^2 )	0	= Total Co	ver	FACU species 10			_
1. Ely. capmed.	85	Υ	UPL	UPL species 90 Column Totals: 10	x 5 = 00 (A)	490	— (B)
2. Hol. vir.	5	N	UPL	Column Totals	(A)		_ (b)
3. Bro. hor.	10	N	FACU	Prevalence Index	= B/A =	4.9	_
4				Hydrophytic Vegetation		s:	
5				Dominance Test is			
6				Prevalence Index is			et e e
7				Morphological Ada data in Remarks			
8		= Total Co		Problematic Hydro	phytic Vegeta	ition¹ (Expla	in)
Woody Vine Stratum (Plot size:)	100	= Total Co	ver				
1				<sup>1</sup> Indicators of hydric soi			must
2				be present, unless distu	arbea or prob	iematic.	
	0	= Total Co	ver	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0	of Biotic Cr	ust(	)		s N	lo <u> </u>	
Remarks:				L			

Depth Ma				ox Feature		Loc <sup>2</sup>	Taxture	Domorko
(inches) Color (mois			or (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2	100						SiC	
<del></del>								-
<del></del>								-
Type: C=Concentration, D	-Doplotion F	PM-Podu	and Matrix C	S-Covere	d or Coata	d Sand G	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A						u Sanu G		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	ppiloubic to	un Entito,	Sandy Red		cu.,			Muck (A9) (LRR C)
Histic Epipedon (A2)		-	Stripped M					Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mu		al (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (I	RR C)		Depleted N		,			(Explain in Remarks)
1 cm Muck (A9) (LRR [	<b>D</b> )		_ Redox Dar	k Surface	(F6)			
Depleted Below Dark S	urface (A11)		_ Depleted D	ark Surfac	ce (F7)			
Thick Dark Surface (A1			_ Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (			_ Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed Matrix (S							unless d	listurbed or problematic.
Restrictive Layer (if prese	nt):							
<sub>Type:</sub> <u>Hardpan</u>								
_								
Depth (inches): 2							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No/
Remarks:							Hydric Soil	Present? Yes No
YDROLOGY	tors:						Hydric Soil	Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app	ly)				Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app Salt Crus				Secon	
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur		ired; chec	• •	t (B11)			<u>Seco</u> i	ndary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)			Salt Crus	t (B11) st (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)	n of one requ		Salt Crus Biotic Cru	t (B11) st (B12) nvertebrate	, ,		<u>Secon</u> V S S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	n of one requ	- - -	Salt Crus Biotic Cru Aquatic Ir	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roo	Secon	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non	n of one requ riverine) ) (Nonriverin	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ast (B12) avertebrate Sulfide O	dor (C1) eres along	•	<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2)	n of one requ riverine) ) (Nonriverin nriverine)	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) est (B12) evertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	4)	Secon V S D C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non	n of one requiriverine) (Nonriverine) (S)	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille	4)	Secor V S S Cots (C3) S S S S S S S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon V S D D D D D _	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon V S D D D D D _	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ast (B12) avertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface o plain in Re	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon V S D D D D D _	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves (B6)  Field Observations:  Surface Water Present?	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes Yes	(B7) No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide O Rhizosphe of Reduce on Reducti k Surface ( plain in Re nches):	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tilled (C7) emarks)	H) H Soils (C6	Secon V S D D D C S D C S S S F	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Sincludes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur Surface Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimur Surface Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: SSEP	(	City/County	: Sacramer	nto County	Sampling Da	ate: 11/13	3/2020
Applicant/Owner:		State: CA	Sampling Po	int:2	10		
Investigator(s): LB, AG		wnship, Rar	nge: Township 7N / Ra	nge 7E / Sec	tion 14		
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): none		Slope (%):	0
Subregion (LRR): C	Lat: 38.4	6292486		Long: -121.1822016	1	<sub>Datum:</sub> WG	S84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	6 slopes			NWI classific	ation: n/a		
Are climatic / hydrologic conditions on the site typical for this			,				
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances" p		s ✓ N	0
Are Vegetation, Soil, or Hydrology na				eded, explain any answe			
SUMMARY OF FINDINGS – Attach site map s							s, etc.
Hadarahafa Vanatafaa Baasa 10							
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			e Sampled				
Wetland Hydrology Present? Yes No		with	in a Wetlan	id? Yes	No	<del>/</del>	
Remarks:							
Upland point to 235 (SW-51)							
VEGETATION – Use scientific names of plant							
<u> </u>		Dominant	Indicator	Deminence Test work	rah a atı		
	Absolute % Cover			Dominance Test work  Number of Dominant Sp			
1				That Are OBL, FACW, of		0	(A)
2				Total Number of Domin	ant		
3				Species Across All Stra		3	(B)
4	_			Percent of Dominant Sp	pecies		
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW, o	or FAC:	0	(A/B)
1				Prevalence Index wor	ksheet:		
2.				Total % Cover of:	Mı	ultiply by:	_
3				OBL species 0	x 1 = _	0	_
4				FACW species 0			_
5					x 3 =		_
Herb Stratum (Plot size: 1m^2	0	= Total Co	ver	FACU species 10			_
1. Ely. capmed.	85	Υ	UPL	UPL species 90 Column Totals: 10	x 5 = _	450 490	— (D)
2. Hol. vir.	5	N	UPL	Column Totals:	<u>)0         (</u> A)	430	_ (B)
3. Bro. hor.	10	N	FACU	Prevalence Index	= B/A =	4.9	_
4				Hydrophytic Vegetation		:	
5				Dominance Test is			
6				Prevalence Index is			
7				Morphological Ada data in Remarks			ting
8				Problematic Hydro	•		in)
Woody Vine Stratum (Plot size:)		= Total Co	ver				
1				<sup>1</sup> Indicators of hydric soi			nust
2				be present, unless distu	arbed or proble	ematic.	
	0	= Total Co	ver	Hydrophytic			
% Bare Ground in Herb Stratum 0	of Biotic Cr	ust(	)	Vegetation Present? Yes	s N	o <u> </u>	
Remarks:				L			

Profile Desc	ription: (Describ	e to the de	pth need	ed to docur	nent the i	indicator	or confirm	n the absence of indicators.)
Depth	Matrix				x Feature	S		
(inches)	Color (moist)	%	Cold	or (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-2	10YR 3/2	100						SiC
-	-		· ——		· <del></del>			
	-	_	·		. ———			
<sup>1</sup> Type: C=Co	oncentration, D=De	epletion, RN	/I=Reduce	ed Matrix, CS	S=Covere	d or Coate	ed Sand Gr	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Appl	icable to a	II LRRs, ι	ınless other	wise not	ed.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)			Sandy Redo	ox (S5)			1 cm Muck (A9) (LRR C)
	pipedon (A2)		_	Stripped Ma				2 cm Muck (A10) ( <b>LRR B</b> )
Black His	stic (A3)			Loamy Muc	ky Minera	l (F1)		Reduced Vertic (F18)
Hydroge	n Sulfide (A4)			Loamy Gley	ed Matrix	(F2)		Red Parent Material (TF2)
Stratified	l Layers (A5) ( <b>LRF</b>	<b>C</b> )		Depleted M	atrix (F3)			Other (Explain in Remarks)
1 cm Mu	ck (A9) ( <b>LRR D</b> )			Redox Dark				
Depleted	Below Dark Surfa	ace (A11)		Depleted Da				
	rk Surface (A12)			Redox Depi	•	F8)		<sup>3</sup> Indicators of hydrophytic vegetation and
	lucky Mineral (S1)			Vernal Pool	s (F9)			wetland hydrology must be present,
	leyed Matrix (S4)							unless disturbed or problematic.
	_ayer (if present):							
Type: Ha								
Depth (inc	ches): <u>2</u>							Hydric Soil Present? Yes No
Remarks:								•
HYDROLO								
Wetland Hyd	drology Indicator	s:						
Primary Indic	ators (minimum of	one requir	ed; check	all that appl	y)			Secondary Indicators (2 or more required)
Surface	Water (A1)			_ Salt Crust	(B11)			Water Marks (B1) (Riverine)
High Wa	ter Table (A2)			Biotic Crus	st (B12)			Sediment Deposits (B2) (Riverine)
Saturation			_	_ Aquatic In	vertebrate	es (B13)		Drift Deposits (B3) (Riverine)
Water M	arks (B1) (Nonriv	erine)		_ Hydrogen	Sulfide O	dor (C1)		Drainage Patterns (B10)
	nt Deposits (B2) (N						Living Roo	ots (C3) Dry-Season Water Table (C2)
	oosits (B3) (Nonriv			Presence		_	_	Crayfish Burrows (C8)
	Soil Cracks (B6)	,		Recent Iro		,	•	
	on Visible on Aeria	I Imagery (		Thin Muck			(	Shallow Aquitard (D3)
· <del></del>	tained Leaves (B9			_ Other (Exp				FAC-Neutral Test (D5)
Field Observ		<u>'</u>		_ 0 11.0. (2.4)				
Surface Wate		Voc	No. 1	Donth (in	abaa):			
				Depth (in				
Water Table				_ Depth (in				
Saturation Pr		Yes	No <u>✓</u>	_ Depth (in	ches):		Wetla	and Hydrology Present? Yes No
(includes cap Describe Red	onded Data (strea	m gauge n	nonitoring	well aerial	ohotos pr	evious ins	spections)	if available:
Describe Nec	oraca Data (otrea	m gaago, n	ionitoning	won, acriai į	5110100, pi	CVIOGO IIIC	pections),	ii available.
Danis								
Remarks:								

Project/Site: SSEP	: Sacramer	nto County	Sampling Da	te: <u>11/13</u>	3/2020		
Applicant/Owner:	State: CA	Sampling Po	int:2	15			
			<sub>nge:</sub> Township 7N / Ra				
				convex, none): concave			0
Subregion (LRR): C	Lat: 38.4	16499744		Long: -121.1825792		oatum: WG	S84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI classific			
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	,				
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances" p		<b>√</b> No	o
Are Vegetation, Soil, or Hydrology na			(If ne	eded, explain any answe	ers in Remarks	.)	
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point lo	ocations, transects	s, importan	t feature:	s, etc.
Hydrophytic Vegetation Present? Yes No	V	le th	e Sampled	Агеа			
Hydric Soil Present? Yes No			in a Wetlan		No_v	/	
Wetland Hydrology Present? Yes No			a rrotian				
Remarks:							
Upland point to 192 (SW-43)							
VEGETATION – Use scientific names of plants	s.						
	Absolute			Dominance Test work	sheet:		
Tree Stratum (Plot size:)  1		Species?		Number of Dominant S That Are OBL, FACW,		0	(Δ)
2							(A)
3				Total Number of Domin Species Across All Stra		1	(B)
4.							(-)
	_	= Total Co		Percent of Dominant Sport That Are OBL, FACW,	pecies or FAC:	0	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wor			
1				Total % Cover of:		ultiply by:	
3					x 1 = _		
4				FACW species 0			_
5					x 3 =		_
		= Total Co	ver	FACU species 70	x 4 =	280	_
Herb Stratum (Plot size: 1m^2				UPL species 10	x 5 = _	50	_
1. Bro. hor.		<u>Y</u>	FACU	Column Totals:10	00 (A)	360	_ (B)
2. <u>Bri. min.</u> 3. Hol. vir.	<u>5</u> 10	N	FAC UPL	Prevalence Index	r – Β/Δ –	3.6	
4 Foc por	5	N	FAC	Hydrophytic Vegetation			_
5			TAC	Dominance Test is			
6				Prevalence Index i			
7				Morphological Ada	ptations1 (Prov		ting
8.				data in Remark	•	•	
		= Total Co	ver	Problematic Hydro	phytic Vegetat	ion' (Explai	in)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	il and watland	hudrala au r	
1				be present, unless distr			iiusi
2	_	= Total Co		Hydrophytic			
10 00				Vegetation		,	
	of Biotic Cr	rust	<u>,                                    </u>	Present? Ye	esNo	· <u> </u>	
Remarks:							

· -	Matrix	0/	Color /	Redox			Loc <sup>2</sup>	Tavt	Domorles
(inches) Color (r			Color (mo	IST)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2		100						SiC	
<del></del>					-			-	
Type: C=Concentration	D=Denle	etion RM=F	Reduced Ma	trix CS	=Covered	d or Coate	d Sand G	rains <sup>2</sup> l o	ocation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:							a cana c		s for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	` ' '			y Redo		,			Muck (A9) (LRR C)
Histic Epipedon (A2)	)				trix (S6)				Muck (A10) ( <b>LRR B</b> )
Black Histic (A3)					ky Minera	I (F1)			ced Vertic (F18)
Hydrogen Sulfide (A	4)		Loan	y Gley	ed Matrix	(F2)		Red F	Parent Material (TF2)
Stratified Layers (A5	, ,	)	Depl	eted Ma	atrix (F3)			Other	r (Explain in Remarks)
1 cm Muck (A9) ( <b>LR</b>	,		· · · · · · · · · · · · · · · · · · ·		Surface	. ,			
Depleted Below Dar		(A11)			rk Surfac			9	
Thick Dark Surface					essions (	F8)			s of hydrophytic vegetation and
<ul><li>Sandy Mucky Miner</li><li>Sandy Gleyed Matri</li></ul>			Vern	al Pools	s (F9)				d hydrology must be present,
Restrictive Layer (if pre	, ,							unless	disturbed or problematic.
resulctive Layer (ii pre	ssem).								
Tuna. Hardnan									
Type: Hardpan								l	"ID 40 Y N 1
Depth (inches): 2			<u> </u>					Hydric So	il Present? Yes No <u>√</u>
Depth (inches): 2								Hydric Soi	il Present? Yes No <u>√</u>
Depth (inches): 2 Remarks:			_					Hydric Soi	il Present? Yes No _✓
Depth (inches): 2 Remarks:  YDROLOGY	icators:		_					Hydric Soi	il Present? Yes No✓
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind		ne required;	check all th	at apply	·)				ondary Indicators (2 or more required)
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind		ne required;		at apply	•			Seco	
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind  Primary Indicators (minin	num of or	ne required;	Salt		(B11)			Seco	ondary Indicators (2 or more required)
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind  Primary Indicators (minir  Surface Water (A1)	num of or	ne required;	Salt	Crust (	(B11)	s (B13)		Secc.	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind  Primary Indicators (minir  Surface Water (A1)  High Water Table (A	num of or		Salt Biot Aqu	Crust ( ic Crus atic Inv	(B11) t (B12)	, ,		Seco	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind  Primary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)	num of on 2) Ionriverin	ne)	Salt Biot Aqu Hyc	Crust (ic Crustatic Inverse)	(B11) t (B12) ertebrate Sulfide O	, ,	Living Roo	Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind  Primary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1) (N	num of on 2) Jonriverii B2) (Non	ne) riverine)	Salt Biot Aqu Hyc Oxi	Crust ( ic Crus atic Inv rogen S dized R	(B11) t (B12) ertebrate Sulfide Oohizosphe	dor (C1)	_	<u>Secc</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits (	num of on 2) Ionriverii B2) (Non Nonriveri	ne) riverine)	Salt Biot Aqu Hyo Oxid	Crust (ic Crust attic Involved) Irogen Stringed Researce contents	(B11) t (B12) ertebrate Sulfide Oe hizosphe	dor (C1) res along	4)	<u>Secc</u>	windary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind  Primary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1) (N  Sediment Deposits (A)  Drift Deposits (B3) (B3)	num of or 2) lonriverii B2) (Non Nonriveri (B6)	ne) riverine) ne)	Salt Salt Sign Sign Sign Sign Sign Sign Sign Sign	Crust (ic Crust attic Involved Rized Rized Risence continued Ricent Iron	(B11) t (B12) ertebrate Sulfide Oe hizosphe	dor (C1) res along ed Iron (C4 on in Tilled	4)	Secc	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits (B3) (I Drift Deposits (B3) (I Surface Soil Cracks	num of on .2) Ionriverii B2) (Non Nonriverii (B6) n Aerial In	ne) riverine) ne)	Salt Salt Siot Aqu Hyc Oxi Pre Rec Thir	Crust (ic Crus atic Inverse) atic Inverse) atic Inverse Colored Researce Content Iron	(B11) t (B12) ertebrate Sulfide Och hizosphe of Reduce	dor (C1) res along ed Iron (C4 on in Tilleo	4)	Seccion Seccio	ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9
Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits (B3) (I Surface Soil Cracks Inundation Visible of	num of on .2) Ionriverii B2) (Non Nonriverii (B6) n Aerial In	ne) riverine) ne)	Salt Salt Siot Aqu Hyc Oxi Pre Rec Thir	Crust (ic Crus atic Inverse) atic Inverse) atic Inverse Colored Researce Content Iron	(B11) t (B12) ertebrate Sulfide Or hizosphe of Reduce n Reducti Surface (	dor (C1) res along ed Iron (C4 on in Tilleo	4)	Seccion Seccio	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind  Primary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1) (N  Sediment Deposits (B1)  Drift Deposits (B3) (I  Surface Soil Cracks  Inundation Visible of  Water-Stained Leav	num of or (2) Ionriverii (B2) (Non Nonriveri (B6) n Aerial In es (B9)	ne) riverine) ne) nagery (B7)	Salt Salt Siot Aqu Hyc Oxi Pre Rec Thir	Crust (ic Crust) attic Involved Rogen School	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce n Reducti Surface ( lain in Re	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	d Soils (Ce	Seccion Seccio	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits (B3) (I Drift Deposits (B3) (I Surface Soil Cracks Inundation Visible of Water-Stained Leav Field Observations: Surface Water Present?	num of on (2) Ionriverin B2) (Non Nonriverin (B6) n Aerial In es (B9)	ne) riverine) ne) nagery (B7)	Salt Salt Sion Aqu Hyce Oxi Pre Rec Thin Oth	Crust (ic Crust) (ic Crust) (ic Crust) (irogen Street Rence content Iron Muck (Exp	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce n Reducti Surface ( lain in Re	dor (C1) res along d Iron (C4 on in Tilled C7) marks)	d Soils (Ce	Seccion Seccio	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (inches): 2  Remarks:  YDROLOGY  Wetland Hydrology Ind  Primary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1) (N  Sediment Deposits (B3) (I  Drift Deposits (B3) (I  Surface Soil Cracks  Inundation Visible on  Water-Stained Leav  Field Observations:  Surface Water Present?  Water Table Present?	num of on (2) Ionriverin (B2) (Non Nonriverin (B6) (A) (B6) (A) (A) (B9) Ye Ye	ne) riverine) ne) nagery (B7) es Ne	Salt Biot Aqu Hyc Oxi Pre Rec Thin Oth	Crust ( ic Crust ( ic Crust ( ic Crust ( in	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce on Reducti Surface ( lain in Re	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	H) H Soils (Ce	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits (B3) (I Surface Soil Cracks Inundation Visible of Water-Stained Leav Field Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe	num of on (2) Ionriverin B2) (Non Nonriverin (B6) n Aerial In es (B9) Ye Ye	ne) riverine) ne) nagery (B7) ss Ness	Salt Biot Aqu Hyc Oxi Pre Rec Thin Oth Oth O	Crust (ic Crust (ic Crust (ic Crust (inc))) atticed R (inc) at	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce of Reducti Surface (lain in Reducti ches):	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	d Soils (Ce	ots (C3)	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits (B3) (I Drift Deposits (B3) (I Surface Soil Cracks Inundation Visible of Water-Stained Leav Field Observations: Surface Water Present?	num of on (2) Ionriverin B2) (Non Nonriverin (B6) n Aerial In es (B9) Ye Ye	ne) riverine) ne) nagery (B7) ss Ness	Salt Biot Aqu Hyc Oxi Pre Rec Thin Oth Oth O	Crust (ic Crust (ic Crust (ic Crust (inc))) atticed R (inc) at	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce of Reducti Surface (lain in Reducti ches):	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	d Soils (Ce	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits (B3) (I Surface Soil Cracks Inundation Visible of Water-Stained Leav Field Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe	num of on (2) Ionriverin B2) (Non Nonriverin (B6) n Aerial In es (B9) Ye Ye	ne) riverine) ne) nagery (B7) ss Ness	Salt Biot Aqu Hyc Oxi Pre Rec Thin Oth Oth O	Crust (ic Crust (ic Crust (ic Crust (inc))) atticed R (inc) at	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce of Reducti Surface (lain in Reducti ches):	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	d Soils (Ce	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) (N Sediment Deposits (B3) (I Surface Soil Cracks Inundation Visible of Water-Stained Leav Field Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe	num of on (2) Ionriverin B2) (Non Nonriverin (B6) n Aerial In es (B9) Ye Ye	ne) riverine) ne) nagery (B7) ss Ness	Salt Biot Aqu Hyc Oxi Pre Rec Thin Oth Oth O	Crust (ic Crust (ic Crust (ic Crust (inc))) atticed R (inc) at	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce of Reducti Surface (lain in Reducti ches):	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	d Soils (Ce	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (mining) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) (N) Sediment Deposits (B3) (I) Drift Deposits (B3) (I) Surface Soil Cracks Inundation Visible of Water-Stained Leav Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Includes capillary fringe Describe Recorded Data	num of on (2) Ionriverin B2) (Non Nonriverin (B6) n Aerial In es (B9) Ye Ye	ne) riverine) ne) nagery (B7) ss Ness	Salt Biot Aqu Hyc Oxi Pre Rec Thin Oth Oth O	Crust (ic Crust (ic Crust (ic Crust (inc))) atticed R (inc) at	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce of Reducti Surface (lain in Reducti ches):	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	d Soils (Ce	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (mining) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) (N) Sediment Deposits (B3) (I) Drift Deposits (B3) (I) Surface Soil Cracks Inundation Visible of Water-Stained Leav Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Includes capillary fringe Describe Recorded Data	num of on (2) Ionriverin B2) (Non Nonriverin (B6) n Aerial In es (B9) Ye Ye	ne) riverine) ne) nagery (B7) ss Ness	Salt Biot Aqu Hyc Oxi Pre Rec Thin Oth Oth O	Crust (ic Crust (ic Crust (ic Crust (inc))) attic Inverse Crust Iron Muck er (Export (inc)) pth (inc)	(B11) t (B12) ertebrate Sulfide Ochizosphe of Reduce of Reducti Surface (lain in Reducti ches):	dor (C1) res along ed Iron (C4 on in Tilled C7) emarks)	d Soils (Ce	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: SSEP		City/County	<sub>/:</sub> <u>Sacrame</u>	nto County	Sampling Date:	11/13/2020
Applicant/Owner:				State: CA	Sampling Point:	216
Investigator(s): LB, AG		Section, To	wnship, Ra	nge: Township 7N / Ra	inge 7E / Section	า 14
Landform (hillslope, terrace, etc.): terrace		Local relie	f (concave,	convex, none): concave	Slo	pe (%):0
Subregion (LRR): C	Lat: 38.4	1648828		Long: -121.1828852	Datu	m: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 3	0% slopes			NWI classific	cation: n/a	
Are climatic / hydrologic conditions on the site typical for th	is time of yea	ar? Yes	,			
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" p		/ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map						atures, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	No		ne Sampled nin a Wetlar		<u>′</u> No	-
Within SW-44. Feature may be the result  VEGETATION – Use scientific names of plan		ading				
TEGETATION GOO COLONIANO NAMES OF PIAN	Absolute	Dominant	Indicator	Dominance Test work	rsheet	
Tree Stratum (Plot size:) 1	% Cover	Species?	Status	Number of Dominant S That Are OBL, FACW,	Species	(A)
2				Total Number of Domin Species Across All Stra		. (B)
4		= Total Co		Percent of Dominant S That Are OBL, FACW,		00 (A/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index wor	rksheet:	
2.				Total % Cover of:		y by:
3.				OBL species		
4.				FACW species		
5				FAC species	x 3 =	
Herb Stratum (Plot size: 1m^2 )	0	= Total Co	over	FACU species		
4 Fee per	55	Υ	FAC	UPL species		
2. Hor. mar.		Y	FAC	Column Totals:	(A)	(B)
3. Ely. cap-med.		N	UPL	Prevalence Index	c = B/A =	
4. Hol. vir.		N	UPL	Hydrophytic Vegetation		
5.				✓ Dominance Test is	; >50%	
6.				Prevalence Index i	is ≤3.0 <sup>1</sup>	
7				Morphological Ada		
8				Problematic Hydro	s or on a separate	,
Woody Vine Stratum (Plot size:)	100	= Total Co	over	Troblematic riyuro	priytic vegetation	(LAPIAIII)
1				<sup>1</sup> Indicators of hydric so be present, unless distr	il and wetland hyd urbed or problema	rology must tic.
2	0	= Total Co	over	Hydrophytic	-	
% Bare Ground in Herb Stratum 5	er of Biotic C		)	Vegetation	es <u>/</u> No _	
Remarks:						

Profile Desc	ription: (Describe	to the de	oth needed to docu	ment the	indicator	or confirm	n the absence of i	indicators.)
Depth	Matrix			x Feature	S 1	. 2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-3	7.5YR 3/2	96	7.5YR 4/6	4	<u>C</u>	PL	SiC	
		_						
				_				
-	-		-	_	·			
		<del>.</del> .						
				_				
1Typo: C-Co	ncontration D_Don	lotion PM	l=Reduced Matrix, C	S-Covere	d or Coat	od Sand G	rains <sup>2</sup> l ocatio	on: PL=Pore Lining, M=Matrix.
			I LRRs, unless othe			ed Sand G		Problematic Hydric Soils <sup>3</sup> :
Histosol		able to al	Sandy Red		cu.,			k (A9) (LRR C)
	pipedon (A2)		Stripped M					k (A10) ( <b>LRR B</b> )
Black His			Loamy Muc	, ,	ıl (F1)			Vertic (F18)
	n Sulfide (A4)		Loamy Gle					nt Material (TF2)
	Layers (A5) (LRR	C)	Depleted M		,			plain in Remarks)
1 cm Mu	ck (A9) ( <b>LRR D</b> )		Redox Dark	k Surface	(F6)			
	Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)		Redox Dep		F8)			nydrophytic vegetation and
	lucky Mineral (S1)		Vernal Poo	ls (F9)				rology must be present,
	leyed Matrix (S4)						unless distu	rbed or problematic.
	ayer (if present):							
Type: Cla								
Depth (inc	ches): <u>3</u>						Hydric Soil Pre	esent? Yes V No
Remarks:								
HYDROLO	GY							
	drology Indicators:	!						
•			ed; check all that app	lv)			Secondar	ry Indicators (2 or more required)
Surface '		one require	Salt Crust	•			· ·	er Marks (B1) (Riverine)
· <del></del> -	` '		<del></del>	` '			<del></del>	
Saturatio	ter Table (A2)		Biotic Cru Aquatic In		o (P12)			ment Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> )
	` '	ino)	Aquatic III					
	arks (B1) ( <b>Nonriver</b> nt Deposits (B2) ( <b>No</b>				, ,	Living Po		nage Patterns (B10) Season Water Table (C2)
	oosits (B3) ( <b>Nonrive</b>		Presence		-	•		fish Burrows (C8)
	Soil Cracks (B6)	iiie)	Recent Iro					ration Visible on Aerial Imagery (C9)
	on Visible on Aerial	lmagary (F				d Solis (Ci		ow Aquitard (D3)
	tained Leaves (B9)	iiiiageiy (L	Other (Ex				<del></del>	-Neutral Test (D5)
Field Observ	` ,		Other (EX	piaiii iii ike	Jiliaiks)		170	Tredital Test (Do)
		/oo	No / Donth (in	oboo).				
Surface Wate			No ✓ Depth (in					
Water Table			No <u>✓</u> Depth (in					
Saturation Pr		'es	No <u>✓</u> Depth (in	iches):		Wet	land Hydrology Pr	resent? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
	(	5 5-,	<b>y</b> ,			//		
Remarks:								
. tomaino.								

Project/Site: SSEP	Sacramer	nto County	_ Sampling	Date:11/	13/2020		
Applicant/Owner:	_ Sampling	Point:	217				
Investigator(s): LB, AG	wnship, Rar	nge: Township 7N / R	ange 7E / S	Section 14			
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): concave	е	Slope (%	6): <u> </u>
Subregion (LRR): C	Lat: 38.4	16494163		Long: -121.1835089	)	Datum: W	/GS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI classif			
Are climatic / hydrologic conditions on the site typical for this			,				
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances"		′es ✓	No
Are Vegetation, Soil, or Hydrology na				eded, explain any answ			
SUMMARY OF FINDINGS – Attach site map s							es, etc.
		<u> </u>	<u> </u>	,	•		<u> </u>
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	_		e Sampled			,	
Wetland Hydrology Present? Yes No		with	in a Wetlan	d? Yes	No _	<u> </u>	
Remarks:							
Upland point to 195 (VP-09)							
VECETATION . He ecientific nomes of plant							
VEGETATION – Use scientific names of plants		Danis	L. P. L.	D	-111		
		Dominant Species?		Dominance Test wor			
1				Number of Dominant : That Are OBL, FACW		0	_ (A)
2				Total Number of Dom	inant		
3				Species Across All St		3	(B)
4				Percent of Dominant S	Species		
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW	, or FAC:	0	_ (A/B)
1				Prevalence Index wo	orksheet:		
2				Total % Cover of:		Multiply by:	
3.					x 1		
4				FACW species 0	x 2	=0	
5					x 3		
Herb Stratum (Plot size: 1m^2 )	0	= Total Co	ver	FACU species 40			
4 Pro hor	40	Υ	FACU	UPL species 60		= 300	
1. Bio. nor. 2. Hol. vir.	20	Y	UPL	Column Totals:1	(A)	460	(B)
3. Ely. cap-med.	40	Υ	UPL	Prevalence Inde	ex = B/A = _	4.6	
4.				Hydrophytic Vegetat	tion Indicate	ors:	
5				Dominance Test			
6				Prevalence Index			
7				Morphological Ad data in Remar			
8				Problematic Hydr		•	•
Woody Vine Stratum (Plot size:)	100	= Total Co	ver			(	,
1				<sup>1</sup> Indicators of hydric se	oil and wetla	nd hydrolog	y must
2.				be present, unless dis	sturbed or pro	oblematic.	
	_	= Total Co	ver	Hydrophytic			
% Bare Ground in Herb Stratum 0	of Biotic Cr	ust 0		Vegetation Present? Y	es	No ✓	
Remarks:			-			<del></del>	•

	•	to the depth	needed to document the indicator o	r confirm the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Redox Features  Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture	Remarks
0-2	10YR 3/2	100	Color (moist) 70 Type	SiC	Nomano
0 2	1011(3)2				
	-				
			educed Matrix, CS=Covered or Coated		tion: PL=Pore Lining, M=Matrix.
-		cable to all LF	RRs, unless otherwise noted.)		or Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Redox (S5)		ick (A9) (LRR C)
	pipedon (A2) listic (A3)		<ul><li>Stripped Matrix (S6)</li><li>Loamy Mucky Mineral (F1)</li></ul>		ick (A10) ( <b>LRR B</b> ) d Vertic (F18)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		ent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted Matrix (F3)		xplain in Remarks)
	uck (A9) ( <b>LRR D</b> )	-,	Redox Dark Surface (F6)	001 (E	
	ed Below Dark Surface	ce (A11)	Depleted Dark Surface (F7)		
	ark Surface (A12)		Redox Depressions (F8)	<sup>3</sup> Indicators of	hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pools (F9)	wetland hy	drology must be present,
	Gleyed Matrix (S4)			unless dis	turbed or problematic.
	Layer (if present):				
Туре: <u>На</u>			<u> </u>		,
Depth (in	nches): <u>2</u>		<u> </u>	Hydric Soil P	resent? Yes No _ ✓
Remarks:					
HYDROLO	GY				
Wetland Hy	drology Indicators	:			
Primary Indi	cators (minimum of	one required;	check all that apply)	Second	ary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (B11)	Wa	ter Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Crust (B12)		diment Deposits (B2) (Riverine)
Saturati	ion (A3)		Aquatic Invertebrates (B13)	Drit	t Deposits (B3) (Riverine)
Water N	Marks (B1) (Nonrive	rine)	Hydrogen Sulfide Odor (C1)	Dra	iinage Patterns (B10)
Sedime	nt Deposits (B2) (No	onriverine)	Oxidized Rhizospheres along L	iving Roots (C3) Dry	r-Season Water Table (C2)
Drift De	posits (B3) (Nonrive	erine)	Presence of Reduced Iron (C4)	Cra	yfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron Reduction in Tilled		uration Visible on Aerial Imagery (C9)
Inundati	ion Visible on Aerial	Imagery (B7)	Thin Muck Surface (C7)	Sha	allow Aquitard (D3)
Water-S	Stained Leaves (B9)		Other (Explain in Remarks)	FA	C-Neutral Test (D5)
Field Obser	rvations:		·		
Surface Wat	ter Present?	/es No	o _ ✓ _ Depth (inches):	_	
Water Table			Depth (inches):		
Saturation P			Depth (inches):		Present? Yes No✓
(includes ca	pillary fringe)				<u>——</u> <u>——</u>
Describe Re	ecorded Data (stream	n gau <del>ge, moni</del>	toring well, aerial photos, previous insp	ections), if available:	<del></del>
Remarks:					

Project/Site: SSEP	<sub>r:</sub> <u>Sacramer</u>	nto County	Sampling Da	ate: 11/13	3/2020		
Applicant/Owner:		State: CA	Sampling Po	oint:2	19		
Investigator(s): LB, AG	{	wnship, Rar	nge: <mark>Township 7N / R</mark> a	inge 7E / Sec	ction 14		
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): concave		Slope (%):	3
Subregion (LRR): C	Lat: 38.4	6557416		Long: -121.1844983	1	Datum: WG	iS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI classific			
Are climatic / hydrologic conditions on the site typical for this			,				
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances"		s ✓ N	0
Are Vegetation, Soil, or Hydrology na				eded, explain any answe			
SUMMARY OF FINDINGS – Attach site map s							s, etc.
Libration but in Variation Property Van				<u> </u>	<u> </u>		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			ne Sampled				
Wetland Hydrology Present? Yes No		with	in a Wetlan	nd? Yes	No	<u> </u>	
Remarks:							
Upland point to 197 (VP-12)							
VEGETATION – Use scientific names of plant:							
<u> </u>		Daminant	la dia atau	Daminana Taat want	-al-aat-		
	Absolute % Cover			Dominance Test work  Number of Dominant S			
1				That Are OBL, FACW,		0	(A)
2				Total Number of Domir	nant		
3				Species Across All Stra		3	(B)
4	_			Percent of Dominant S	pecies		
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACW,	or FAC:	0	(A/B)
1				Prevalence Index wor	ksheet:		
2.				Total % Cover of:	M	ultiply by:	
3				OBL species 0	x 1 =	0	_
4				FACW species 0			_
5					x 3 =		_
Herb Stratum (Plot size: 1m^2	0	= Total Co	ver	FACU species 40			_
1. Ely. capmed.	40	Υ	UPL	UPL species 60 Column Totals: 10		360	— (D)
2. Bro. hor.	40	Υ	FACU	Column Totals:	00 (A)	300	_ (B)
3. Hol. vir.	20	Υ	UPL	Prevalence Index	: = B/A =	3.6	_
4				Hydrophytic Vegetati	on Indicators	;:	
5				Dominance Test is			
6				Prevalence Index i			
7				Morphological Ada data in Remark			
8	400			Problematic Hydro			
Woody Vine Stratum (Plot size:)		= Total Co	ver				
1				<sup>1</sup> Indicators of hydric so			must
2				be present, unless dist	urbed or probl	ematic.	
	0	= Total Co	ver	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0	of Biotic Cr	ust	)		es N	lo <u> </u>	
Remarks:				I			

Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more reduired; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)	Depth	Matrix		Redox Features		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix (CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix (CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix (FS)  Tuber C=Concentration, D=Depletion, Muck (A10) LRR B)  Black Histic (A3)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Loamy Mucky Mineral (F2)  Redox Day Sandrace (F1)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Sandy Mucky Mineral (S1)  Sandy Micky Mineral (S1)  Sandy Micky Mineral (S1)  Sandy Gleyed Matrix (S4)  Restrictive Luyer (if present):  Type: Hardpan  Depth (inches): 2  Hydric Soil Present? Yes		-		Color (moist) % Type <sup>1</sup>		Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Depleted Matrix (F3)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (12 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (13 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (14 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more re	0-2	10YR 3/2	100		SiC	
Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Depleted Matrix (F3)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (12 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (13 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (14 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more re						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Depleted Matrix (F3)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (12 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (13 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (14 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more re						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Striphed Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  1 cm Muck (A10) (LRR B)  Red Darent Material (TF2)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required: check all that apply)  Secondary Indicators (2 or more reconstruction)  Service Water (A1)  High Water Table (A2)  Setiment Deposits (B1)  Water Marks (B1) (Riverine)  Aquatic Invertebrates (B13)  Drift Deposits (B2) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced fron (C4)  Crayfish Burrows (C8)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imager (B7)  Inin Muck Carlos (B7)  Red Darent Reposits (B2)  Wetten Saturation (B3)  Water Table Present? Yes No Y Depth (inches):  Solface Water Present? Yes No Y Depth (inches):  Includes capillary fringe)  Wetland Hydrology Present? Yes No Y Depth (inches):  Includes (Stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Striphed Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  1 cm Muck (A10) (LRR B)  Red Darent Material (TF2)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required: check all that apply)  Secondary Indicators (2 or more reconstruction)  Service Water (A1)  High Water Table (A2)  Setiment Deposits (B1)  Water Marks (B1) (Riverine)  Aquatic Invertebrates (B13)  Drift Deposits (B2) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced fron (C4)  Crayfish Burrows (C8)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imager (B7)  Inin Muck Carlos (B7)  Red Darent Reposits (B2)  Wetten Saturation (B3)  Water Table Present? Yes No Y Depth (inches):  Solface Water Present? Yes No Y Depth (inches):  Includes capillary fringe)  Wetland Hydrology Present? Yes No Y Depth (inches):  Includes (Stream gauge, monitoring well, aerial photos, previous inspections), if available:	T 0. 0.			Dadward Matrix CC Covered as Control	Cond Crains 21 and	etion. Di Done Lining M Metric
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduce Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present): Type: Hardpan Depth (inches): 2 Hydrogen Sulfide (A2) Biotic Crust (B12) Sediment Deposits (B1) (Riverine) Saturation (A3) Physical (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Sediment Deposits (B2) (Nonriverine) Addition (Invertebrates (B13) Drift Deposits (B2) (Riverine) Depth (Inches): 2 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (F7) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (F7) Surface Water (F7) Shallow Aquatic Inches): Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (F7) Thin Muck Surface (F7) Water Table Present? Yes No Y Depth (Inches): Surface Water Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Dept						
Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Reduced Vertic (F18)  Reduced For (F18)	•		loable to all E	•		•
Black Histic (A3)		` '		, , ,		, , ,
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Other (Explain in Remarks)  Stratified Layers (A5) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F6)  Depleted Below Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Hardpan  Depth (inches): Z  Remarks:   YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more reduired; check all that apply)  High Water (A1) Sediment Deposits (B2) (Riverine)  High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)  Derift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)  Dirift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8)  Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3)  Water-Stained Leaves (B9) Other (Explain in Remarks) Present? Yes No Y Depth (inches):  Surface Water Present? Yes No Y Depth (inches):  Water Table Present? Yes No Y Depth (inches):  Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Period Dark Surface (A12) Redox Depressions (F8) Period Dark Surface (A12) Redox Depressions (F8) Period Problematic Restrictive Layer (if present): Type: Hardpan Depth (inches): Period Primary Indicators (Indicators				· · · · · · · · · · · · · · · · · · ·	, ,	
1 cm Muck (A9) (LRR D)			R C)		<del></del>	, ,
Depleted Below Dark Surface (A11)			~,	, ,	001 (1	,
Thick Dark Surface (A12)		. , , ,	ace (A11)	· , ,		
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present): Type: Hardpan Depth (inches): 2 Hydric Soil Present? Yes N  Remarks:    Hydric Soil Present? Yes N    Hydric Soil Present? Yes N   Hydric Soil Present			, ,	Redox Depressions (F8)	<sup>3</sup> Indicators of	of hydrophytic vegetation and
Restrictive Layer (if present): Type: Hardpan Depth (inches): 2	Sandy M	lucky Mineral (S1)		Vernal Pools (F9)	wetland h	ydrology must be present,
Type: Hardpan Depth (inches): 2	Sandy G	leyed Matrix (S4)			unless dis	sturbed or problematic.
Depth (inches): 2   Hydric Soil Present? Yes   Nemarks:    Primary Indicators:   Secondary Indicators (2 or more reductions)   Secondary Indicators (2 or more r						
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more reductions)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Water Table Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):  Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type: Hai	rdpan		<u> </u>		
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Mater Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Drainage Patterns (B10)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Water Table Present?  Yes No ✓ Depth (inches):  Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inc	ches): 2			Hydric Soil I	Present? Yes No 🗸
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Water Table Present?  Yes No ✓ Depth (inches):  Water Table Present?  Yes No ✓ Depth (inches):  Wetland Hydrology Present? Yes No Metland Previous Inspections), if available:	Remarks:					
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Water Table Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Secondary Indicators (2 or more recentered in the posits (B2) (Riverine)  Secondary Indicators (2 or more recentered in the posits (B2) (Riverine)  Sectional Deposits (B10)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Sediment Depos						
Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recovered in the property of the property						
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Drift Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Drainage Patterns (B10) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	-	-				
High Water Table (A2)	Primary Indic	ators (minimum of	fone required;	check all that apply)	Second	dary Indicators (2 or more required)
Mater Marks (B1) (Nonriverine)		` ,		· , ,		` , `
Water Marks (B1) (Nonriverine)	High Wa	ter Table (A2)		Biotic Crust (B12)	Se	ediment Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturatio	on (A3)		Aquatic Invertebrates (B13)	Dr	ift Deposits (B3) (Riverine)
Drift Deposits (B3) (Nonriverine)	Water Ma	arks (B1) (Nonrive	erine)	Hydrogen Sulfide Odor (C1)	Dr	ainage Patterns (B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5)  Field Observations:  Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ Methods capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sedimen	nt Deposits (B2) (N	lonriverine)	Oxidized Rhizospheres along Li	ving Roots (C3) Dr	y-Season Water Table (C2)
	Drift Dep	osits (B3) (Nonriv	verine)	Presence of Reduced Iron (C4)	Cr	ayfish Burrows (C8)
	Surface S	Soil Cracks (B6)		Recent Iron Reduction in Tilled	Soils (C6) Sa	turation Visible on Aerial Imagery (C9
Field Observations:  Surface Water Present? Yes No _ ✓ _ Depth (inches):  Water Table Present? Yes No _ ✓ _ Depth (inches):  Saturation Present? Yes No _ ✓ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Inundatio	on Visible on Aeria	l Imagery (B7)	Thin Muck Surface (C7)	Sh	allow Aquitard (D3)
Surface Water Present? Yes No /_ Depth (inches): Water Table Present? Yes No /_ Depth (inches): Saturation Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches):	Water-St	tained Leaves (B9	)	Other (Explain in Remarks)	FA	C-Neutral Test (D5)
Water Table Present? Yes No _ ✓ _ Depth (inches):  Saturation Present? Yes No _ ✓ _ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observ	vations:				
Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Wate	er Present?	Yes N	o <u>√</u> Depth (inches):	_	
Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table	Present?	Yes N	o _ ✓ Depth (inches):	_	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Pr	esent?				Present? Yes No ✓
	(includes cap	illary fringe)				
Remarks:	Describe Rec	corded Data (strea	m gauge, mon	itoring well, aerial photos, previous inspe	ections), if available:	
Remarks:						
	Remarks:					

Project/Site: SSEP		City/Cour	<sub>nty:</sub> <u>Sacrame</u>	ento County	Sam	npling Date	e: <u>11/1</u> :	3/2020
Applicant/Owner:				State:0	CA Sam	npling Poin	t:2	221
Investigator(s): LB, AG		Section,	Township, Ra	nge: Township 7	N / Range	7E / Secti	on 14	
Landform (hillslope, terrace, etc.): hillslope		Local rel	ief (concave,	convex, none): no	ne	S	Slope (%):	2
Subregion (LRR): C	Lat: 38.4	4654380	)5	_ Long: -121.185	4859	Da	atum:	
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30								
Are climatic / hydrologic conditions on the site typical for th								
Are Vegetation, Soil, or Hydrology				"Normal Circumsta			✓ N	0
Are Vegetation, Soil, or Hydrology				eeded, explain any				
SUMMARY OF FINDINGS – Attach site map								s, etc.
Hydrophytic Vegetation Present? Yes 1	No 🗸		41 01	1.4				
Hydric Soil Present? Yes N			the Sampled		s	No 🗸		
Wetland Hydrology Present? Yes 1	No	VV	itiiiii a wetiai	nu: 16	·			
Remarks:								
Point taken within "swale" feature previo	usly map <sub>l</sub>	oed by	SSHCP					
VEGETATION – Use scientific names of plan	nts.							
Trac Stratum (Diat size)	Absolute		ant Indicator	Dominance Tes	t workshee	t:		
Tree Stratum (Plot size:)			s? Status	Number of Domi That Are OBL, F			0	(A)
1								(八)
3.				Total Number of Species Across			3	(B)
4.								(-)
		= Total		Percent of Domi	nant Specie: ACW, or FA	s ،C:	0	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Inde				
1				Total % Cov			inly by:	
2 3						x 1 =		
4				FACW species				
5.					0			_
4 42	0	= Total	Cover	FACU species				_
Herb Stratum (Plot size: 1m^2)	40	Υ	UPL	UPL species				_
1. Ely. capmed. 2. Bro. hor.		Y	FACU	Column Totals:	100	_ (A)	360	(B)
3. Hol. vir.	20	Y	UPL	Prevalence	e Index = B/	'A =	3.6	
4				Hydrophytic Ve				_
5				Dominance	Test is >50%	%		
6.				Prevalence	Index is ≤3.0	) <sup>1</sup>		
7				Morphologic				
8				Problematic	emarks or o		,	
Woody Vine Stratum (Plot size:)	100	= Total	Cover	i iobiematic	Пушорпуш	, vegetatio	п (Ехріа	111)
1				<sup>1</sup> Indicators of hyd	dric soil and	wetland h	ydrology i	must
2.				be present, unle				
	_	= Total (	Cover	Hydrophytic				
% Bare Ground in Herb Stratum0 % Cove	er of Biotic C	rust	0	Vegetation Present?	Yes	No	~	
Remarks:	5. 2.0.00							

Depth Ma				ox Feature		Loc <sup>2</sup>	Taxture	Domorko
(inches) Color (mois			or (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2	100						SiC	
<del></del>								-
<del></del>								-
Type: C=Concentration, D	-Doplotion F	PM-Podu	and Matrix C	S-Covere	d or Coata	d Sand G	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A						u Sanu G		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	ppiloubic to	un Entito,	Sandy Red		cu.,			Muck (A9) (LRR C)
Histic Epipedon (A2)		-	Stripped M					Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mu		al (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (I	RR C)		Depleted N		,			(Explain in Remarks)
1 cm Muck (A9) (LRR [	<b>D</b> )		_ Redox Dar	k Surface	(F6)			
Depleted Below Dark S	urface (A11)		_ Depleted D	ark Surfac	ce (F7)			
Thick Dark Surface (A1			_ Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (			_ Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed Matrix (S							unless d	listurbed or problematic.
Restrictive Layer (if prese	nt):							
<sub>Type:</sub> <u>Hardpan</u>								
_								
Depth (inches): 2							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No/
Remarks:							Hydric Soil	Present? Yes No
YDROLOGY	tors:						Hydric Soil	Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app	ly)				Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app Salt Crus				Secon	
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur		ired; chec	• •	t (B11)			<u>Seco</u> i	ndary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)			Salt Crus	t (B11) st (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)	n of one requ		Salt Crus Biotic Cru	t (B11) st (B12) nvertebrate	, ,		<u>Secon</u> V S S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	n of one requ	- - -	Salt Crus Biotic Cru Aquatic Ir	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roo	Secon	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non	n of one requ riverine) ) (Nonriverin	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ast (B12) avertebrate Sulfide O	dor (C1) eres along	•	<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2)	n of one requ riverine) ) (Nonriverin nriverine)	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) est (B12) evertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	4)	Secon V S D C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non	n of one requiriverine) (Nonriverine) (S)	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille	4)	Secor V S S Cots (C3) S S S S S S S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
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YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Sincludes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
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Project/Site: SSEP		City/County	: Sacramer	nto County	Samplir	ng Date:	11/13/2020
Applicant/Owner:				State: CA	Samplir	ng Point: _	222
Investigator(s): LB, AG		Section, To	wnship, Rar	nge: Township 7N /	Range 7E	/ Section	14
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): none		Slop	e (%):3
Subregion (LRR): C	Lat: 38.4	640078		Long: -121.18572	73	Datum	n: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI clas			
Are climatic / hydrologic conditions on the site typical for this			,				
Are Vegetation, Soil, or Hydrology sig				Normal Circumstance			No
Are Vegetation, Soil, or Hydrology na				eded, explain any an			
SUMMARY OF FINDINGS – Attach site map s							oturos oto
SOMMANT OF FINDINGS - Attach site map's	nowing	Sampiin	g point ic	ocations, transe	cts, illipo	Ttarit iea	
Hydrophytic Vegetation Present? Yes No		ls th	e Sampled	Area			
Hydric Soil Present? Yes No		with	in a Wetlan	d? Yes_	No	o	
Wetland Hydrology Present? Yes No Remarks:							
Upland point (SW-46)							
VEGETATION – Use scientific names of plants							
	Absolute % Cover			Dominance Test w			
1				Number of Dominar That Are OBL, FAC		0	(A)
2.				Total Number of Do			
3				Species Across All		3	(B)
4				Percent of Dominar	nt Species		
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FAC	W, or FAC:	0	(A/B)
1				Prevalence Index	worksheet:		
2				Total % Cover			by:
3.					x		
4.				FACW species 0	x	(2 =	0
5					x		0
Herb Stratum (Plot size: 1m^2)	0	= Total Co	ver	FACU species 40			160
4. Ely can mod	40	Υ	UPL	UPL species 60			300
2. Bro. hor.	40	Y	FACU	Column Totals:	100 (	A) <u>3</u>	860 (B)
3. Hol. vir.	20	Y	UPL	Prevalence In	dex = B/A =	3.6	6
4.				Hydrophytic Vege	tation Indica	ators:	
5.				Dominance Tes			
6				Prevalence Ind			
7				Morphological a			
8				Problematic Hy			*
Woody Vine Stratum (Plot size:)	100	= Total Co	ver		alopily lio ve	agottation (	Explain
1				<sup>1</sup> Indicators of hydric	soil and we	tland hydro	ology must
2				be present, unless	disturbed or	problemation	C.
	_	= Total Co	ver	Hydrophytic			
% Bare Ground in Herb Stratum 0	of Biotic Cr	<sub>ust</sub> C	)	Vegetation Present?	Yes	No •	,
Remarks:							

Depth Ma				ox Feature		Loc <sup>2</sup>	Taxture	Domorko
(inches) Color (mois			or (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2	100						SiC	
<del></del>								-
<del></del>								-
Type: C=Concentration, D	-Doplotion F	PM-Podu	and Matrix C	S-Covere	d or Coata	d Sand G	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A						u Sanu G		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	ppiloubic to	un Entito,	Sandy Red		cu.,			Muck (A9) (LRR C)
Histic Epipedon (A2)		-	Stripped M					Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mu		al (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (I	RR C)		Depleted N		,			(Explain in Remarks)
1 cm Muck (A9) (LRR [	<b>D</b> )		_ Redox Dar	k Surface	(F6)			
Depleted Below Dark S	urface (A11)		_ Depleted D	ark Surfac	ce (F7)			
Thick Dark Surface (A1			_ Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (			_ Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed Matrix (S							unless d	listurbed or problematic.
Restrictive Layer (if prese	nt):							
<sub>Type:</sub> <u>Hardpan</u>								
_								
Depth (inches): 2							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No/
Remarks:							Hydric Soil	Present? Yes No
YDROLOGY	tors:						Hydric Soil	Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app	ly)				Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app Salt Crus				Secon	
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur		ired; chec	• •	t (B11)			<u>Seco</u> i	ndary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)			Salt Crus	t (B11) st (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)	n of one requ		Salt Crus Biotic Cru	t (B11) st (B12) nvertebrate	, ,		<u>Secon</u> V S S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	n of one requ	- - -	Salt Crus Biotic Cru Aquatic Ir	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roo	Secon	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non	n of one requ riverine) ) (Nonriverin	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ast (B12) avertebrate Sulfide O	dor (C1) eres along	•	<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2)	n of one requ riverine) ) (Nonriverin nriverine)	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) est (B12) evertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	4)	Secon V S D C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non	n of one requiriverine) (Nonriverine) (S)	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille	4)	Secor V S S Cots (C3) S S S S S S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
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Primary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non) Sediment Deposits (B2) Drift Deposits (B3) (Non) Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves (B6) Water Water Present? Water Table Present?	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes Yes	(B7) No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide O Rhizosphe of Reduce on Reducti k Surface ( plain in Re nches):	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tilled (C7) emarks)	H) H Soils (C6	Secon V S D D D C S D C S S S F	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Sincludes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
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Project/Site: SSEP	City/C	o <sub>unty:</sub> <u>Sacramer</u>	nto County	Sampling Date: 1	1/13/2020
Applicant/Owner:			State: CA	Sampling Point:	223
Investigator(s): LB, AG	Section	on, Township, Ran	<sub>ige:</sub> <u>Township 7N / Ra</u>	nge 7E / Section 1	4
Landform (hillslope, terrace, etc.): hillslope	Loca	I relief (concave, c	onvex, none): none	Slope	(%):0
Subregion (LRR): C	Lat: 38.4630	2341	Long: -121.1842093	Datum:	WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30	0% slopes		NWI classific	cation: n/a	
Are climatic / hydrologic conditions on the site typical for thi	is time of year? Y	res <u> </u>	(If no, explain in R	lemarks.)	
Are Vegetation, Soil, or Hydrology	significantly distur	bed? Are "I	Normal Circumstances" p	oresent? Yes <u>√</u>	No
Are Vegetation, Soil, or Hydrology	naturally problema	atic? (If nee	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing san	npling point lo	cations, transects	, important feat	ures, etc.
Hydrophytic Vegetation Present? Yes N	<b>√</b>	la dia Cassala d	A		
Hydric Soil Present? Yes N		Is the Sampled within a Wetlan		No	
Wetland Hydrology Present? Yes N		within a wetian	ur res	NO	
Remarks:					
Upland point to 204 (SW-47)					
VEGETATION – Use scientific names of plan	nts.				
		ninant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover Spe		Number of Dominant S		(4)
1			That Are OBL, FACW,	or FAC:	(A)
2			Total Number of Domin Species Across All Stra		(B)
4					(b)
	<u> </u>		Percent of Dominant Spart Are OBL, FACW,	pecies or FAC: 0	(A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index wor		
1			Total % Cover of:		W.
2				x 1 = 0	
3				x 2 = 0	)
5				x 3 = 0	)
	0 = To	tal Cover	FACU species 40		
Herb Stratum (Plot size: 1m^2)			UPL species 60	x 5 =30	00
1. Ely. capmed.		Y UPL	Column Totals:10	00 (A) <u>36</u>	60 (B)
2. Bro. hor.		Y FACU	Describer so la doc	x = B/A = 3.6	
3. Hol. vir.		Y UPL	Prevalence Index		
4			Hydrophytic Vegetation  Dominance Test is		
5			Prevalence Index i		
6			Morphological Ada		pporting
8			data in Remark	s or on a separate sh	neet)
0	100 = To		Problematic Hydro	phytic Vegetation <sup>1</sup> (E	xplain)
Woody Vine Stratum (Plot size:)					
1			<sup>1</sup> Indicators of hydric soi be present, unless distr		
2	_		•		
		tal Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum0 % Cove	er of Biotic Crust _	U	Present? Ye	es No	
Remarks:					

Depth	Matrix		Redox Featur	es			
(inches)	Color (moist)	%	Color (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100			Sid	С	
		<del></del>					
	<del>.</del>						
	-						
		<del></del>					
1- 0.0						21	
			duced Matrix, CS=Cover Rs, unless otherwise no				or Problematic Hydric Soils <sup>3</sup> :
Histoso			Sandy Redox (S5)	,			uck (A9) (LRR C)
	pipedon (A2)		Stripped Matrix (S6)	)	•		uck (A10) ( <b>LRR B</b> )
	listic (A3)		Loamy Mucky Mine		•		d Vertic (F18)
	en Sulfide (A4)		Loamy Gleyed Matr		•		rent Material (TF2)
	ed Layers (A5) ( <b>LRR</b> (	C)	Depleted Matrix (F3		•		Explain in Remarks)
	luck (A9) ( <b>LRR D</b> )	,	Redox Dark Surface	,	•		
	ed Below Dark Surfac	e (A11)	Depleted Dark Surfa	` '			
Thick D	ark Surface (A12)		Redox Depressions	(F8)	;	<sup>3</sup> Indicators o	f hydrophytic vegetation and
Sandy I	Mucky Mineral (S1)		Vernal Pools (F9)			wetland h	ydrology must be present,
Sandy	Gleyed Matrix (S4)					unless dis	turbed or problematic.
	Layer (if present):						
Type: Ha	ardpan		_				
Depth (in	nches): <u>2</u>		_		н	lydric Soil F	Present? Yes No 🔽
Remarks:							
IYDROLO							
-	drology Indicators:					_	
Primary Indi	icators (minimum of o	<u>one required; cl</u>	anak all that annly)				
	e Water (A1)		ieck all that apply)				lary Indicators (2 or more required)
	` '		Salt Crust (B11)			Wa	ater Marks (B1) (Riverine)
High W	ater Table (A2)		••••			Wa	
High W Saturat	ater Table (A2)		Salt Crust (B11)	tes (B13)		Wa	ater Marks (B1) (Riverine)
Saturat	ater Table (A2)	ine)	Salt Crust (B11) Biotic Crust (B12)	, ,		Wa Se Dri	ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
Saturat	ater Table (A2) ion (A3)		Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide (	Odor (C1)	ving Roots ((	Wa Se Dri Dra	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Saturati Water M Sedime	ater Table (A2) ion (A3) Marks (B1) ( <b>Nonriver</b>	nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide (	Odor (C1) neres along Li	ving Roots (	Wa Se Dra Dra C3) Dra	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
Saturati Water M Sedime Drift De	dater Table (A2) ion (A3) Marks (B1) ( <b>Nonriver</b> ent Deposits (B2) ( <b>No</b>	nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph	Odor (C1) neres along Li ced Iron (C4)		Wa Se Dri Dra C3) Dra Cra	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Saturat Water M Sedime Drift De Surface	rater Table (A2) ion (A3) Marks (B1) ( <b>Nonriver</b> ent Deposits (B2) ( <b>No</b> eposits (B3) ( <b>Nonrive</b>	nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu	Odor (C1) neres along Linced Iron (C4) ection in Tilled S		Wa Se Dri Dra Cra Sa	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Saturat Water M Sedime Drift De Surface Inundat	rater Table (A2) ion (A3) Marks (B1) ( <b>Nonriver</b> ent Deposits (B2) ( <b>No</b> eposits (B3) ( <b>Nonrive</b> e Soil Cracks (B6)	nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduce	Odor (C1) heres along Linced Iron (C4) ction in Tilled (c) e (C7)		Wa Se Dri Dra C3) Dry Cra Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9
Saturati Water M Sedime Drift De Surface Inundat Water-S	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9)	nriverine) rine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reducement of Recent Iron Reducement Surfacement Odor (C1) heres along Linced Iron (C4) ction in Tilled (c) e (C7)		Wa Se Dri Dra C3) Dry Cra Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)	
Saturati Water M Sedime Drift De Surface Inundat Water-S	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations:	nriverine) rine) Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface Other (Explain in F	Odor (C1) heres along Li ced Iron (C4) ction in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Dri Dra C3) Dry Cra Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obset Surface Wa	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations:	nriverine) rine) Imagery (B7)  Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface Other (Explain in F	Odor (C1) neres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Dri Dra C3) Dry Cra Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Wa Water Table	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present?  Present?	nriverine) rine) Imagery (B7)  Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduce Recent Iron Reduce Thin Muck Surface Other (Explain in F	Odor (C1) heres along Lir ced Iron (C4) ction in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Dri Cra Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-\$ Field Obset Surface Wa Water Table Saturation F	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: iter Present? Present? Y	nriverine) rine) Imagery (B7)  Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface Other (Explain in F	Odor (C1) heres along Lir ced Iron (C4) ction in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Dri Cra Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduce Recent Iron Reduce Thin Muck Surface Other (Explain in F	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obset Surface Wa Water Table Saturation F (includes ca Describe Re	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Saturati Water M Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca Describe Re	rater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Apillary fringe)	nriverine) rine) Imagery (B7)  Yes No Yes No Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduction Recent Iron Reduction Thin Muck Surface Other (Explain in Foundation of Depth (inches): ✓ Depth (inches):	Odor (C1) heres along Li ced Iron (C4) stion in Tilled S c (C7) Remarks)	Soils (C6)	Wa Se Se Dri C3) Dry Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: SSEP	(	City/County	: Sacrame	nto County	Sampling Date:11/13/2020
Applicant/Owner:				State: CA	Sampling Point: 224
Investigator(s): LB, AG					
					Slope (%):0
Subregion (LRR): C	Lat: 38.4	16291586		Long: -121.1840763	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI classification	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	,		
Are Vegetation, Soil, or Hydrology sig					resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na			(If ne	eeded, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map s			g point le	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No		le th	e Sampled	I Area	
Hydric Soil Present? Yes No			in a Wetlan		No
Wetland Hydrology Present? Yes No		With	iii a wellali	103	
Remarks:					
Within SW-48. Microdepression in grassland	d				
VEGETATION – Use scientific names of plants	s.				
		Dominant		Dominance Test works	sheet:
,		Species?		Number of Dominant Sp	
1 2				That Are OBL, FACW, o	or FAC:1 (A)
3				Total Number of Domina Species Across All Strat	
4					
	_	= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)					( , , )
1				Prevalence Index work	
2					Multiply by:
3					x 1 = x 2 =
4					x 3 =
5		= Total Co	ver		x 4 =
Herb Stratum (Plot size: 1m^2		- 10141 00	•••		x 5 =
1. Fes. per.	60	Y	FAC		(A) (B)
2. Lac. ser.	15	N	FAC		
3. Bro. ele.	2	N	NL_		= B/A =
4. Hor. mar.	<u>5</u> 5	N	FAC	Hydrophytic Vegetatio	
5. Con. mac.	3	N	FACW FACU	<ul><li>Dominance Test is</li><li>Prevalence Index is</li></ul>	
6. Bro. hor.			FACO		otations <sup>1</sup> (Provide supporting
7					s or on a separate sheet)
8		= Total Co	VAr	Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		- 10tai 00	VOI		
1				<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must
2					
	0	= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 10	of Biotic Cr	ustC	<u> </u>		s No
Remarks:					
10% unidentifiable thatch					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			ox Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5YR 3/1	100					CL	organic material
3-5	7.5 YR 3/1	97	10YR 5/6	3	С	M	SiC	
					-			
					<u> </u>			<del>-</del>
					_			
				_		_		
1= 0.0							. 2.	
			M=Reduced Matrix, C II LRRs, unless other			ted Sand G		ocation: PL=Pore Lining, M=Matrix.  rs for Problematic Hydric Soils <sup>3</sup> :
		cable to a			iea.)			•
Histosol	(A1) pipedon (A2)		Sandy Red					n Muck (A9) (LRR C)
	stic (A3)		Stripped M Loamy Mu		al (E1)			n Muck (A10) ( <b>LRR B</b> ) uced Vertic (F18)
	en Sulfide (A4)		Loamy Gle					Parent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	(C)	Depleted N	•	. ,			er (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	. • ,	✓ Redox Dar	, ,				(Explain in Normanie)
	d Below Dark Surfa	ice (A11)	Depleted D		` '			
	ark Surface (A12)	, ,	Redox Dep				<sup>3</sup> Indicato	rs of hydrophytic vegetation and
Sandy M	Mucky Mineral (S1)		Vernal Poo	ols (F9)			wetlan	d hydrology must be present,
	Bleyed Matrix (S4)						unless	disturbed or problematic.
	Layer (if present):							
Type: Cla								
Depth (in	ches): <u>5</u>						Hydric Sc	oil Present? Yes V No
Remarks:								
HYDROLO								
Wetland Hy	drology Indicators	S:						
Primary India	cators (minimum of	one requir	ed; check all that app	ly)			Sec.	condary Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	t (B11)				Water Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)				Sediment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Ir	nvertebrate	es (B13)			Drift Deposits (B3) (Riverine)
Water M	larks (B1) (Nonrive	erine)	Hydroger	Sulfide O	dor (C1)		✓	Drainage Patterns (B10)
Sedimer	nt Deposits (B2) (N	onriverine	) Oxidized	Rhizosphe	eres alon	g Living Ro	ots (C3)	Dry-Season Water Table (C2)
Drift Dep	oosits (B3) (Nonriv	erine)	Presence	of Reduc	ed Iron (0	C4)		Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Ir	on Reduct	ion in Till	ed Soils (C	(6) <u>~</u>	Saturation Visible on Aerial Imagery (C9)
Inundati	on Visible on Aeria	l Imagery (	37) Thin Muc	k Surface	(C7)			Shallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in Re	emarks)			FAC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present?	Yes	No <u>√</u> Depth (ir	nches):				
Water Table			No ✓ Depth (ir					
Saturation P			No ✓ Depth (ir				land Hydrold	ogy Present? Yes ✓ No
(includes cap	oillary fringe)						•	
Describe Re	corded Data (strea	m gauge, n	nonitoring well, aerial	photos, p	revious ir	nspections)	, if available:	
Remarks:								

Project/Site: SSEP	(	City/County	: Sacramer	nto County	Samplin	ng Date:1	1/13/2020
Applicant/Owner:				State: CA	Samplin	ıg Point:	225
Investigator(s): LB, AG		Section, To	wnship, Rar	nge: Township 7N /	Range 7E /	Section 1	L4
Landform (hillslope, terrace, etc.): bottomland		Local relief	(concave, c	convex, none): none		Slope	e (%): <u>0</u>
Subregion (LRR): C	Lat: 38.4	6295345		Long: -121.184085	56	Datum	WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI class			
Are climatic / hydrologic conditions on the site typical for this			,				
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances			No
Are Vegetation, Soil, or Hydrology na				eded, explain any ans			
SUMMARY OF FINDINGS – Attach site map s							tures, etc.
Lhidenhide Venetation Present?	<i></i>						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			e Sampled				
Wetland Hydrology Present? Yes No		with	in a Wetlan	id? Yes	No		
Remarks:		I					
Upland point to 224 (SW-48)							
VEGETATION – Use scientific names of plants	<u> </u>						
•		Dominant	Indicator	Dominance Test we	orkshoot:		
		Species?		Number of Dominan			
1				That Are OBL, FAC		0	(A)
2				Total Number of Dor	minant		
3				Species Across All S	Strata:	3	(B)
4	_			Percent of Dominant	t Species	_	
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FAC	W, or FAC:	0	(A/B)
1				Prevalence Index w	vorksheet:		
2				Total % Cover of			
3				· ·	x		
4				FACW species 0			
5				FAC species 0 FACU species 40	x		50 50
Herb Stratum (Plot size: 1m^2 )		= Total Co	ver	UPL species 60			00
1. Ely. capmed.	40	Y	UPL	-			50 (B)
2. Bro. hor.	40	Y	FACU			·	(-)
3. Hol. vir.	20	Y	UPL	Prevalence Inc			<u> </u>
4				Hydrophytic Vegeta		itors:	
5				Dominance Tes			
6				Prevalence Inde		(Drovido o	upporting
7				Morphological A data in Rema			
8	400	= Total Co		Problematic Hyd	drophytic Ve	getation1 (E	Explain)
Woody Vine Stratum (Plot size:)		= 10(a) 00	vei				
1				<sup>1</sup> Indicators of hydric			
2				be present, unless d	isturbed or p	Jobiemalic	••
	0	= Total Co	ver	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum	of Biotic Cr	ustC	)		Yes	_ No <u></u> ✓	
Remarks:							

Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more reduired; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Aquatic Invertebrates (B13)  Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Oxidized Rhizospheres along Living Roots (C3)  Dry-Season Water Table (C2)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)	Depth	Matrix		Redox Features		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix (CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix (CS=Covered or Coated Sand Grains.  Tuber C=Concentration, D=Depletion, RM=Reduced Matrix (FS)  Tuber C=Concentration, D=Depletion, Muck (A10) LRR B)  Black Histic (A3)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Loamy Mucky Mineral (F2)  Redox Day Sandrace (F1)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Sandy Mucky Mineral (S1)  Sandy Micky Mineral (S1)  Sandy Micky Mineral (S1)  Sandy Gleyed Matrix (S4)  Restrictive Luyer (if present):  Type: Hardpan  Depth (inches): 2  Hydric Soil Present? Yes		-		Color (moist) % Type <sup>1</sup>		Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Depleted Matrix (F3)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (12 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (13 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (14 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more re	0-2	10YR 3/2	100		SiC	
Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Depleted Matrix (F3)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (12 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (13 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (14 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more re						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Depleted Matrix (F3)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recondendary)  Secondary Indicators (2 or more recondendary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (12 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (13 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (14 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more recondary)  Netland Hydrology Indicators:  Primary Indicators (Indicators (15 or more re						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Striphed Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  1 cm Muck (A10) (LRR B)  Red Darent Material (TF2)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required: check all that apply)  Secondary Indicators (2 or more reconstruction)  Service Water (A1)  High Water Table (A2)  Setiment Deposits (B1)  Water Marks (B1) (Riverine)  Aquatic Invertebrates (B13)  Drift Deposits (B2) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced fron (C4)  Crayfish Burrows (C8)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imager (B7)  Inin Muck Carlos (B7)  Red Darent Reposits (B2)  Wetten Saturation (B3)  Water Table Present? Yes No Y Depth (inches):  Solface Water Present? Yes No Y Depth (inches):  Includes capillary fringe)  Wetland Hydrology Present? Yes No Y Depth (inches):  Includes (Stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Striphed Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  1 cm Muck (A10) (LRR B)  Red Darent Material (TF2)  Other (Explain in Remarks)  1 cm Muck (A9) (LRR B)  Red Parent Material (TF2)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (If present):  Type: Hardpan  Depth (inches): 2  Primary Indicators (minimum of one required: check all that apply)  Secondary Indicators (2 or more reconstruction)  Service Water (A1)  High Water Table (A2)  Setiment Deposits (B1)  Water Marks (B1) (Riverine)  Aquatic Invertebrates (B13)  Drift Deposits (B2) (Nonriverine)  Hydrogen Sulfide Odor (C1)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced fron (C4)  Crayfish Burrows (C8)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imager (B7)  Inin Muck Carlos (B7)  Red Darent Reposits (B2)  Wetten Saturation (B3)  Water Table Present? Yes No Y Depth (inches):  Solface Water Present? Yes No Y Depth (inches):  Includes capillary fringe)  Wetland Hydrology Present? Yes No Y Depth (inches):  Includes (Stream gauge, monitoring well, aerial photos, previous inspections), if available:	T 0. 0.			Dadward Matrix CC Covered as Control	Cond Crains 21 and	etion. Di Done Lining M Metric
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduce Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present): Type: Hardpan Depth (inches): 2 Hydrogen Sulfide (A2) Biotic Crust (B12) Sediment Deposits (B1) (Riverine) Saturation (A3) Physical (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Sediment Deposits (B2) (Nonriverine) Addition (Invertebrates (B13) Drift Deposits (B2) (Riverine) Depth (Inches): 2 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (F7) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (F7) Surface Water (F7) Shallow Aquatic Inches): Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (F7) Thin Muck Surface (F7) Water Table Present? Yes No Y Depth (Inches): Surface Water Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Depth (Inches): Wetland Hydrology Present? Yes No Y Dept						
Histic Epipedon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1)  Reduced Vertic (F18)  Reduced For (F18)	•		loable to all E	•		•
Black Histic (A3)		` '		, , ,		, , ,
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Other (Explain in Remarks)  Stratified Layers (A5) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks)  Depleted Below Dark Surface (A11) Depleted Dark Surface (F6)  Depleted Below Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if present):  Type: Hardpan  Depth (inches): Z  Remarks:   YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more reduired; check all that apply)  High Water (A1) Sediment Deposits (B2) (Riverine)  High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)  Derift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)  Dirift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8)  Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3)  Water-Stained Leaves (B9) Other (Explain in Remarks) Present? Yes No Y Depth (inches):  Surface Water Present? Yes No Y Depth (inches):  Water Table Present? Yes No Y Depth (inches):  Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Period Dark Surface (A12) Redox Depressions (F8) Period Dark Surface (A12) Redox Depressions (F8) Period Problematic Restrictive Layer (if present): Type: Hardpan Depth (inches): Period Primary Indicators (Indicators				· · · · · · · · · · · · · · · · · · ·	, ,	
1 cm Muck (A9) (LRR D)			R C)		<del></del>	, ,
Depleted Below Dark Surface (A11)			~,	, ,	001 (1	,
Thick Dark Surface (A12)		. , , ,	ace (A11)	· , ,		
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present): Type: Hardpan Depth (inches): 2 Hydric Soil Present? Yes N  Remarks:    Hydric Soil Present? Yes N    Hydric Soil Present? Yes N   Hydric Soil Present			, ,	Redox Depressions (F8)	<sup>3</sup> Indicators of	of hydrophytic vegetation and
Restrictive Layer (if present): Type: Hardpan Depth (inches): 2	Sandy M	lucky Mineral (S1)		Vernal Pools (F9)	wetland h	ydrology must be present,
Type: Hardpan Depth (inches): 2	Sandy G	leyed Matrix (S4)			unless dis	sturbed or problematic.
Depth (inches): 2   Hydric Soil Present? Yes   Nemarks:    Primary Indicators:   Secondary Indicators (2 or more reductions)   Secondary Indicators (2 or more r						
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more reductions)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Water Marks (B1) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Water Table Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):  Water Table Present? Yes No ✓ Depth (inches):  Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type: Hai	rdpan		<u> </u>		
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Mater Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Drainage Patterns (B10)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Water Table Present?  Yes No ✓ Depth (inches):  Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inc	ches): 2			Hydric Soil I	Present? Yes No 🗸
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Water Table Present?  Yes No ✓ Depth (inches):  Wetland Hydrology Present? Yes No Metal Present?  Wetland Hydrology Present? Yes No Metal Present? Yes No Yepth (inches):  Surface Water Present? Yes No Yepth (inches):  Wetland Hydrology Present? Yes No Metal Present? Yes No Yepth (inches):  Secondary Indicators (2 or more recurs (B10)  Water Table Present? Yes No Yepth (inches):  Wetland Hydrology Present? Yes No Metal Present? Yes No Yepth (inches):  Wetland Hydrology Present? Yes No Metal Present? Yes No Yepth (inches):  Wetland Hydrology Present? Yes No Metal Present? Yes No Yepth (inches):  Wetland Hydrology Present? Yes No Yepth (inches):  Wetland Hydrology Present? Yes No Yepth (inches):  Secondary Indicators (2 or more recurs (B10)  North Cary Mater Present? Yes No Yepth (inches):  Sediment Deposits (B1)  North Mater Present? Yes No Yepth (inches):  Sediment Deposits (B1)  North Mater Present? Yes No Yepth (inches):  Sediment Deposits (B1)  North Mater Present? Yes No Yepth (inches):  Sediment Deposits (B1)  North Mater Present?	Remarks:					
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)  Surface Soil Cracks (B6)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (B7)  Thin Muck Surface (C7)  Shallow Aquitard (D3)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No ✓ Depth (inches):  Water Table Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Saturation Present?  Yes No ✓ Depth (inches):  Secondary Indicators (2 or more recentered in the posits (B2) (Riverine)  Secondary Indicators (2 or more recentered in the posits (B2) (Riverine)  Sectional Deposits (B10)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drift Deposits (B3) (Riverine)  Sediment Depos						
Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more recovered in the property of the property						
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Drift Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Drainage Patterns (B10) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	-	-				
High Water Table (A2)	Primary Indic	ators (minimum of	fone required;	check all that apply)	Second	dary Indicators (2 or more required)
Mater Marks (B1) (Nonriverine)		` ,		· , ,		` , `
Water Marks (B1) (Nonriverine)	High Wa	ter Table (A2)		Biotic Crust (B12)	Se	ediment Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturatio	on (A3)		Aquatic Invertebrates (B13)	Dr	ift Deposits (B3) (Riverine)
Drift Deposits (B3) (Nonriverine)	Water Ma	arks (B1) (Nonrive	erine)	Hydrogen Sulfide Odor (C1)	Dr	ainage Patterns (B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5)  Field Observations:  Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ Methods capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sedimen	nt Deposits (B2) (N	lonriverine)	Oxidized Rhizospheres along Li	ving Roots (C3) Dr	y-Season Water Table (C2)
	Drift Dep	osits (B3) (Nonriv	verine)	Presence of Reduced Iron (C4)	Cr	ayfish Burrows (C8)
	Surface S	Soil Cracks (B6)		Recent Iron Reduction in Tilled	Soils (C6) Sa	turation Visible on Aerial Imagery (C9
Field Observations:  Surface Water Present? Yes No _ ✓ _ Depth (inches):  Water Table Present? Yes No _ ✓ _ Depth (inches):  Saturation Present? Yes No _ ✓ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Inundatio	on Visible on Aeria	l Imagery (B7)	Thin Muck Surface (C7)	Sh	allow Aquitard (D3)
Surface Water Present? Yes No /_ Depth (inches): Water Table Present? Yes No /_ Depth (inches): Saturation Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): No /_ Depth (inches): Wetland Hydrology Present? Yes No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches): No /_ Depth (inches):	Water-St	tained Leaves (B9	)	Other (Explain in Remarks)	FA	C-Neutral Test (D5)
Water Table Present? Yes No _ ✓ _ Depth (inches):  Saturation Present? Yes No _ ✓ _ Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observ	vations:				
Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Wate	er Present?	Yes N	o <u>√</u> Depth (inches):	_	
Saturation Present? Yes No _ ✓ Depth (inches): Wetland Hydrology Present? Yes No _ ✓ Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table	Present?	Yes N	o _ ✓ Depth (inches):	_	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Pr	esent?				Present? Yes No ✓
	(includes cap	illary fringe)				
Remarks:	Describe Rec	corded Data (strea	m gauge, mon	itoring well, aerial photos, previous inspe	ections), if available:	
Remarks:						
	Remarks:					

Project/Site: SSEP	(	City/County:	Sacrame	nto County	Sampling Date: 11/13/2020
Applicant/Owner:				State: CA	Sampling Point: 226
Investigator(s): LB, AG					
					Slope (%):0
Subregion (LRR): C	Lat: 38.4	1630577		Long: -121.1837917	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI classific	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	,		
Are Vegetation, Soil, or Hydrology sig					oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na			(If ne	eeded, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point le	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No		ls th	e Sampled	Δτοα	
Hydric Soil Present? Yes No			in a Wetlan		No
Wetland Hydrology Present? Yes No					
Remarks:	اء.				
Within SW-49. Microdepression in grassland	a				
<b>VEGETATION</b> – Use scientific names of plant	s.				
		Dominant		Dominance Test work	sheet:
		Species?		Number of Dominant Sp	
1 2				That Are OBL, FACW, o	) FAC: (A)
3				Total Number of Domina Species Across All Strate	
4					
	_	= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worl	
1					Multiply by:
2					x 1 =
3					x 2 =
5					x 3 =
·		= Total Co	ver		x 4 =
Herb Stratum (Plot size: 1m^2					x 5 =
1. Fes. per.	30	Y	FAC		(A)(B)
2. Hor. mar.	35	Y	FAC		
3. Bro. hor.	10	N	FACU		= B/A =
4. Ely. cap-med.	5	N	UPL	Hydrophytic Vegetatio	
5				<u>✓</u> Dominance Test is	
6				Prevalence Index is	
7					ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8				Problematic Hydror	ohytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)	- 80	= Total Co	ver		
1					l and wetland hydrology must
2				be present, unless distu	irbed or problematic.
		= Total Co	ver	Hydrophytic	
% Bare Ground in Herb Stratum 20	of Biotic Cr	rust 0	<u> </u>	Vegetation Present? Yes	s No
Remarks:				<u>I</u>	
20% unidentifiable thatch					

Profile Desc	ription: (Describe	to the de	oth needed to docu	ment the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix			x Feature		. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5YR 3/2	96	5YR 4/6	_ 4	<u>C</u>	M/PL	SiC	
		-						
				_				·
	-			_	· <del></del>		-	
				_				
							-	
1Turner C. Co	neestration D Den	lation DM	Doduced Metrix C	C Covers	d or Coot		21.00	potion, DL Doro Lining M Motrix
			I=Reduced Matrix, C I LRRs, unless othe			ed Sand Gi		cation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol		abic to ai	Sandy Red		cu.,			Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					Muck (A10) (LRR B)
Black His			Loamy Mud	, ,	ıl (F1)			ed Vertic (F18)
	n Sulfide (A4)		Loamy Gle					arent Material (TF2)
	Layers (A5) (LRR	C)	Depleted M		(1 =)			(Explain in Remarks)
	ick (A9) ( <b>LRR D</b> )	-,	Redox Dar	` ,	(F6)			(Σ. μ )
	d Below Dark Surfac	e (A11)	Depleted D		. ,			
Thick Da	ark Surface (A12)		✓ Redox Dep	ressions (	F8)		<sup>3</sup> Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland	hydrology must be present,
	lleyed Matrix (S4)						unless d	isturbed or problematic.
	ayer (if present):							
Type: Cla	У							
Depth (inc	ches): <u>3</u>						Hydric Soil	Present? Yes No
Remarks:							l	
HYDROLO	GY							
	drology Indicators:							
•	•		al abaal all that are	L A			0	
	•	one require	ed; check all that app					ndary Indicators (2 or more required)
Surface	` '		Salt Crust	` '			· · · · · · · · · · · · · · · · · · ·	/ater Marks (B1) (Riverine)
	iter Table (A2)		Biotic Cru					ediment Deposits (B2) (Riverine)
Saturation	,		Aquatic In					rift Deposits (B3) (Riverine)
	arks (B1) (Nonriver		Hydrogen		, ,			rainage Patterns (B10)
	nt Deposits (B2) (No				_	•		ry-Season Water Table (C2)
	oosits (B3) (Nonrive	rine)	Presence					rayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	on Reducti	ion in Tille	ed Soils (C6		aturation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial	Imagery (E	37) Thin Mucl	k Surface (	(C7)		s	hallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		F	AC-Neutral Test (D5)
Field Observ	vations:							
Surface Water	er Present? Y	'es	No <u>✓</u> Depth (in	iches):				
Water Table	Present? Y	'es	No <u>√</u> Depth (in	iches):				
Saturation Pr	resent? Y	'es	No <u>✓</u> Depth (in	iches):		Wetla	and Hydrolog	y Present? Yes No
(includes cap	oillary fringe)							<u> </u>
Describe Red	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pr	evious in	spections),	if available:	
Remarks:								

Project/Site: SSEP	(	City/County	: Sacramer	nto County	Samp	ling Date: _	11/13	/2020
Applicant/Owner:				State:	CA Samp	ling Point: _	22	27
Investigator(s): LB, AG								
				convex, none): no				0.5
Subregion (LRR): C	Lat: 38.4	16307751		Long: -121.183	779	Datu	m: WGS	584
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI o				
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	,					
Are Vegetation, Soil, or Hydrology sig				Normal Circumsta			/ No	)
Are Vegetation, Soil, or Hydrology na			(If ne	eded, explain any	answers in R	emarks.)		
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point lo	ocations, tran	sects, imp	ortant fe	atures	s, etc.
Hydrophytic Vegetation Present? Yes No		le th	e Sampled	Aroa				
Hydric Soil Present? Yes No			in a Wetlan		sN	No 🗸		
Wetland Hydrology Present? Yes No					· ·			
Remarks:								
Upland point to 226 (SW-49)								
VEGETATION – Use scientific names of plants	s.							
		Dominant		Dominance Tes	st worksheet:			
,	% Cover			Number of Dom That Are OBL, F			ı	(1)
1 2								(A)
3				Total Number of Species Across		3	<u> </u>	(B)
4.								(-)
	_	= Total Co		Percent of Domi That Are OBL, F	nant Species FACW, or FAC	:0	)	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Ind				
1				Total % Cov			v bv	
3					0			
4				FACW species				_
5					5			_
		= Total Co	ver	FACU species	20	x 4 =	80	_
Herb Stratum (Plot size: 1m^2				UPL species	70	x 5 =	350	_
1. Ely. capmed.	65	Y	UPL	Column Totals:	95	(A)	445	_ (B)
2. Bro. hor.	<u>20</u> 5	Y N	FACU UPL	Prevalence	e Index = B/A	_ 4	.7	
3. <u>Ave. bar.</u> 4. Fes. per.		N	FAC	Hydrophytic Ve				
5			TAC	Dominance	_	0410101		
6				Prevalence				
7				Morphologic	cal Adaptation			ing
8.					Remarks or on		,	
	0=	= Total Co	ver	Problemation	: Hydrophytic \	/egetation	(Explair	า)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hy	dria aail aad u	otland budy		at
1				be present, unle				iust
2		= Total Co		Hydrophytic				
				Vegetation				
	of Biotic Cr	rust(	<u> </u>	Present?	Yes	No	<u></u>	
Remarks:								
5% unidentifiable thatch								

Depth Ma				ox Feature		Loc <sup>2</sup>	Taxture	Domorko
(inches) Color (mois			or (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2	100						SiC	
<del></del>								-
<del></del>								-
Type: C=Concentration, D	-Doplotion F	PM-Podu	and Matrix C	S-Covere	d or Coata	d Sand G	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A						u Sanu G		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	ppiloubic to	un Entito,	Sandy Red		cu.,			Muck (A9) (LRR C)
Histic Epipedon (A2)		-	Stripped M					Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mu		al (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (I	RR C)		Depleted N		,			(Explain in Remarks)
1 cm Muck (A9) (LRR [	<b>D</b> )		_ Redox Dar	k Surface	(F6)			
Depleted Below Dark S	urface (A11)		_ Depleted D	ark Surfac	ce (F7)			
Thick Dark Surface (A1			_ Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (			_ Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed Matrix (S							unless d	listurbed or problematic.
Restrictive Layer (if prese	nt):							
<sub>Type:</sub> <u>Hardpan</u>								
_								
Depth (inches): 2							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No/
Remarks:							Hydric Soil	Present? Yes No
YDROLOGY	tors:						Hydric Soil	Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app	ly)				Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app Salt Crus				Secon	
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur		ired; chec	• •	t (B11)			<u>Seco</u> i	ndary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)			Salt Crus	t (B11) st (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)	n of one requ		Salt Crus Biotic Cru	t (B11) st (B12) nvertebrate	, ,		<u>Secon</u> V S S D	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	n of one requ	- - -	Salt Crus Biotic Cru Aquatic Ir	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roo	Secon	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non	n of one requ riverine) ) (Nonriverin	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ast (B12) avertebrate Sulfide O	dor (C1) eres along	•	<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2)	n of one requ riverine) ) (Nonriverin nriverine)	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) est (B12) evertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	4)	Secon V S D C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non	n of one requiriverine) (Nonriverine) (S)	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille	4)	Secor V S S Cots (C3) S S S S S S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ast (B12) avertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface o plain in Re	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non) Sediment Deposits (B2) Drift Deposits (B3) (Non) Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves (B6) Water Water Present? Water Table Present?	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes Yes	(B7) No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide O Rhizosphe of Reduce on Reducti k Surface ( plain in Re nches):	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tilled (C7) emarks)	H) H Soils (C6	Secon V S D D D C S D C S S S F	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Sincludes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
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Project/Site: SSEP	(	City/County	Sacramer	nto County	Samp	ling Date: _	11/13	/2020
Applicant/Owner:				State:	CA Samp	ling Point: _	22	28
Investigator(s): LB, AG								
				convex, none): noi				0.5
Subregion (LRR): C								
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI c				
Are climatic / hydrologic conditions on the site typical for this			,					-
Are Vegetation, Soil, or Hydrology sig				Normal Circumsta			/ No	1
Are Vegetation, Soil, or Hydrology na				eded, explain any				'
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point id	ocations, trans	sects, imp	ortant te	atures	s, etc.
Hydrophytic Vegetation Present? Yes No		le th	e Sampled	Δrea				
Hydric Soil Present? Yes No			in a Wetlan		s N	√ v		
Wetland Hydrology Present? Yes No		With	in a wetian	10.	· ·		•	
Remarks:								
Upland point to 229 (SW-50)								
VEGETATION – Use scientific names of plant	s.							
	Absolute	Dominant	Indicator	Dominance Tes	t worksheet:			
		Species?		Number of Domi				
1				That Are OBL, F.	ACW, or FAC	: 0		(A)
2				Total Number of		า		
3				Species Across /	All Strata:	3		(B)
4	_	= Total Co		Percent of Domin	nant Species		1	(A /D)
Sapling/Shrub Stratum (Plot size:)		= 10tai 00	VCI	That Are OBL, F.	ACVV, or FAC	:	<u>'</u>	(A/B)
1				Prevalence Inde				
2				Total % Cov				
3					0			_
4				FACW species				-
5					5		80	-
Herb Stratum (Plot size: 1m^2 )		= Total Co	ver	FACU species UPL species			350	-
1. Ely. capmed.	65	Υ	UPL	Column Totals:			445	- (D)
2. Bro. hor.	20	Y	FACU	Column Totals:		(A)	773	_ (B)
3. Ave. bar.	5	N	UPL	Prevalence	e Index = B/A	=4	.7	_
4. Fes. per.	5	N	FAC	Hydrophytic Ve	getation Indi	cators:		
5				Dominance				
6				Prevalence				
7					al Adaptation emarks or on			ing
8				Problematic		•	,	n)
Woody Vine Stratum (Plot size:)	95	= Total Co	ver	1100101114110	riyaropriyao	regolation	(Explain	')
1				<sup>1</sup> Indicators of hyd	dric soil and w	etland hydr	rology m	nust
2				be present, unles				
		= Total Co	ver	Hydrophytic				
% Bare Ground in Herb Stratum5	of Biotic Cr			Vegetation Present?	Vos	No	,	
% Bare Ground in Herb Stratum 5	or Diotic Cl	uoi		r resent!	169	No		
5% unidentifiable thatch								
370 unidentinable triatti								

Depth Ma				ox Feature		Loc <sup>2</sup>	Taxture	Domorko
(inches) Color (mois			or (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2	100						SiC	
<del></del>								-
<del></del>								-
Type: C=Concentration, D	-Doplotion F	PM-Podu	and Matrix C	S-Covere	d or Coata	d Sand G	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A						u Sanu G		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	ppiloubic to	un Entito,	Sandy Red		cu.,			Muck (A9) (LRR C)
Histic Epipedon (A2)		-	Stripped M					Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mu		al (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (I	RR C)		Depleted N		,			(Explain in Remarks)
1 cm Muck (A9) (LRR [	<b>D</b> )		_ Redox Dar	k Surface	(F6)			
Depleted Below Dark S	urface (A11)		_ Depleted D	ark Surfac	ce (F7)			
Thick Dark Surface (A1			_ Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (			_ Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed Matrix (S							unless d	listurbed or problematic.
Restrictive Layer (if prese	nt):							
<sub>Type:</sub> <u>Hardpan</u>								
_								
Depth (inches): 2							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No/
Remarks:							Hydric Soil	Present? Yes No
YDROLOGY	tors:						Hydric Soil	Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app	ly)				Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app Salt Crus				Secon	
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur		ired; chec	• •	t (B11)			<u>Seco</u> i	ndary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)			Salt Crus	t (B11) st (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)	n of one requ		Salt Crus Biotic Cru	t (B11) st (B12) nvertebrate	, ,		<u>Seco</u> r V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	n of one requ	- - -	Salt Crus Biotic Cru Aquatic Ir	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roo	Secon	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non	n of one requ riverine) ) (Nonriverin	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ast (B12) avertebrate Sulfide O	dor (C1) eres along	•	<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2)	n of one requ riverine) ) (Nonriverin nriverine)	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) est (B12) evertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	4)	Secon V S D C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
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YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ast (B12) avertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface o plain in Re	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non) Sediment Deposits (B2) Drift Deposits (B3) (Non) Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves (B6) Water Water Present? Water Table Present?	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes Yes	(B7) No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide O Rhizosphe of Reduce on Reducti k Surface ( plain in Re nches):	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tilled (C7) emarks)	H) H Soils (C6	Secon V S D D D C S D C S S S F	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Sincludes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
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Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
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YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

Project/Site: SSEP	City/Co	<sub>ounty:</sub> <u>Sacramen</u>	ito County	Sampling Date: 11/13/2020
Applicant/Owner:			State: CA	Sampling Point: 229
Investigator(s): LB, AG	Sectio	n, Township, Ran	ge: Township 7N / Ra	nge 7E / Section 14
Landform (hillslope, terrace, etc.): bottomland	Local	relief (concave, co	onvex, none): concave	Slope (%):0
Subregion (LRR): C	Lat: 38.46275	5597	Long: -121.1835884	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	6 slopes		NWI classific	cation: n/a
Are climatic / hydrologic conditions on the site typical for this	time of year? Ye	es <u>√</u> No	(If no, explain in R	lemarks.)
Are Vegetation, Soil, or Hydrology signature.				oresent? Yes _ ✓ No
Are Vegetation, Soil, or Hydrology na			eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s			cations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No				
Hydric Soil Present? Yes No		Is the Sampled within a Wetland		, No
Wetland Hydrology Present? Yes No	'	within a wetiant	ur res	NO
Remarks:				
Within SW-50. Microdepression in grasslan	d			
VEGETATION – Use scientific names of plant	 S.			
		inant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size:)	% Cover Spec		Number of Dominant S	pecies
1			That Are OBL, FACW,	or FAC:1 (A)
2			Total Number of Domin	
3			Species Across All Stra	ata: 1 (B)
4	= Tot		Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)	= 100	.ai Covei	That Are OBL, FACW,	or FAC: 100 (A/B)
1			Prevalence Index wor	ksheet:
2				Multiply by:
3				x 1 =
4				x 2 =
5				x 3 =
Herb Stratum (Plot size: 1m^2)	0 = Tot	al Cover	UPL species	x 4 =
1. Fes. per.	90	Y FAC		(A) (B)
2. Hor. mar.	10N	N FAC		
3				= B/A =
4			Hydrophytic Vegetation	
5			<u>✓</u> Dominance Test is	
6			Prevalence Index is	s ≤3.0° ptations¹ (Provide supporting
7				s or on a separate sheet)
8	100 = Tot		Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	= 100	ai Cover		
1				il and wetland hydrology must
2			be present, unless distu	urbed or problematic.
	= Tot	al Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	of Biotic Crust _	0	Present? Ye	s/ No
Remarks:				

Profile Description: (Descri	-						,
Depth Matri (inches) Color (moist)		Red Color (moist)	lox Feature %	SType <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
		5YR 4/6		C	M/PL	SiC	Nemarks
0-4 7.5YR 3/2	95	31K 4/0			IVI/PL	SIC	
	<del></del>			· <del></del>	-	-	
- <u></u> -							
	<del></del>						
<del></del>				·			
<sup>1</sup> Type: C=Concentration, D=I					ed Sand G		Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (App	plicable to all I			ed.)			ors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Red					m Muck (A9) ( <b>LRR C</b> )
Histic Epipedon (A2)		Stripped M	. ,				m Muck (A10) (LRR B)
Black Histic (A3)			icky Minera				duced Vertic (F18)
Hydrogen Sulfide (A4)			eyed Matrix	(F2)			d Parent Material (TF2)
Stratified Layers (A5) (LR			Matrix (F3)			Oth	er (Explain in Remarks)
1 cm Muck (A9) ( <b>LRR D</b> )		Redox Da		. ,			
Depleted Below Dark Sur			Dark Surfac	, ,		3	
Thick Dark Surface (A12)			pressions (	F8)			ors of hydrophytic vegetation and
Sandy Mucky Mineral (S1		Vernal Poo	ols (F9)				nd hydrology must be present,
Sandy Gleyed Matrix (S4						unles	s disturbed or problematic.
Restrictive Layer (if present	ı):						
Type: Clay							
Depth (inches): 4		<del></del>				Hydric S	Soil Present? Yes No
Remarks:							
HADBOI OGA							
Wetland Hydrology Indicato							
Wetland Hydrology Indicator Primary Indicators (minimum							condary Indicators (2 or more required)
Wetland Hydrology Indicato		Salt Crus	st (B11)			_	Water Marks (B1) (Riverine)
Wetland Hydrology Indicator Primary Indicators (minimum		Salt Crus	st (B11) ust (B12)			_	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicator  Primary Indicators (minimum of Surface Water (A1)		Salt Crus	st (B11) ust (B12)	es (B13)		_	Water Marks (B1) (Riverine)
Wetland Hydrology Indicator  Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)	of one required	Salt Crus	st (B11) ust (B12) nvertebrate				Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators  Primary Indicators (minimum of the second	of one required verine)	Salt Crus Biotic Cru Aquatic II Hydroger	st (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)	Living Roo		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	of one required verine) (Nonriverine)	Salt Crus Biotic Cru Aquatic II Hydroger	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	_		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	of one required verine) (Nonriverine) iverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	dor (C1) res along ed Iron (C4	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	of one required verine) (Nonriverine) iverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti	dor (C1) eres along ed Iron (C4 ion in Tille	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators  Primary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2) (Nonri  Drift Deposits (B3) (Nonri  Surface Soil Cracks (B6)  Inundation Visible on Aeri	of one required verine) (Nonriverine) iverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface (	dor (C1) eres along ed Iron (C4 fon in Tille (C7)	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	of one required verine) (Nonriverine) iverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti	dor (C1) eres along ed Iron (C4 fon in Tille (C7)	1)	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	verine) (Nonriverine) iverine) ial Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface e xplain in Re	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	t) d Soils (C6	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicator  Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2) (Nonri  Drift Deposits (B3) (Nonri  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Water-Stained Leaves (Billed Observations:  Surface Water Present?	verine) (Nonriverine) iverine) ital Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re	dor (C1) eres along ed Iron (C- tion in Tille (C7) emarks)	t) d Soils (Ce	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	verine) (Nonriverine) iverine) ial Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	verine) (Nonriverine) iverine) ial Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches):	dor (C1) eres along ed Iron (C- ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators  Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonrimum of Sediment Deposits (B2) (Nonrimum of Sediment Deposits (B3) (Nonrimum of Surface Soil Cracks (B6)  Inundation Visible on Aerimum of Water-Stained Leaves (Beding of Series of Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)	verine) (Nonriverine) iverine) ial Imagery (B7 9)  Yes N Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	verine) (Nonriverine) iverine) ial Imagery (B7 9)  Yes N Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	verine) (Nonriverine) iverine) ial Imagery (B7 9)  Yes N Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonri  Sediment Deposits (B2) ( Drift Deposits (B3) (Nonri Surface Soil Cracks (B6) Inundation Visible on Aeri Water-Stained Leaves (Birled Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	verine) (Nonriverine) iverine) ial Imagery (B7 9)  Yes N Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	verine) (Nonriverine) iverine) ial Imagery (B7 9)  Yes N Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	verine) (Nonriverine) iverine) ial Imagery (B7 9)  Yes N Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicator  Primary Indicators (minimum of the second o	verine) (Nonriverine) iverine) ial Imagery (B7 9)  Yes N Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	dor (C1) eres along ed Iron (C4 ion in Tille (C7) emarks)	4) d Soils (Ce	ots (C3) 6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: SSEP	(	City/County:	Sacrame	nto County	Sampling Date: 11/13/2020
Applicant/Owner:	State: CA	Sampling Point: 232			
Investigator(s): LB, AG	;	Section, To	wnship, Rar	nge: Township 7N / Ra	nge 7E / Section 14
Landform (hillslope, terrace, etc.): bottomland		Local relief	(concave, o	convex, none): concave	Slope (%):0
Subregion (LRR): C	Lat: 38.4	6230421		Long: -121.182555	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	slopes			NWI classific	eation: n/a
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	✓ No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology sig	gnificantly of	disturbed?	Are "	'Normal Circumstances" p	oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na			(If ne	eded, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point lo	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No		ls th	e Sampled	Area	
Hydric Soil Present? Yes No			in a Wetlan		No
Wetland Hydrology Present? Yes No					
Remarks:					
Within VP-16. Depression in grassland.					
VEGETATION – Use scientific names of plants	s.				
		Dominant		Dominance Test work	sheet:
,		Species?		Number of Dominant Sp That Are OBL, FACW, of	
1 2					
3				Total Number of Domina Species Across All Stra	
4.					( ,
	_	= Total Co		Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worl	kshoot:
1					Multiply by:
3					x 1 =
4					x 2 =
5					x 3 =
		= Total Co	ver	FACU species	x 4 =
Herb Stratum (Plot size: 1m^2)	F0	V	OBL	UPL species	x 5 =
1. Ele. mac.	50	Y	OBL OBL	Column Totals:	(A) (B)
2. <u>Ery. cas.</u> 3. Fes. per.	<u>10</u> 5	N	FAC	Prevalence Index	= B/A =
4. Poa sec.		N	FACU	Hydrophytic Vegetation	
5 Pla. bra.	5	N	FACW	<u>✓</u> Dominance Test is	
6				Prevalence Index is	
7				Morphological Adap	ptations <sup>1</sup> (Provide supporting
8.					s or on a separate sheet)
		= Total Co	ver	Problematic Hydrop	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of bydric soil	l and wetland hydrology must
1				be present, unless distu	
2		= Total Co	ver	Hydrophytic	
% Bare Ground in Herb Stratum 28 % Cover of				Vegetation	a d Na
	of Biotic Cr	ust 0	·	Present? Yes	s/_ No
Remarks:					
5% thatch					

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absen	ce of indicators.)
Depth	Matrix			x Feature	es1	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-4	7.5YR 3/2	96	5YR 4/6	4	С	PL	SiC	
								<u> </u>
	_		-		-	·	<u> </u>	<del>-</del>
							<u> </u>	
l ———					-			
			-		·	·		
	oncentration, D=Dep					ed Sand G		Location: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all			ed.)			ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Red					n Muck (A9) (LRR C)
	pipedon (A2)		Stripped M		1 (=4)			n Muck (A10) (LRR B)
	istic (A3)		Loamy Mud					luced Vertic (F18)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b> (	<b>C</b> )	Loamy Gle Depleted M	•	( (FZ)			l Parent Material (TF2) er (Explain in Remarks)
	uck (A9) (LRR D)	<b>C</b> )	Depleted iv	. ,	(F6)		Our	ei (Expiaiii iii Keiliaiks)
	d Below Dark Surfac	e (A11)	Depleted D		. ,			
	ark Surface (A12)	( ( , , , )	Redox Dep				3Indicato	ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		/			nd hydrology must be present,
	Bleyed Matrix (S4)		<del>_</del>	, ,				s disturbed or problematic.
Restrictive	Layer (if present):							
Type: Cla	ау							
Depth (in	ches): 4						Hydric S	oil Present? Yes ✓ No
Remarks:	,							
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	ne require	d; check all that app	ly)			Sec	condary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)				Water Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				Sediment Deposits (B2) (Riverine)
Saturation	, ,		Aquatic In		es (B13)			Drift Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b> r	ine)	Hydrogen					Drainage Patterns (B10)
	nt Deposits (B2) (No					Livina Ro		Dry-Season Water Table (C2)
	posits (B3) (Nonrive	•	Presence		_	_		Crayfish Burrows (C8)
	Soil Cracks (B6)		Recent Iro		•	•	·	Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B				(0		Shallow Aquitard (D3)
	stained Leaves (B9)	imagory (D	Other (Ex		. ,			FAC-Neutral Test (D5)
Field Obser			01101 (EX	pidiii iii ik	Jilianto,			Trio House Foot (20)
Surface Wat		<b>'</b> 00	No <u>✓</u> Depth (ir	chee).				
Water Table			No <u>√</u> Depth (ir					D 40 W 4 W
Saturation P (includes car		'es	No <u>✓</u> Depth (ir	iches):		wet	land Hydrol	ogy Present? Yes No
	corded Data (stream	gauge, mo	onitoring well, aerial	photos, pi	revious in:	spections)	, if available:	
	`					. ,		
Remarks:								
rtomanto.								

Applicant/Ovner	Project/Site: SSEP		City/County	: Sacramer	nto County	_ Sampling [	Date: 11/1	3/2020
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none. Slope (%): 0 Subregion (LRR): C Lat: 38.46231742 Long: 121.1827039 Datum:    NWi classification: ft/3a Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No (If no. explain in Remarks.) Are vegetation Soll or Hydrology inspiralized for this time of year? Yes ✓ No (If no. explain in Remarks.) Are vegetation Soll or Hydrology inspiralized for this time of year? Yes ✓ No (If no. explain any answers in Remarks.)  Are Vegetation Soll or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.    Hydrophytic Vegetation Present? Yes No ✓   Is the Sampled Area within a Wetland? Yes No ✓   Is the Sampled Area within a Wetland? Yes No ✓   Is the Sampled Area within a Wetland? Yes No ✓   Is the Sampled Area within a Wetland?   Yes No ✓   Is the Sampled Area within a Wet	Applicant/Owner:		State: CA	_ Sampling F	oint:	233		
Subregion (LRR): C	Investigator(s): LB, AG		Section, To	wnship, Rar	nge: Township 7N / Ra	ange 7E / Se	ection 14	
Soil Map Unit Name:   Hadselville-Pentz Complex, 2 - 30% slopes   New classification:   N/a	Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): none		_ Slope (%)	: 0
Soil Map Unit Name:   Hadselville-Pentz Complex, 2 - 30% slopes   New classification:   N/a	Subregion (LRR): C	Lat: 38.4	6231742		Long: -121.1827039		Datum:	
Are Climatic / hydrologic conditions on the site typical for this time of year? Yes								
Are Vegetation	•			,				
Are Vegetation, Soil, or Hydrologynaturally problematic?							es ✓ N	10
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.    Hydrophytic Vegetation Present?								
Hydrophytic Vegetation Present?   Yes								es, etc.
Hydro Soil Present?   Yes				<u> </u>	•			<u> </u>
Wetland Hydrology Present?   Yes				_				
Remarks:   Upland point to 232 (VP-16)			with	in a Wetlan	id? Yes	No _		
VEGETATION – Use scientific names of plants.           Tree Stratum (Plot size:)         Absolute % Cover Species? Status Status Number of Dominant Species That Are OBL, FACW, or FAC:			<u> </u>					
Absolute   Dominant Indicator   Species   Status	Upland point to 232 (VP-16)							
Absolute   Dominant Indicator   Species   Status								
Absolute   Dominant Indicator   Species   Status	VECETATION . Her exicutific names of plant							
Number of Dominant Species   That Are OBL, FACW, or FAC:   0   (A)	<u> </u>		D	L. P. L.	B	Labari		
1.								
2.							0	(A)
Species Across All Strata:   3   (B)					Total Number of Domi	nant		
Sapling/Shrub Stratum (Plot size:	3						3	(B)
Sapling/Shrub Stratum (Plot size:	4				Percent of Dominant S	Species		
1.	Sanling/Shruh Stratum (Plot size:	0	= Total Co	ver	That Are OBL, FACW,	or FAC: _	0	(A/B)
2.					Prevalence Index wo	rksheet:		
3.					Total % Cover of:		Multiply by:	
4								
Herb Stratum (Plot size: 1m^2 )					FACW species 0	x 2 =	<u> </u>	
Herb Stratum (Plot size: 1m^2 )   1. Ely. capmed.   85	5						•	_
1. Ely. capmed.       85       Y       UPL Column Totals:       X s = 430 Column Totals:	Hart Ourses (Place) 1m^2	0	= Total Co	ver	-			
2. Hol. vir.   5 N UPL   Prevalence Index = B/A = 4.9   Hydrophytic Vegetation Indicators:   Dominance Test is >50%   Prevalence Index is ≤3.0¹   Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)   Problematic Hydrophytic Vegetation¹ (Explain)	<u> </u>	85	Υ	UPI	-			
3. Bro. hor.  10 N FACU Prevalence Index = B/A = 4.9  Hydrophytic Vegetation Indicators:  Dominance Test is >50% Prevalence Index is ≤3.0¹  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  10 = Total Cover    100 = Total Cover					Column Totals:1	<u>UU</u> (A)	490	(B)
4		10	N		Prevalence Inde	x = B/A =	4.9	
5					Hydrophytic Vegetat	ion Indicator	rs:	
7 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Woody Vine Stratum (Plot size:)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  2 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  2 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  3 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
8	6							
Moody Vine Stratum (Plot size:)	7							
Woody Vine Stratum (Plot size:)  1	8							
1	Woody Vine Stratum (Plot size:	100	= Total Co	ver		, p., ,	(=//p/c	<i>)</i>
2					<sup>1</sup> Indicators of hydric so	oil and wetlan	d hydrology	must
					be present, unless dis	turbed or pro	blematic.	
% Bare Ground in Herb Stratum 0		_		ver				
	% Bare Ground in Herb Stratum 0 % Cover	of Biotic Cr	ust (	)		es	No ✓	

Depth Ma				ox Feature		Loc <sup>2</sup>	Taxture	Domorko
(inches) Color (mois			or (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u>	Remarks
0-2 10YR 3/2	100						SiC	
<del></del>								-
<del></del>								-
Type: C=Concentration, D	-Doplotion F	PM-Podu	and Matrix C	S-Covere	d or Coata	d Sand G	rains <sup>2</sup> l o	cation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A						u Sanu G		for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	ppiloubic to	un Entito,	Sandy Red		cu.,			Muck (A9) (LRR C)
Histic Epipedon (A2)		-	Stripped M					Muck (A10) (LRR B)
Black Histic (A3)			Loamy Mu		al (F1)		· · · · · · · · · · · · · · · · · · ·	ced Vertic (F18)
Hydrogen Sulfide (A4)			Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (I	RR C)		Depleted N		,			(Explain in Remarks)
1 cm Muck (A9) (LRR [	<b>D</b> )		_ Redox Dar	k Surface	(F6)			
Depleted Below Dark S	urface (A11)		_ Depleted D	ark Surfac	ce (F7)			
Thick Dark Surface (A1			_ Redox Dep		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (			_ Vernal Poo	ls (F9)				hydrology must be present,
Sandy Gleyed Matrix (S							unless d	listurbed or problematic.
Restrictive Layer (if prese	nt):							
<sub>Type:</sub> <u>Hardpan</u>								
_								
Depth (inches): 2							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No
							Hydric Soil	Present? Yes No/
Remarks:							Hydric Soil	Present? Yes No
YDROLOGY	tors:						Hydric Soil	Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app	ly)				Present? Yes No
Remarks:  YDROLOGY  Wetland Hydrology Indica		ired; chec	k all that app Salt Crus				Secon	
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur		ired; chec	• •	t (B11)			<u>Seco</u> i	ndary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)			Salt Crus	t (B11) st (B12)	es (B13)		<u>Secor</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)	n of one requ		Salt Crus Biotic Cru	t (B11) st (B12) nvertebrate	, ,		<u>Seco</u> r V S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	n of one requ	- - -	Salt Crus Biotic Cru Aquatic Ir	t (B11) ast (B12) avertebrate Sulfide O	dor (C1)	Living Roo	Secon	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non	n of one requ riverine) ) (Nonriverin	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	t (B11) ast (B12) avertebrate Sulfide O	dor (C1) eres along	•	<u>Secon</u> V S D	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2)	n of one requ riverine) ) (Nonriverin nriverine)	- - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	t (B11) est (B12) evertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	4)	Secon V S D C	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non	n of one requiriverine) (Nonriverine) (S)	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) st (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tille	4)	Secor V S S Cots (C3) S S S S S S	ndary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves	riverine) (Nonriverine) (Nonriverine) (S) (erial Imagery	- - - - - - -	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ust (B12) uvertebrate u Sulfide O Rhizosphe of Reduce on Reducti k Surface o	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations:	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes		Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) ast (B12) avertebrate a Sulfide O Rhizosphe of Reduce on Reducti k Surface o plain in Re	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secon  V S D D D D S S S	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Primary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non) Sediment Deposits (B2) Drift Deposits (B3) (Non) Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves (B6) Water Water Present? Water Table Present?	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9) Yes Yes	(B7) No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) nvertebrate li Sulfide O Rhizosphe of Reduce on Reducti k Surface ( plain in Re nches):	dor (C1) eres along ed Iron (C <sup>2</sup> ion in Tilled (C7) emarks)	H) H Soils (C6	Secon V S D D D C S D C S S S F	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Sincludes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Orift Deposits (B3) (Riverine)  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): lin	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Non Surface Soil Cracks (B6) Inundation Visible on A Water-Stained Leaves Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
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YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOGY  Wetland Hydrology Indica  Primary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Non  Sediment Deposits (B2)  Drift Deposits (B3) (Non  Surface Soil Cracks (B6)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  includes capillary fringe)  Describe Recorded Data (st	n of one requiriverine) (Nonriverine) (S) erial Imagery (B9)  Yes Yes Yes	(B7) No _ No _ No	Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	t (B11) list (B12) livertebrate li Sulfide O Rhizosphe of Reduce on Reducti lk Surface ( liplain in Re linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches): linches	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Ce	Secor V S D	ndary Indicators (2 or more required)  Vater Marks (B1) ( <b>Riverine</b> )  Sediment Deposits (B2) ( <b>Riverine</b> )  Orift Deposits (B3) ( <b>Riverine</b> )  Orainage Patterns (B10)  Ory-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

Project/Site: SSEP		City/County	<sub>/:</sub> <u>Sacrame</u> ı	nto County	Samplinç	Date: 11	/13/2020
Applicant/Owner:				State: CA	Samplinç	Point:	234
Investigator(s): LB, AG		Section, To	ownship, Rar	nge: Township 7N /	Range 7E /	Section 14	1
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave, c	convex, none): none		Slope (	%):0
Subregion (LRR): C	Lat: 38.4	6695412		Long: -121.185454	5	Datum: \	WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%	6 slopes			NWI class	sification: n/a	1	
Are climatic / hydrologic conditions on the site typical for this	time of year	ar? Yes	,				
Are Vegetation, Soil, or Hydrology signature.	gnificantly o	disturbed?	Are "	Normal Circumstances	s" present?	Yes <u>√</u>	No
Are Vegetation, Soil, or Hydrology na				eded, explain any ans	wers in Rema	arks.)	
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	ng point lo	ocations, transec	ts, import	tant featu	ıres, etc.
Hydrophytic Vegetation Present? Yes No		ls th	ne Sampled	Area			
Hydric Soil Present? Yes No			in a Wetlan		No	<i>'</i>	
Wetland Hydrology Present? Yes No Remarks:							
Point taken within feature previously mapp	ad by SS	SHCD					
Point taken within reacure previously mapp	ied by 3.	DITCE					
VEGETATION – Use scientific names of plant	s.						
Tree Stratum (Plot size:)	Absolute % Cover			Dominance Test wo			
1				Number of Dominant That Are OBL, FACV		0	(A)
2							( )
3				Total Number of Dor Species Across All S		3	(B)
4				Percent of Dominant	t Species		
Conline/Chruh Ctratum (Diet eine	0	= Total Co	over	That Are OBL, FACV	N, or FAC:	0	(A/B)
Sapling/Shrub Stratum (Plot size:)  1				Prevalence Index w	orksheet:		
2.				Total % Cover o		Multiply by	<i>'</i> :
3					x 1		
4.				FACW species 0			
5					x 3		
Herb Stratum (Plot size: 1m^2)	0	= Total Co	over	FACU species 40			
4 Ely can mod	40	Υ	UPL	UPL species 60			
2. Bro. hor.	40	Y	FACU	Column Totals:	100 (A)	360	) (B)
3. Hol. vir.	20	Y	UPL	Prevalence Ind	dex = B/A =	3.6	
4.				Hydrophytic Vegeta			<u></u>
5.			· - <del></del> -	Dominance Test	t is >50%		
6				Prevalence Inde	x is ≤3.0 <sup>1</sup>		
7			<u> </u>	Morphological A			
8				data in Rema Problematic Hyd		•	•
Woody Vine Stratum (Plot size:)	100	= Total Co	over	Troblematic riye	nopriyue veg	ctation (L)	фіанту
1				<sup>1</sup> Indicators of hydric	soil and wetla	and hydrolo	gy must
2				be present, unless d			
	_	= Total Co	over	Hydrophytic			
% Bare Ground in Herb Stratum 0	of Biotic Cr	ust (	0	Vegetation Present?	Yes	No ✓	
Remarks:		- = -					_

	cription: (Describe	to the dept			dicator	or confirn	n the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100	, <u>,</u>				SiC	
	-							
						-		
1								
	oncentration, D=Dep					d Sand G		ntion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
•	Indicators: (Applic	able to all I			u.)			•
Histosol	pipedon (A2)		Sandy Red Stripped Ma	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
	istic (A3)			cky Mineral (	(F1)			d Vertic (F18)
	en Sulfide (A4)			yed Matrix (				rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted M		/			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /		Surface (F	·6)			,
	d Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)			
	ark Surface (A12)			ressions (F8	8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Туре: <u>На</u>								
Depth (in	ches): <u>2</u>						Hydric Soil F	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary Indi	cators (minimum of o	one required	; check all that appl	y)			Second	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturati			Aquatic In		(B13)			ft Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen		` '			ainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized F			Living Ro	· · · · · · · · · · · · · · · · · · ·	y-Season Water Table (C2)
	posits (B3) (Nonrive			of Reduced	_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro	n Reduction	n in Tilled	d Soils (C		turation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7		Surface (C		,		allow Aquitard (D3)
	Stained Leaves (B9)	0 , (		olain in Rem			FA	C-Neutral Test (D5)
Field Obser	vations:							· · ·
Surface Wat	ter Present?	′es N	No <u>✓</u> Depth (in	ches):				
Water Table			No <u>✓</u> Depth (in					
Saturation P			No <u>✓</u> Depth (in				land Hydrology	Present? Yes No
	pillary fringe)	C3 1	vo <u>v</u> Deptii (iii	Ci ies)		_   ""	and riyarology	resent: res no
	corded Data (stream	n gauge, mo	nitoring well, aerial	photos, prev	vious ins	pections),	if available:	
Remarks:								

Project/Site: SSEP	(	City/County	Sacrame	nto County	Sampling Date: 11/13/2020
Applicant/Owner:				State: CA	Sampling Point: 235
Investigator(s): LB, AG	;	Section, To	wnship, Raı	nge: Township 7N / Rai	nge 7E / Section 14
Landform (hillslope, terrace, etc.): bottomland		Local relief	(concave, o	convex, none): concave	Slope (%):0
Subregion (LRR): C	_ Lat: 38.4	16288681		Long: -121.1820348	Datum: WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 309	% slopes			NWI classific	ation: n/a
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	,		
Are Vegetation, Soil, or Hydrologysi					oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na				eeded, explain any answei	
SUMMARY OF FINDINGS – Attach site map s					
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   No  Yes   No  No  No  No  No  No  No  No  No  N	o		e Sampled in a Wetlar		No
Remarks:	<u>,</u>				
Within SW-51. Depression in grassland.					
д том от от от от от от от от от от от от от					
VEGETATION II : ('C' )					
VEGETATION – Use scientific names of plant			1 2 4	<del></del>	
Tree Stratum (Plot size:)	% Cover	Dominant Species?		Number of Dominant Sp	
1				That Are OBL, FACW, of	
2				Total Number of Domina	ant
3				Species Across All Stra	ta: <u>2</u> (B)
4	_			Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, o	or FAC: 100 (A/B)
1				Prevalence Index work	ksheet:
2				Total % Cover of:	Multiply by:
3					x 1 =
4					x 2 =
5					x 3 =
Herb Stratum (Plot size: 1m^2		= Total Co	ver		x 4 = x 5 =
1. Fes. per.	45	Υ	FAC		(A) (B)
2. Hor. mar.		<u> </u>	FAC		
3					= B/A =
4				Hydrophytic Vegetation	
5				✓ Dominance Test is	
6				Prevalence Index is	s ≤3.0 ptations¹ (Provide supporting
7					s or on a separate sheet)
8	0 =	= Total Co		Problematic Hydror	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)		= 10tal 00	VCI		
1				<sup>1</sup> Indicators of hydric soil be present, unless distu	l and wetland hydrology must
2			-		——————————————————————————————————————
	0	= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum5 % Cover	of Biotic Cr	ustC	)		s No
Remarks:					
5% thatch					

	cription: (Describe	to the dep				or confirn	n the abse	nce of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc²	Texture	e Remarks
	•	96	5YR 4/6	4	C Type	M/PL	SiC	e Kemarks
0-4	7.5YR 3/1	90	31K 4/0	_ 4		IVI/PL	SIC	<del></del>
	<del></del>						-	<u> </u>
								<u> </u>
	<del></del>				-			
<del> </del>	·							
	Concentration, D=De					ed Sand G		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all	LRRs, unless other	erwise not	ted.)		Indicat	tors for Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Red					cm Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					cm Muck (A10) (LRR B)
	listic (A3)		Loamy Mu					educed Vertic (F18)
	en Sulfide (A4)		Loamy Gle					ed Parent Material (TF2)
	ed Layers (A5) (LRR	C)	Depleted N				Ot	her (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )		Redox Dar		. ,			
	ed Below Dark Surface	ce (A11)	Depleted D		. ,		o.	
	Park Surface (A12)		Redox Dep		(F8)			tors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				and hydrology must be present,
	Gleyed Matrix (S4)						unle	ss disturbed or problematic.
	Layer (if present):							
Type: Cl								
Depth (ir	nches): <u>4</u>						Hydric	Soil Present? Yes V No
Remarks:							ı	
HYDROLO								
Wetland Hy	drology Indicators	:						
Primary Indi	icators (minimum of	one required	d; check all that app	oly)			S	econdary Indicators (2 or more required)
Surface	e Water (A1)		Salt Crus	t (B11)			_	_ Water Marks (B1) (Riverine)
High W	ater Table (A2)		Biotic Cru	ust (B12)				_ Sediment Deposits (B2) (Riverine)
Saturat	` ,		Aquatic Ir		es (B13)			Drift Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b>	rine)	Hydroger				· · · · · · · · · · · · · · · · · · ·	Drainage Patterns (B10)
	ent Deposits (B2) (No					Living Roc		Dry-Season Water Table (C2)
<u> </u>	eposits (B3) (Nonrive	•	Presence		_	_		_ Crayfish Burrows (C8)
		erric)	Recent In		,	*		Saturation Visible on Aerial Imagery (C9)
<u> </u>	e Soil Cracks (B6)	L /D:				a Solis (Ce		
	tion Visible on Aerial	Imagery (B			` '			_ Shallow Aquitard (D3)
	Stained Leaves (B9)		Other (Ex	cplain in Re	emarks)		_	_ FAC-Neutral Test (D5)
Field Obse								
Surface Wa			No <u>✓</u> Depth (ir					
Water Table	e Present?	Yes	No <u>√</u> Depth (ir	nches):				
Saturation F	Present?	Yes	No <u>√</u> Depth (ir	nches):		Wetl	and Hydro	ology Present? Yes No
(includes ca	apillary fringe)							
Describe Re	ecorded Data (stream	n gauge, mo	nitoring well, aerial	photos, p	revious ins	spections),	if available	e:
Remarks:								

Project/Site: SSEP	(	City/County	: Sacramer	nto County	Samplin	g Date: <u>1</u>	1/13/2020
Applicant/Owner:				State: CA	Samplin	g Point:	238
Investigator(s): LB, AG		Section, To	wnship, Rar	nge: Township 7N / I	Range 7E /	Section 1	.4
Landform (hillslope, terrace, etc.): hillslope		Local relief	(concave, c	convex, none): concav	re	Slope	· (%):0
Subregion (LRR): C	Lat: 38.4	6552228		Long: -121.184859	3	Datum:	WGS84
Soil Map Unit Name: Hadselville-Pentz complex, 2 - 30%				NWI class			
Are climatic / hydrologic conditions on the site typical for this			,				
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances			No
Are Vegetation, Soil, or Hydrology na				eded, explain any ansv			
SUMMARY OF FINDINGS – Attach site map s							tures, etc.
			<u> </u>	<u>_</u>			<u> </u>
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			e Sampled				
Wetland Hydrology Present? Yes No		with	in a Wetlan	nd? Yes	No		
Remarks:							
Upland point to 198 (VP-13)							
VEGETATION – Use scientific names of plant	•						
<u> </u>		Daminant	la di satan	Daminana Taat	wheels a st		
		Dominant Species?		Number of Dominant			
1				That Are OBL, FACV		0	(A)
2				Total Number of Don	ninant		
3				Species Across All S		3	(B)
4	_			Percent of Dominant	Species		
Sapling/Shrub Stratum (Plot size:)	0	= Total Co	ver	That Are OBL, FACV	V, or FAC:	0	(A/B)
1				Prevalence Index w	orksheet:		
2.				Total % Cover of	f:	Multiply t	oy:
3				OBL species 0	x	1 =	)
4				FACW species 0			
5					x		
Herb Stratum (Plot size: 1m^2	0	= Total Co	ver	FACU species 40			50 00
1. Ely. capmed.	40	Υ	UPL	UPL species 60 Column Totals:			
2. Bro. hor.	40	Υ	FACU	Column Totals:	100 (A)	)	<u>o0</u> (B)
3. Hol. vir.	20	Υ	UPL	Prevalence Ind	ex = B/A =	3.6	
4				Hydrophytic Vegeta		tors:	
5				Dominance Test			
6				Prevalence Inde			
7				Morphological Addata in Rema			
8	400			Problematic Hyd		•	•
Woody Vine Stratum (Plot size:)	100	= Total Co	ver				
1				<sup>1</sup> Indicators of hydric s			
2				be present, unless di	sturbed or p	roblematic	
	0	= Total Co	ver	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0 % Cover	of Biotic Cr	ustC	)		Yes	No <u></u> ✓	
Remarks:				l			

	cription: (Describe	to the dept			dicator	or confirn	n the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100	, <u>,</u>				SiC	
	-							
						-		
1								
	oncentration, D=Dep					d Sand G		ntion: PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> :
•	Indicators: (Applic	able to all I			u.)			•
Histosol	pipedon (A2)		Sandy Red Stripped Ma	. ,			<del></del>	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> )
	istic (A3)			cky Mineral (	(F1)			d Vertic (F18)
	en Sulfide (A4)			yed Matrix (				rent Material (TF2)
	d Layers (A5) ( <b>LRR</b>	C)	Depleted M		/			Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )	- /		Surface (F	·6)			,
	d Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)			
	ark Surface (A12)			ressions (F8	8)			f hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
	Gleyed Matrix (S4)						unless dis	turbed or problematic.
	Layer (if present):							
Туре: <u>На</u>								
Depth (in	ches): <u>2</u>						Hydric Soil F	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary Indi	cators (minimum of o	one required	; check all that appl	y)			Second	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	` ,				diment Deposits (B2) (Riverine)
Saturati			Aquatic In		(B13)			ft Deposits (B3) (Riverine)
	Marks (B1) ( <b>Nonrive</b> i	rine)	Hydrogen		` '			ainage Patterns (B10)
	nt Deposits (B2) (No		Oxidized F			Living Ro	· · · · · · · · · · · · · · · · · · ·	y-Season Water Table (C2)
	posits (B3) (Nonrive			of Reduced	_	_		ayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro	n Reduction	n in Tilled	d Soils (C		turation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B7		Surface (C		,		allow Aquitard (D3)
	Stained Leaves (B9)	0 , (		olain in Rem			FA	C-Neutral Test (D5)
Field Obser	vations:							· · ·
Surface Wat	ter Present?	′es N	No <u>✓</u> Depth (in	ches):				
Water Table			No <u>✓</u> Depth (in					
Saturation P			No <u>✓</u> Depth (in				land Hydrology	Present? Yes No
	pillary fringe)	C3 1	vo <u>v</u> Deptii (iii	Ci ies)		_   ""	and Hydrology	resent: res no
	corded Data (stream	n gauge, mo	nitoring well, aerial	photos, prev	vious ins	pections),	if available:	
Remarks:								

Project/Site: Sloughhouse Solar Energy Project	City/County: Sacramento C	ounty Sar	mpling Date: 11/9/2020
Applicant/Owner: D.E. Shaw Renewable Investments		State: CA Sar	npling Point: 239
Investigator(s): Allie Sennett, Adam Crawford	Section, Township, Range: 1	ownship 7N / Range	7E / Section 03
Landform (hillslope, terrace, etc.): Flatlands	_ Local relief (concave, conve	x, none): Flat	Slope (%):0
Subregion (LRR): C Lat: 33	3.48213174 Long	g: -121.1905915	Datum: WGS84
Soil Map Unit Name: Reiff fine sandy loam, 0 - 2% slopes, occa		-	
Are climatic / hydrologic conditions on the site typical for this time of y	_		
Are Vegetation ✓, Soil ✓, or Hydrology ✓ significant			ent? Yes No <u>✓</u>
Are Vegetation, Soil, or Hydrology naturally p		explain any answers in	
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locati	ions, transects, im	iportant features, etc.
Hydrophytic Vegetation Present? Yes No ✓			
Hydric Soil Present? Yes No	within a Wetland?	Yes	No ✓
Wetland Hydrology Present? Yes No✓	-		
Remarks:			
Cultivated field in northern extent of site.			
VEGETATION – Use scientific names of plants.			
	r Chanina? Status	ninance Test workshee	
1	INUII	nber of Dominant Specie t Are OBL, FACW, or FA	
2			(,,
3	1016	al Number of Dominant cies Across All Strata:	(B)
4	Per	cent of Dominant Specie	ae
Conline (Chrish Stratum (Diet eine)			AC: (A/B)
Sapling/Shrub Stratum (Plot size:)  1	Pre	valence Index workshe	
2	`	Total % Cover of:	
3.		species	
4		CW species	
5	FAC	Species	_ x 3 =
0	= Total Cover FAC	CU species	_ x 4 =
Herb Stratum (Plot size: 5 m x 5 m )  1. Eragrostis mexicana 3	N FACIL	species	
2. Convolvulus arvensis 2		umn Totals:	_ (A) (B)
3		Prevalence Index = B	3/A =
4.		rophytic Vegetation In	idicators:
5		Dominance Test is >50	
6		Prevalence Index is ≤3.	
7	—	Morphological Adaptation data in Remarks or o	ons <sup>1</sup> (Provide supporting
8		Problematic Hydrophyti	• •
Woody Vine Stratum (Plot size:)	= Total Cover		(=:4::)
1			d wetland hydrology must
2.	l he r	present, unless disturbed	d or problematic.
	_ = Total Cover Hyd	lrophytic	
% Bare Ground in Herb Stratum95	Crust 0 Pres	etation sent?	No <u></u>
Remarks:			
Area is disked vegetation removed from agricultu	ral activities		
The is dished vegetation removed from agriculture	rar activities.		

Profile Desc	cription: (Describe	to the depth ne	eded to docui	nent the i	ndicator o	or confirm	the absenc	e of indicators.)			
Depth	Matrix			x Features	S1	. 2	_				
(inches)	Color (moist)	<u> % C</u>	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks			
0-12	7.5 YR 2.5/2	100					Sandy silt	Well tilled soils			
		<u> </u>									
								·			
		· <del></del>						<del>-</del>			
		. <u> </u>						<u> </u>			
l											
-	-	<del></del>						<del> </del>			
1							. 2.	· <del></del>			
	oncentration, D=Dep					d Sand Gr		ocation: PL=Pore Lining, M=Matrix.			
1 -	Indicators: (Applic				ea.)			rs for Problematic Hydric Soils <sup>3</sup> :			
Histosol	` '	_	_ Sandy Red					Muck (A9) (LRR C)			
-	pipedon (A2)	_	Stripped Ma		(54)			Muck (A10) (LRR B)			
	stic (A3)	_	Loamy Muc					Iced Vertic (F18)			
	en Sulfide (A4) d Layers (A5) ( <b>LRR (</b>		_ Loamy Gley _ Depleted M		(FZ)			Parent Material (TF2) r (Explain in Remarks)			
	uck (A9) ( <b>LRR D</b> )	_	Depleted M Redox Dark		F6)		Oute	(Explain in Remarks)			
	d Below Dark Surfac	e (A11)	Negleted D	•							
	ark Surface (A12)	_	Redox Dep				<sup>3</sup> Indicator	s of hydrophytic vegetation and			
	Mucky Mineral (S1)	_	Vernal Poo		,			d hydrology must be present,			
	Bleyed Matrix (S4)	_	_	` ,				disturbed or problematic.			
Restrictive I	Layer (if present):							·			
Type:											
Depth (inc	ches):						Hydric So	il Present? Yes No √_			
Remarks:	,										
- tomamor											
<b>HYDROLO</b>	GY										
Wetland Hy	drology Indicators:										
Primary India	cators (minimum of o	ne required; che	ck all that appl	y)			Seco	ondary Indicators (2 or more required)			
Surface	Water (A1)	•	Salt Crust	(B11)			Water Marks (B1) (Riverine)				
	ater Table (A2)		Biotic Crus	` ,			Sediment Deposits (B2) (Riverine)				
Saturation	, ,		Aquatic In		s (B13)			Drift Deposits (B3) (Riverine)			
	larks (B1) ( <b>Nonriver</b> i		Hydrogen					Drainage Patterns (B10)			
	nt Deposits (B2) ( <b>No</b>					Living Roo		Dry-Season Water Table (C2)			
	posits (B3) (Nonrive		Presence		_	_		Crayfish Burrows (C8)			
'	Soil Cracks (B6)	*	Recent Iro		•	•		Saturation Visible on Aerial Imagery (C9)			
	on Visible on Aerial I		Thin Muck			i Solis (Co		Shallow Aquitard (D3)			
<del></del>	tained Leaves (B9)	magery (br)						FAC-Neutral Test (D5)			
Field Obser	, ,		Other (Exp	Jiaiii iii Ke	iliaiks)			FAC-Neutral Test (D5)			
		. No	/ Davids Ca	-1>							
Surface Wat		es No									
Water Table Present? Yes No ✓ Depth (inches):								,			
Saturation P	resent? Y	es No	✓ Depth (in	ches):		_ Wetla	and Hydrolo	gy Present? Yes No✓			
(includes cap	corded Data (stream	gauge monitori	ng well aerial	nhotos pre	evious insi	nections)	if available:				
Doconio No	oorada Bata (otroain	gaago, monton	rig won, aonar	priotoo, pri	3 V 10 G G G G	podiono,,	ii availabio.				
Domorko											
Remarks:											

Project/Site: Sloughhouse Solar Energy Project	Sampling Date: 3/3/2021			
Applicant/Owner: D.E. Shaw Renewable Investments			State: CA	Sampling Point: D-03 / D-04
Investigator(s): A. Godinho	S	ection, Township, I	Range: Township 7N / Rai	nge 7E / Section 03
Landform (hillslope, terrace, etc.): Drainage	L	ocal relief (concav	re, convex, none): Concave	Slope (%):0
Subregion (LRR): C	at: 38.46	57164	Long: -121.175458	Datum: WGS84
Soil Map Unit Name: San Joaquin-Galt Complex, 0-3% slope	es		NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this time	e of year	? Yes <u> </u>	o (If no, explain in R	emarks.)
Are Vegetation $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	cantly di	sturbed? Ar	re "Normal Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydrology natura	ally probl	lematic? (If	needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing s	sampling poin	t locations, transects	, important features, etc
Hydrophytic Vegetation Present? Yes No	~	la the Compl	lad Avaa	
Hydric Soil Present? Yes ✓ No		Is the Sampl within a Wet		No ✓
Wetland Hydrology Present? Yes No		Within a 1100		
Remarks:				
<b>VEGETATION</b> – Use scientific names of plants.				
		Dominant Indicato		sheet:
		Species? Status	Number of Dominant Sp That Are OBL, FACW, o	
1			That Are OBL, FACW, C	JI FAC (A)
3			<ul> <li>Total Number of Domina</li> <li>Species Across All Strate</li> </ul>	
4.				, , ,
Operation (Objects on Collection )	0 =	= Total Cover	Percent of Dominant Sp That Are OBL, FACW, of	or FAC:0 (A/B)
Sapling/Shrub Stratum (Plot size:)  1			Prevalence Index worl	ksheet:
2			_	Multiply by:
3				x 1 =
4.				x 2 =
5			FAC species	x 3 =
1,170	0 =	= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size: 1x1m )  1. Bromus diandrus	10	Υ		x 5 =
	10		Column Totals:	(A) (B)
	10	Y	Prevalence Index	= B/A =
4			Hydrophytic Vegetation	
5.			Dominance Test is	>50%
6			Prevalence Index is	
7				ptations <sup>1</sup> (Provide supporting
8				s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	30 =	= Total Cover	r robicinatio riyarop	mytto vogotation (Explain)
1			<sup>1</sup> Indicators of hydric soil	I and wetland hydrology must
2.			be present, unless distu	urbed or problematic.
		= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum60 % Cover of B	siotic Cru	ıst0	Vegetation Present? Yes	s No√_
Remarks:				

SOIL Sampling Point: D-03 / D-0

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			x Feature		. 2	<b>-</b>	<u>.</u>		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-12	10YR 2/2	40	2.5YR 4/6	60	C	М	SiL	contains gravel		
						· -	·			
				·	_	-				
1= 0.0							21	ii Bi B III MAA		
		•	I=Reduced Matrix, CS I LRRs, unless other			ed Sand G		cation: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :		
Histosol		icable to a	Sandy Red		ieu.)			Muck (A9) (LRR C)		
	pipedon (A2)		Stripped Ma	. ,				Muck (A10) ( <b>LRR B</b> )		
	istic (A3)		Loamy Muc		al (F1)			ced Vertic (F18)		
Hydroge	en Sulfide (A4)		Loamy Gley					arent Material (TF2)		
	d Layers (A5) ( <b>LRF</b>	R C)	✓ Depleted M				Other	(Explain in Remarks)		
	uck (A9) (LRR D)	(/////	Redox Dark		` '					
	d Below Dark Surfa ark Surface (A12)	ace (A11)	Depleted Da				3Indicators	of hydrophytic vegetation and		
	Mucky Mineral (S1)		Vernal Pool		(10)			hydrology must be present,		
	Gleyed Matrix (S4)		<u>—</u>	- ( - /				listurbed or problematic.		
Restrictive	Layer (if present):									
Type: No	one									
Depth (in	ches): n/a		<u></u>				Hydric Soil	Present? Yes V No		
Remarks:							•			
Soil pit ta	iken within ea	stern dra	ainage ditch at t	he cul	vert out	let und	er Dillard R	oad		
HYDROLO										
-	drology Indicator									
		one require	ed; check all that appl					ndary Indicators (2 or more required)		
<del></del>	Water (A1)		Salt Crust	,			Water Marks (B1) (Riverine)			
_	ater Table (A2)		Biotic Crus		(D.4.0)		Sediment Deposits (B2) (Riverine)			
✓ Saturati	, ,	\	Aquatic In				Drift Deposits (B3) (Riverine)			
	/larks (B1) ( <b>Nonriv</b> nt Deposits (B2) ( <b>N</b>	,	Hydrogen		, ,	Living Po		Orainage Patterns (B10) Ory-Season Water Table (C2)		
	posits (B3) ( <b>Nonri</b> v		Oxidized F		•	•	· · · —	Crayfish Burrows (C8)		
	Soil Cracks (B6)	(Cilic)	Recent Iro					Saturation Visible on Aerial Imagery (C9)		
	ion Visible on Aeria	ıl Imagerv (I	<del></del>			· · · · · · · · · · · · · · · · · · ·		Shallow Aquitard (D3)		
	Stained Leaves (B9		Other (Exp		` '			AC-Neutral Test (D5)		
Field Obser	<u> </u>	<u> </u>						· · ·		
Surface Wat	ter Present?	Yes	No Depth (in	ches):						
Water Table	Present?	Yes	No Depth (in	ches):						
Saturation P	resent?		No Depth (in				land Hydrolog	y Present? Yes No		
(includes ca	pillary fringe)						9 9-1-			
Describe Re	ecorded Data (strea	ım gauge, m	nonitoring well, aerial p	onotos, p	revious ins	spections)	, if available:			
Damada										
Remarks:										

OHWM DATA SHEET  Project: SSP Date: 10   30   20  Investigator(s): AG + LB Feature Name: ED-  Site Location:  Feature Type: Ephemeral   Intermittent   Perennial   Other  Transect (cross-section) drawing(s):  Solo Slope  By . hor.  Hol. vir.	View Facing:
eature Type: Ephemeral Intermittent Perennial Other ransect (cross-section) drawing(s):	THE REAL PROPERTY.
ransect (cross-section) drawing(s):	THE REAL PROPERTY.
ransect (cross-section) drawing(s):	THE REAL PROPERTY.
5º/oslope  Annual gras  Bro. hor.	THE REAL PROPERTY.
5º/oslope Bro.hor.	aland
Bro.hor.	21410
Hol. vir.	
"moles"	
En M	
11/T 15+ deep	
Table by I will all the	No.
Transect length bed = gravel-lined	
DOHWM width Othum 2 ft	
□ Channel depth	
Photo	
Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°)	
Sediment sorting	and away
☐ Shelving	icu away
☐ Changes in the character of soil ☐ Deposition ☐ Destruction of terrestrial vegetation ☐ Red and banks	
☐ Presence of litter and debris ☐ Water staining	
☐ Wracking ☐ Vegetation matted down, bent, or absent ☐ Change in plant community	Y
	Boulders
Clay/Silt Sand Gravel Cobbles	Dodicers
Above OHWM	10
Below OHWM 90 0	
Tree (%) Shrub (%) Herb (%)	Bare (%)
Above OHWM	0
Relow OHWM 50	50
Stage: TEarly (herbs & seedlings)  Mid (herbs, shrubs, saplings)  Late (herbs, shrubs, m	ature trees)
Upland Species: Emergent Specie	es:
	n.
Bro. hor. Hor. mar. Rum. del Hol. vir. Fes. per.	
401.011.	

**OHWM DATA SHEET** 

Condition/Disturbances (e.g., erosion, grazing, culverts, etc.):						
/drology:						
☐ Flowing water	Avg. depth:	Min. depth:				
☐ Standing water	Temp:	Max. depth:				
☐ Satyrated						
Dry						
hecklist of resources (if available	e);					
Aerial photography	☐ Vegetation maps	GPS unit				
☐ Remotely-sensed images	☐-Soil maps	☐ Stream gage data				
□ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:				
☐ Geologic maps	Existing delineation(s) for site	The State of				
Other forms related to this feature	re: Yes O No ED - 94-4	2 ED-01-75				
☐ Terrace, fringe, or floodplain w	vetland (wetland datasheet) resentative section (OHWM datasheet)					

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· Hor mar

Condition/Disturbances (e.g., erosio	on, grazing, culverts, etc.):	
heavy grazino	+ cattle traff	re
Hydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
図Dry		
Checklist of resources (if available):		
Aerial photography	☐ Vegetation maps	GPS unit
☐ Remotely-sensed images	¹Soil maps	☐ Stream gage data
© Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
Other drawings (plan view), notes:		
	The Part of the last	THE RESERVE TO SECOND
		Common Caller 1 - 4
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Other forms related to this feature:	Yes No	
☐ Terrace, fringe, or floodplain wetlan	d (wetland datasheet)	
☐ Low flow channel or other represen	tauve section (OHWM datasheet)	
0-		

oject: SSEN	6+L	Date: _	10 [30]	F	eature Name: ED	Transect: 4
ite Location:						
ature Type: Ephe			ttent  Perer	nial 🗆 Other		
ansect (cross-section	on) drawin	g(s):				View Facing:
2909	ilipe				Annualgr	assland
I Transect length LOHWM width I Channel depth I Photo		T OH	NM= 5.	W I 35+	delp . cow-hoof heavily g	punches with
□ Natural lin □ Shelving □ Changes in □ Destructio □ Presence □ Wracking □ Vegetation	n the chara in of terres of litter and	acter of trial ve d debri	f soil getation	☐ Lea ☐ Sco ☐ Dep ☐ Bec ☐ Wa	liment sorting f litter disturbed or wa our position I and banks ter staining ange in plant communi	
	Clay/S	Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM Below OHWM	100		0	0	0	0
		Tr	ee (%)	Shrub (%)	Herb (%)	Bare (%)
Above OHWM					100	D
				0	So	So
Below OHWM		ngs)	Mid (herbs, s	shrubs, saplings) [	Late (herbs, shrubs,	
tage: Learly (herl	os & seedli					
Stage: Learly (heri	os & seedli		Bank Specie	es:	Emergent Spec	
Stage: DEarly (hert			Bank Specie	es:	The state of the s	
Upland Species:			Bank Specie	98.	Hor. Ma	

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drology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
D-Bry		
hecklist of resources (if available	е):	
Aerial photography	☐ Vegetation maps	D-GPS unit
☐ Remotely-sensed images	⊟-Soil maps	☐ Stream gage data
Topographic maps	Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
Other drawings (plan view), notes		

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OHWM DATA SHEET Project: SSEP Date: 10 30 20 Investigator(s): AG+LB ED-02-64 Feature Name: Site Location: Feature Type: D Ephemeral D Intermittent D Perennial D Other Transect (cross-section) drawing(s): 1 Annual grassland emostly barren bed, heavily grazed wy cowhoofpunches. ☐ Transect length OHWM width Soil cracks/biotic crust 7 84 ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting □ Natural line impressed on the bank □ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour □ Changes in the character of soil ☐ Deposition Destruction of terrestrial vegetation Bed and banks Presence of litter and debris ■ Water staining Change in plant community Wegetation matted down, bent, or absent Boulders Gravel Cobbles Sand Clay/Sitt **Above OHWM** 00 **Below OHWM** Bare (%) Herb (%) Shrub (%) Tree (%) 00 Above OHWM 50 **Below OHWM** Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Emergent Species: Upland Species:** Bank Species: Hor, mar, Bro . hor. try capmed Hol. vir.

Condition/Disturbances (e.g., ero		
cattle traffic	1 grazing	
Hydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
□ bry		
Checklist of resources (if available	):	
Aerial photography	☐ Vegetation maps	D-GPS unit
☐ Remotely-sensed images	☐ Seit maps	☐ Stream gage data
12 Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	Marie Marie Control of the Control o	
Other forms related to this feature	e: DYES   No   D-O1-	T3 ED-02-65
□ Terrace frieds or floodalai	thand (watland data to	
☐ Terrace, fringe, or floodplain we		
Low now charmer or other repre	esentative section (OHWM datasheet)	
7		
Page U		

OHWM DATA SHEET ED-02-65 Project: 55EP \_\_\_\_ Date: 10 13 0 Feature Name: Investigator(s): Site Location: Intermittent drainage Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): Annualgrossland t bed borren of veg ☐ Transect length OHWM width 6HWM = 10 PA ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐-Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) Sediment sorting □ Natural line impressed on the bank □ Leaf litter disturbed or washed away Shelving ☐ Changes in the character of soil Deposition □ Destruction of terrestrial vegetation Bed and banks ☐ Presence of litter and debris □ Water staining □ Wracking Change in plant community Vegetation matted down, bent, or absent Boulders Gravel Cobbles Sand Clay/Silt **Above OHWM** 100 **Below OHWM** Bare (%) Shrub (%) Herb (%) Tree (%) Above OHWM **Below OHWM** Stage: ☐ £arly (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** Bro. hor. Hol. vir.

Page \_

Condition/Disturbances (e.g., erosion, grazing, culverts, etc.):

Page 2

heavy grazing + cattle traffic. Potentially influenced by leaking sprinkler/seasonal wetland. Hydrology: Avg. depth: Min. depth: ☐ Flowing water Temp: Max. depth: ☐ Standing water □ Saturated Dory Checklist of resources (if available): Aerial photography D-GPS unit □ Vegetation maps ☐ Remotely-sensed images Soil maps ☐ Stream gage data ☐ Topographic maps ☐ Rainfall/precipitation data ☐ Other studies: ☐ Geologic maps ☐ Existing delineation(s) for site Other drawings (plan view), notes: Other forms related to this feature: ☐Yes ☐ No ☐ Terrace, fringe, or floodplain wetland (wetland datasheet) ☐ Low flow channel or other representative section (OHWM datasheet)

HWM DATA SHEET ID-01-71 Project: SSEP Date: 10 /30/20
Investigator(s): A6+LB Feature Name: \_ Investigator(s): Site Location: At Meiss Rd culvert inlet, flows in to basin Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: cow hoofpunches, cobble rip-☐ Transect length OHWM width OHWM= 10 ft ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) Sediment sorting □ Natural line impressed on the bank □ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil Deposition □ Destruction of terrestrial vegetation Bed and banks ☐ Presence of litter and debris □ Water staining ☐ Wracking Change in plant community Vegetation matted down, bent, or absent Sand Gravel Cobbles Boulders Clay/Silt Above OHWM 100 50 **Below OHWM** 50 Tree (%) Shrub (%) Herb (%) Bare (%) Above OHWM **Below OHWM** Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) Bank Species: **Emergent Species: Upland Species:** Bro. hor. Hor mer Fesper Holvir. em cas Fer.per.

Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): Grazing, cattle traffic. Culvert across Neiss Rd., mnoff from Meiss Rd.

Hydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
N Dry		
Checklist of resources (if available		
Aerial photography	☐ Vegetation maps	d GPS unit
☐ Remotely-sensed images	☐ Soil maps	☐ Stream gage data
☑ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
	The latest territories and the latest territorie	
Other drawings (plan view), notes:	The Roll Control of the Control of t	
	100000000000000000000000000000000000000	
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		Mary Report of the Park
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Barbara and the same of the sa		
	1 = 10	
Other forms related to this feature	e: DYES   No NO - DT	- T6/1 Basin

☐ Terrace, fringe, or floodplain wetland (wetland datasheet)

☐ Low flow channel or other representative section (OHWM datasheet)

10-01-82,83,87

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SW-29, 30,31

**OHWM DATA SHEET** Project: SSEP Date: 10 30 120 Investigator(s): A6+LB 10-01-82 Feature Name: \_ Site Location: Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: 1 Annual grassland ☐ Transect length OHWM = ZO ft OHWM width ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting Natural line impressed on the bank Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil □ Deposition □ Destruction of terrestrial vegetation ☐ Bed and banks Presence of litter and debris □ Water staining □ Wracking Change in plant community Vegetation matted down, bent, or absent Cobbles Boulders Sand Gravel Clay/Silt Above OHWM **Below OHWM** Bare (%) Herb (%) Shrub (%) Tree (%) 100 Above OHWM 50 Below OHWM Stage: Tearly (herbs & seedlings) 

Mid (herbs, shrubs, saplings) 

Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** Hor. mar. Hol. vir Fes.per try cas. Bra. hor.

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ndition/Disturbances (e.g., eros	OHWM DATA SHEET	
(attle traffic,	grazines	
ydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		The second second second
D-bry		
hecklist of resources (if available)		Total Control of the
Aerial photography	☐ Vegetation maps	Ď-GPS unit
☐ Remotely-sensed images	□-Soil maps	☐ Stream gage data
Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
Other drawings (plan view), notes:		
		the state of the s
		The state of the s
Other forms related to this feature	e: Tes ONO VD-65-	
Other forms related to this feature		457
☐ Terrace, fringe, or floodplain w	etland (wetland datasheet)	¥5/7
☐ Terrace, fringe, or floodplain w		TST- 10-01-71,83
☐ Terrace, fringe, or floodplain w	etland (wetland datasheet)	
☐ Terrace, fringe, or floodplain we ☐ Low flow channel or other representations.	etland (wetland datasheet)	+5/7 , 10-01-71,83 P-03
☐ Terrace, fringe, or floodplain w	etland (wetland datasheet)	

OHWM DATA SHEET Project: SSEP Date: 10 30 20
Investigator(s): A6+LB Feature Name: \_ 1D-01-83 Site Location: Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: A in segspp composition . minor cow punches · deep soil cracks ☐ Transect length OHWM 15 FT OHWM width ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting Natural line impressed on the bank Leaf litter disturbed or washed away ☐ Shelving ☐ Changes in the character of soil ☐ Deposition Destruction of terrestrial vegetation ☐ Bed and banks □ Presence of litter and debris □ Water staining □ Wracking Change in plant community Vegetation matted down, bent, or absent Boulders Gravel Cobbles Sand Clay/Silt **Above OHWM** 100 **Below OHWM** Bare (%) Herb (%) Shrub (%) Tree (%) Above OHWM 100 **Below OHWM** Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** Polmon. Hol. Vir. Fes. per. Bro. hor. Alo, sac. Ery. cas. Hor, mar.

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	OHWM DATA SHEET	
ondition/Disturbances (e.g., ero		
some grazing		
	THE RESERVE OF THE PERSON OF T	
ydrology:	Avg. depth:	Min. depth:
☐ Flowing water	Temp:	Max. depth:
<ul><li>☐ Standing water</li><li>☐ Saturated</li></ul>		
Dery		
hecklist of resources (if available	e):	
Aerial photography	☐ Vegetation maps	I Street gage data
☐ Remotely-sensed images	Soil maps	☐ Stream gage data ☐ Other studies:
1 Tepographic maps	Rainfall/precipitation data  Existing delineation(s) for site	L'otales
☐ Geologic maps	LI Existing delineation(s) for site	
Other drawings (plan view), notes		
other drawings (plan view), notes		
		TAX DESCRIPTION OF THE PERSON
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LEW DESIGNATION		
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		The state of the s
Merindonsky		
Other forms related to this featu	ure: 🗆 Yes 🗆 No No No - D - D - D - D - D - D - D - D - D -	-IS/6
☐ Terrace, fringe, or floodplain		10-01-71,8
☐ Low flow channel or other rep	presentative section (OHWM datasheet)	
		P-03
Page		
		511-29/31

conv	,			DATA SHEET		Transect: 25
Project SSE	10		11/4/2	0	ature Name:	SINIS - 1
	K+	H6		Fe	ature Name.	
Site Location:	ah	naje	compl	ex east	of 603	3
Feature Type: D Ephen			ttent 🗆 Peren	nial   Other		
Transect (cross-section	) draw	ving(s):		STATE OF THE PARTY	The state of the s	View Facing:
+			10	ftwtd	_	View racing. VV
111	1	1	M	MM		_
Transect length		1	176-17			
DØHWM width			5 8	7 wide		
Channel depth		0001				A STREET
□ Photo same	30	ر اسا	wy Irca			
Break in Slope at OHV	VM-	Sharp (>	60°) □ Mode	rate (30-60°) 🖾 Ge	ntle (<30°)	
□ Natural line □ Shelving □ Changes in □ Destruction □ Presence of □ Wracking □ Vegetation	the ch of ter f litter	naracter of restrial ve and debri	f soil getation	☐ Scou	litter disturbed or was r esition and banks er staining age in plant communi	
	Cla	ay/Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM	Oic	ду/Опс				
Below OHWM	1	00	NA COLOR			
	6 18				Street, Street	
		Tr	ee (%)	Shrub (%)	Herb (%)	Bare (%)
Above OHWM			2	0	100	20
Below OHWM				1 to	Lata (harbs chrube )	mature trees)
Stage: Early (herbs	& se	edlings) [	Mid (herbs, s	shrubs, saplings) L	Emergent Spec	lac.
Upland Species:			Bank Speck	es:		
Brohor			7 20 -		Fes pe	
Bro hor Eng capi Hol vir	ne	d	-	Canaa	Fes pe Horn	ian
Holor			100	same_	7	
			100		HE CERTIFICATION	
The Contract of the Contract o						
					2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		-		THE PERSON NAMED IN	Version 2	updated 11/16/2020

ydrology:					
☐ Flowing water	Avg. depth:	Min. depth:			
☐ Standing water	Temp:	Max. depth:			
☐ Saturated					
□ Đrý					
hecklist of resources (if available	e):				
Aerial photography	☐ Vegetation maps	G-GPS unit			
☐ Remotely-sensed images	☐-Soil maps	☐ Stream gage data			
☐ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:			
☐ Geologic maps	☐ Existing delineation(s) for site				
Other forms related to this featu	re: SPYes D No ED-XX				

Project: 55E	P	OHV	WM D	ATA SHEET			
Investigator(s)	K+A		Y. VIII	- F	eature Name:	SUE	ED-05-
Site Location:		119	100				
Site Location:	ately	upstrea	m	of ba	P-0	3	
Feature Type: 12 Ep	hemeral 🗆 I	ntermittent  Pe	rennia	I □ Other	1.0	O	
Transect (cross-sec							
	-			Del Control	The state of the s		View Facing:
1.	1				(1)		
			)	Man	ngrassla		
☐ Transect length ☐ OHWM width ☐ Channel depth ☐ Photo	bed	banks m	ostr		Few to freg, soi		Contract of the
- 1 1 1 1 1		- 1 × 100		PER PER	PET L	100	-
Break in Slope at Ol	HWM: □ Sha	rp (>60°) 🗆 Mod	derate	(30-60°) □ Ge	entle (<30°)		
Shelving Changes in Destruction Presence Wracking	n the charac n of terrestr of litter and	al vegetation	nt)	☐ Leaf ☐ Scou ☐ Depo ☐ Bed a ☐ Wate			ed away
	Clay/Silt	Sand		Gravel	Cobbles		Boulders
Above OHWM	100		7000		CODDICE		boulders
Below OHWM	100			0	0		0
							7
Above OHWM		Tree (%)		Shrub (%)	Herb (%)		Bare (%)
Below OHWM	-			9	100		75
Stage: Early (herb	s & seedling	s) 🗆 Mid (herbs.	shrubs	s, saplings) 🗆 I		hs mat	
Upland Species:	o de occounting	Bank Speci		, sepinige, <b>2</b> .	Emergent S		are trees,
Bro. hor.							
		$\phi$			Horn Fes.	per	1
Hol. vir.	med						

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Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): potentially influenced by leaking cettle trough, green veg observed out of season Hydrology: ☐ Flowing water Min. depth: Avg. depth: Max. depth: □ Standing water Temp: ☐ Saturated Dry Dry Checklist of resources (if available): GPS unit Aerial photography □ Vegetation maps Soil maps ☐ Stream gage data ☐ Remotely-sensed images ☐ Other studies: ☐ Topographic maps ☐ Rainfall/precipitation data Existing delineation(s) for site ☐ Geologic maps Other drawings (plan view), notes: · remainder of feature upstream = SWS-11, bed and bank disappears Other forms related to this feature: Bres I No upstream transcets ☐ Terrace, fringe, or floodplain wetland (wetland datasheet) ☐ Low flow channel or other representative section (OHWM datasheet)

Page \_\_\_

# **OHWM DATA SHEET** Project: SSEP 10-01-87 \_\_\_\_\_ Date: 11/4 Investigator(s): PK+AG Feature Name: Site Location: Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: Bro. hor. / Hol. vir. cattle hoofpuncher ☐ Transect length 15 ft (avg) OHWM width ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) Sediment sorting □ Natural line impressed on the bank Leaf litter disturbed or washed away ☐ Shelving ☐ Scour □ Changes in the character of soil □ Deposition Destruction of terrestrial vegetation

	Clay/Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM	100010	0	0	0	0
Below OHWM	100010	0	0	0	0

□ Bed and banks

□ Water staining

Change in plant community

THE RESERVE	Tree (%)	Shrub (%)	Herb (%)	Bare (%)
Above OHWM	0	0	75	25
Below OHWM	0	0	75	25

Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees)

Upland Species: Hotocarphavirgata Bromus Hordeaceus	Bank Species:	Emergent Species:  Alypogon monspeliens is  engagium castrense
Bromas Horocas		Lythrumhyssopifolia. Alopecarus sacc.

□ Presence of litter and debris

Vegetation matted down, bent, or absent

**OHWM DATA SHEET** Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): grazing, cattletrails Hydrology: ☐ Flowing water Avg. depth: Min. depth: ☐ Standing water Temp: Max. depth: ☐ Saturated ☑ Dry Checklist of resources (if available): Aerial photography GPS unit ☐ Vegetation maps ☐ Remotely-sensed images Soil maps ☐ Stream gage data □ Topographic maps ☐ Rainfall/precipitation data ☐ Other studies: ☐ Geologic maps ☐ Existing delineation(s) for site Other drawings (plan view), notes:

Other forms related to this feature: No

Ferrace, fringe, or floodplain wetland (wetland datasheet) ☐ Low flow channel or other representative section (OHWM datasheet)

sheet) Consumnes River 1D-01 and associated SWS P-03

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**OHWM DATA SHEET** Project: SSEP Date: 11/4/20 SWS-09-96 Feature Name: Investigator(s): Site Location: Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: E Att Bro. hor, Holovir. ngium custrense, Fes. Per. Hormar, Pol.mon-cattlehoof punches ☐ Transect length M OHWM width D in veg cover/spp comp. ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) Sediment sorting □ Natural line impressed on the bank ☐ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil ☐ Deposition Destruction of terrestrial vegetation □ Bed and banks Presence of litter and debris □ Water staining □ Wracking Change in plant community □ Vegetation matted down, bent, or absent Boulders Clay/Silt Sand Gravel Cobbles Above OHWM 100 **Below OHWM** 100 Shrub (%) Herb (%) Bare (%) Tree (%) 9 100 0 Above OHWM 50 **Below OHWM** 50 Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees)

Upland Species:	Bank Species:	Emergent Species:
Aller To STATE	NO FRANCISCO	
	A PROPERTY.	

**OHWM DATA SHEET** Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): grazing Hydrology: ☐ Flowing water Avg. depth: Min. depth: ☐ Standing water Temp: Max. depth: ☐ Saturated Dry Checklist of resources (if available): Aerial photography ☐ Vegetation maps GPS unit ☐ Remotely-sensed images 4-Soil maps ☐ Stream gage data 1 Topographic maps ☐ Rainfall/precipitation data ☐ Other studies: ☐ Geologic maps Existing delineation(s) for site Other drawings (plan view), notes: Other forms related to this feature: 194es 1 No ☐ Terrace, fringe, or floodplain wetland (wetland datasheet) ☐ Low flow channel or other representative section (OHWM datasheet)

**OHWM DATA SHEET** Project: SSEP Feature Name: SWS-10-90 \_\_\_\_\_Date: 11/4/20 Investigator(s): PK+AG Site Location: Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: N Annual grassland bisticenet 3 ftarg) Obed + bank ☐ Transect length \$ a in slope M OHWM width ☐ Channel depth Din veg spp comp. ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting Natural line impressed on the bank □ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour □ Changes in the character of soil □ Deposition Destruction of terrestrial vegetation □ Bed and banks ☐ Presence of litter and debris □ Water staining ☐ Wracking Change in plant community Yegetation matted down, bent, or absent Clay/Silt Sand Gravel Cobbles **Boulders Above OHWM Below OHWM** Shrub (%) Herb (%) Bare (%) Tree (%) Above OHWM 00 Below OHWM Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** Lythrum hystopifolis Hol. Vir. Fac. per. Bro. hor. Ely. cap-med Hor, mar. ero. cic. Chamomile!

ondition/Disturbances to a	OHWM DATA SHEET	
lightly grazed	osion, grazing, culverts, etc.):	
Hydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water ☐ Saturated	Temp:	Max. depth:
<b>□</b> Ory		
Checklist of resources (if available	1):	
Aerial photography	□ Vegetation maps	☐ GPS unit
☐ Remotely-sensed images	Soil maps	☐ Stream gage data
☐ Jepographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	
her forms related to this feature:	□ Yes □ No	

Page 2

Project: SSE	Date	11/9/20	DATA SHEET		
Investigator(s): _	AS + AC		— Fe	eature Name:_	1-02-10
Site Location:	nitigation	lands - no	them ex	tent of p	roject site
Feature Type: E	phomoral II leter		=		,
ransect (cross-sec	ction) drawing(s):	nittent 🗆 Perenn	ial 🗆 Other		
X	XIXV	12-151 2-3' OHW	TOB WILL depth:	=4-51	View Facing: N
Transect length OHWM width Channel depth Photo		20' to	ansect	-1	
reak in Slope at O	HWM: T Charp (	6000	(00 ccs) = c	were than to the	
☐ Shelving ☐ Changes i ☐ Destructio ☐ Presence ☐ Wracking	ne impressed on the character of terrestrial verse of litter and debrin matted down, b	f soil egetation s	☐ Leaf li ☐ Scour ☐ Depos ☐ Bed a ☐ Water		
	Clay/Silt	Sand	Chartel		
Above OHWM	100	O	Gravel	Cobbles	Boulders
Below OHWM	100	Ö	8	0	8
	Tre	ee (%)	Shrub (%)	Herb (%)	Bare (%)
bove OHWM elow OHWM		0	0	90	10
	- 0 dli 0 -		0	15	95
lpland Species:	s a seeumigs) L	Bank Species:	us, saplings) 🗆 La	ete (herbs, shrubs, n	
- funnel - brazillia peppenve access toad wext banks o	in 3 ed. 3	1		hone	
banks o	r grasland	autivated	field		

Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): burrows a channel, invasive herbs, adverted Hydrology: C Rowing water Avg. depth: fin\_depth: C Standing water ☐ Seturated E Dry Checklist of resources (if evallable): Aerial photography **G** Yegetation maps E GPS unit E Bemotely sensed images El Sgit maps Stream gage data **El** Topographic maps E Rainfall/precipitation data Other studies: Geologic maps Existing delineation(s) for site . a HCP Other drawings (plan view), notes:

- C bears, help, or head of suffering leaders designed

Final .....

**OHWM DATA SHEET** Project: SSEP Date: 11/9/20 Feature Name: US-01-106 Investigator(s): Site Location: ditch at base of level road along Sac. River in the northern portion of project site Feature Type: 

Ephemeral □ Intermittent □ Perennial □ Other - ditch Transect (cross-section) drawing(s): View Facing: level road Transect length transect u OHWM width Channel depth Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting □ Natural line impressed on the bank ☐ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil ☐ Deposition □ Destruction of terrestrial vegetation Bed and banks Presence of litter and debris □ Water staining ☐ /Wracking ☑ Change in plant community + Cover Vegetation matted down, bent, or absent Sand Gravel Cobbles Boulders Clay/Silt Above OHWM 100 Below OHWM 100 Shrub (%) Herb (%) Bare (%) Tree (%) 080 20 Above OHWM Below OHWM Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** coyote melon fennel fennel Bromus diandens Epilobium ciliatum Avenu sp. Bucharis pilularvi

Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): dominated by invasive/non-natives, including star thistle - some grading/soil disturbance present Hydrology: ☐ Flowing water Avg. depth; Min. depth: ☐ Standing water Temp: Max. depth: ☐ Şaturated D Dry Checklist of resources (if available): Aerial photography □Wegetation maps GPS unit Premotely-sensed images Soil maps ☐ Stream gage data Topographic maps Rainfall/precipitation data ☐ Other studies: ☐ Geologic maps Existing delineation(s) for site Other drawings (plan view), notes: Other forms related to this feature: Yes I No ☐ Terrace, fringe, or floodplain wetland (wetland datasheet) ☐ Low flow channel or other representative section (OHWM datasheet)

Feature Name: \_ ED-03 - 118 Project: SSEP Date: 11/9/2020 Investigator(s): AS + AC ephemeral drainage that empties into VP-6 in the northern portion of praced site Site Location: Feature Type: 
☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: NE 20 OHWMY 130 transect ☑ Transect length D OHWM width Channel depth Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting Natural line impressed on the bank □ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil □ Deposition □ Destruction of terrestrial vegetation □ Bed and banks Presence of litter and debris ☐ \_ Water staining Change in plant community Vegetation matted down, bent, or absent Boulders Cobbles Gravel Sand Clay/Silt 100 Above OHWM **Below OHWM** Bare (%) Herb (%) Tree (%) Shrub (%) Above OHWM Below OHWM Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) Bank Species: **Emergent Species: Upland Species:** Hordeum marinum Hordenni marinum Star thistle + Festuca perennis Festuca perentis B. hardeaceas

**OHWM DATA SHEET** 

# **OHWM DATA SHEET** Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): grazing Hydrology: ☐ Flowing water Avg. depth: Min. depth: ☐ Standing water Temp: Max. depth: □ Saturated Dry Dry Checklist of resources (if available): Aerial photography ☐ Vegetation maps GPS unit Remotely-sensed images Soil maps ☐ Stream gage data Topographic maps Rainfall/precipitation data ☐ Other studies: ☐ Geologic maps Existing delineation(s) for site Other drawings (plan view), notes: Other forms related to this feature: Yes No

☐ Terrace, fringe, or floodplain wetland (wetland datasheet)

☐ Low flow channel or other representative section (OHWM datasheet)

roject: SSEP	Date: _		DATA SHEET	ture Name: _ S	NS-12-
Site Location: Feature pate cattle too reature Type:  Epher	ntially cr	reated b	y leaking	10verfious	ng
ransect (cross-section					C 191 100 100 100 100 100 100 100 100 100
1111	brime	short cas. Ery. cas.	bistic cm	annualgo	View Facing: N
☐ Transect length ☐ OHWM width ☐ Channel depth ☐ Photo	VM: □ Sharp (>	60°) □ Modera	ate (30-60°) □ Ger		D 05°C)
□ Natural line □ Shelving □ Changes in □ Destruction □ Presence of	impressed on the character of of terrestrial verifitter and debris	he bank f soil getation s	☐ Sedin☐ Leaf I☐ Scour☐ Depor☐ Bed a☐ Water	nent sorting itter disturbed or wa	
☐ Wracking ☐ Vegetation I	matted down, be	A COLUMN TO SERVICE STATE OF THE PERSON SERVICE STATE OF T			The Name of Street, or other party of the Street, or other party o
Vegetation	Clay/Silt	Sand	Gravel	Cobbles	Boulders
Vegetation i			Gravel	Cobbles	Boulders
₩ Vegetation r			Gravel	Cobbles	Boulders
Vegetation i	Clay/Silt	Sand	0	0	0
Above OHWM Below OHWM	Clay/Silt		Gravel Shrub (%)	Cobbles Herb (%)	Boulders  Bare (%)
Vegetation i	Clay/Silt	Sand	0	0	0
Above OHWM  Above OHWM	Clay/Silt	Sand ee (%)	Shrub (%)	Herb (%)	Bare (%)

ondition/Disturbances (e.g., e	OHWM DATA SHEET rosion, grazing, culverts, etc.):	THE PROPERTY OF THE PARTY OF TH
- Janes Diller	SERVICE SERVIC	
	A STATE OF THE PARTY OF THE PAR	
WAR PRINCIPLE	De la la la la la la la la la la la la la	
/drology:	Aug double	Min. depth:
☐ Flowing water ☐ Standing water	Avg. depth: Temp:	Max. depth:
☐ Saturated	Tomp.	
Dory		
	TO V	
hecklist of resources (if available Aerial photography	Die):	□ GPS unit
☐ Remotely-sensed images	Soil maps	☐ Stream gage data
Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
Other drawings (plan view), not	95:	
Other drawings (plan view), not	es:	
Other drawings (plan view), note	95:	
other drawings (plan view), note	es:	
other drawings (plan view), note	es:	

Page >

Project: SEP Date: 11/10 20 Investigator(s): A6 + AC Feature Name: Site Location:  Site Location:  Feature Type: Ephemeral Intermittent Perennial Other  Transect (cross-section) drawing(s):  View Facing:  Transect length Seriew M width Channel depth Photo  Break in Slope at OHWM: Sharp (>60°) Moderate (30-60°) Gentle (<30°)  Natural line impressed on the bank Shelving Changes in the character of soil Destruction of terrestrial vegetation Presence of litter and debris Water staning Vegetation matted down, bent, or absent  Read Gravel Cobbles Boulde  Above OHWM Relow	2
Site Location:    Feature Type:   Ephemeral   Intermittent   Perennial   Other	2
Transect length	6.5
Transect length   Orlive   O	6.5
Transect length D-OFFWM width Channel depth Photo  Break in Slope at OHWM: Sharp (>60°) Moderate (30-60°) Gentie (<30°)  Natural line impressed on the bank Shelving Changes in the character of soil Destruction of terrestrial vegetation Presence of litter and debris Wracking Vegetation matted down, bent, or absent  Clay/Sitt Sand Gravel Cobbles Boulder  Above OHWM  OFFICE PROPERTY AND ADMINISTRATION AND ADMINI	6.5
Channel depth	
□ Natural line impressed on the bank □ Shelving □ Changes in the character of soil □ Destruction of terrestrial vegetation □ Presence of litter and debris □ Wracking □ Vegetation matted down, bent, or absent □ Clay/Silt □ Clay/Silt □ Sediment sorting □ Leaf litter disturbed or washed away □ Deposition □ Deposition □ Water staining □ Change in plant community □ Change in plant community □ Cobbles □ Boulder □ Cobbles □ Boulder □ Cobbles □ Cobb	
Above OHWM 100 0 0 0	
Above OHWM 100 O	s
Tree (%) Shrub (%) Herb (%) Bare (%)	
Above OHWM 100 0	
Below OHWM 10 90	3 1 10
Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees)	77-10-1
Upland Species: Emergent Species: Phylip and Programmer Physics   Phylip and Programmer Physics   Physics	
Phyla nodifiora Hordeum mani Bilmon	

on, grazing, culverts, etc.):		
	17+	
parties and the last	The said of the said of the said of	- Co-0
	,	
The same of the sa		
Avg. depth:	Min denth:	
	A STATE OF THE STA	
15	Max. depth.	
☐ Vegetation maps	Deps unit	
☐ Seil maps	☐ Stream gage data	
☐ Rainfall/precipitation data	☐ Other studies:	
Existing delineation(s) for site	The state of the s	
	☐ Seil maps	Temp:  Max. depth:  Vegetation maps  Soil maps  Rainfall/precipitation data  Max. depth:

Project: SSO Investigator(s): A	0	OHV		ATA SHEET	Feature Name:	Sw 5-17
Site Location:			100		catale Hame.	The state of the s
Feature Type: DEp	hemeral 🗆 Interr	mittent  Per	ennia	I Other	-	
Transect (cross-sect	tion) drawing(s):	The state of	-			
The street of the street of			-	-	-	View Facing:
☐ Transect length ☐ OHWM width ☐ Channel depth ☐ Photo Ø Pho	to simila	Cot a	~ ++	osa marin	· biotic cr	y grassland
Break in Slope at Ol	HWM: □ Sharp (s	>60°) □ Mod	lerate	(30.60°) □ C	ntle (<20°)	
☐ Natural lir ☐ Shelving ☐ Changes i ☐ Destructio ☐ Presence ☐ Wracking	ne impressed on the character of on of terrestrial veo of litter and debr	the bank of soil egetation is	1	☐ Sedii ☐ Leaf ☐ Scou ☐ Depo ☐ Bed i ☐ Wate	ment sorting litter disturbed or w	
	Ot- COIN	01				
Above OHWM	Clay/Silt	Sand	100	Gravel	Cobbles	Boulders
Below OHWM	199	9	-	0	0	0
		100000				
Above OLDMA	Tr	ee (%)		Shrub (%)	Herb (%)	Bare (%)
Above OHWM Below OHWM		)	-	9	100	0
Stage: Early (herb	s & specificate)	Mid (horbo	- hereb	caplings) C	SO sto (bosho shruho	1 50
Upland Species:	s & seedings) L	Bank Specie	_	s, sapinigs) Li t	Emergent Spe	THE RESERVE THE PROPERTY OF THE PARTY OF THE

	OHWM DATA SHEET	
condition/Disturbances (e.g., eros	sion, grazing, culverts, etc.):	
ydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
¹ fory		
checklist of resources (if available		
Aerial photography	☐ Vegetation maps	☐ GPS unit
☐ Remotely-sensed images	☐ Soil maps	☐ Stream gage data
Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
THE BUILD	A TOTAL STREET	
The state of the s		
THE SECOND STREET		
THE REAL PROPERTY.		A STATE OF THE PARTY OF THE PAR
The second second		
MI SHARES BY		
THE PARTY OF THE PARTY OF THE	Maria Caraca Car	
		6 . 5 . 1 . 2
Other forms related to this feature	e: BYes   No EDOS	SWS-12-176
☐ Terrace, fringe, or floodplain w	etland (wetland datasheet)	
☐ Terrace, fringe, or floodplain w ☐ Low flow channel or other repr	etland (wetland datasheet) esentative section (OHWM datasheet)	
☐ Terrace, fringe, or floodplain well Low flow channel or other representations.	etland (wetland datasheet) esentative section (OHWM datasheet)	

8

roject: SSEP	9	Date:	11/11/20	20			115	-06	- 1
nvestigator(s):	3, AS		Marie Par	-	Fea	ture Name:	02	- 06	
Site Location:  Top of hi	u i	n ca	ttle pa	ddo	ck.				
eature Type: Ephe	emeral	□ Interm	ittent 🗆 Pere	ennial D	Other To	pograph	ic f	eature	
ransect (cross-section	on) dra	wing(s):	THE PERSON	1915	200 33	The state of	-		
								View Facin	g: NN
							-		
THE PERSON NAMED IN	1	31000		1	I6"				
					T	K yes			
				V	Sand Sand	1			
					3'				
☐ Transect length ☐ OHWM width					17636				
Channel depth									
☐ Photo	1	110000	454 P.	150	E 23 12	3 7 7 7	1660	19 11 25	49.1
☐ Changes in ☐ Destruction ☐ Presence o ☐ Wracking ☐ Vegetation	n of ter of litter	rrestrial ve and debri	egetation	it	☐ Water	ition nd banks staining e in plant co	mmunity		
-	Cla	ay/Silt	Sand		Gravel	Cob	bles	Bould	iers
Above OHWM	-	0			1985				
Below OHWM	N.	00					3400		
A CONTRACTOR OF THE PARTY OF TH	1 3	Tr	ree (%)	5	Shrub (%)	Herb (%	)	Bare (	%)
Above OHWM								100	)
Below OHWM	10							100	
age:   Early (herbs	s & see	edlings) 🗆			, saplings) 🗆 La				)
Upland Species:	711		Bank Specie	ies:		Emerger	t Species	s:	
14	A		NA		N/	*			
			OF THE						

Condition/Disturbances (e.g., erosio	on, grazing, culverts, etc.):	
Giraring, bare g	round.	
Hydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
□ Dry		
Checklist of resources (if available):		
Aerial photography	☑ Vegetation maps	☑ GPS unit
☐ Remotely-sensed images	☐ Soil maps	☐ Stream gage data
☐ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	
Other drawings (plan view), notes:		
remnant swall in we.	due to grazing. Che From old water	trough no longer
	No Paris	
Other forms related to this feature:	I Yes Ja No	
☐ Terrace, fringe, or floodplain wetla ☐ Low flow channel or other represe	nd (wetland datasheet) ntative section (OHWM datasheet)	

**OHWM DATA SHEET** Project: SSEP \_ Date: 11/11/2020 Feature Name: ED-04-137 Investigator(s): LB Site Location: Grazed cattle puddock Feature Type: 
☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: E small secondar Transect length M OHWM width Channel depth Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting □ Natural line impressed on the bank □ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil ☐ Deposition □ Destruction of terrestrial vegetation Bed and banks ☐ Presence of litter and debris □ Water staining Change in plant community □ Vegetation matted down, bent, or absent Boulders Gravel Cobbles Sand Clay/Silt 90 10 Above OHWM **Below OHWM** 98 2 Shrub (%) Herb (%) Bare (%) Tree (%) 100 0 Above OHWM 0 **Below OHWM** 10 Stage: ☑ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** cyperus eragrostis Ranunculus scheratus Cynodon dactylon Erodium bostrys Malva parviflora

19/0/10/61 by SA HAR THE THEFTH Min devile AND PART OF HOLES Mas sagan from the fol 13/12 Agent and the second line also report El Yespetalien maes माम क्षात्र माम by desiring the state of the state of easin link [4] El Stream gage data & repayments made P Rainfall precipitation date FI Other nucleas SAME WAS UND A Existing delineation(a) for are EXPORT FROM THE PRINT FROM THE PRINT white teating from cattle trough at loand SWS. and promote make to lank 1.

Other forms related to this feature: [] Yes [] No

(3 terrico filingo, or filinospiain wetland (wetland datasheet)

Discover their charmed or other representative section (OHWM datasheet)

FRANK A.

**OHWM DATA SHEET** Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): Cattle trampling and grazing Hydrology: Min. depth: ☐ Flowing water Avg. depth: Max. depth: □ Standing water Temp: ☐ Saturated ☑ Dry Checklist of resources (if available): ☑ GPS unit ☑ Aerial photography □ Vegetation maps ☐ Stream gage data ☐ Remotely-sensed images Soil maps ☑ Topographic maps ☐ Other studies: ☐ Rainfall/precipitation data ☐ Geologic maps ☐ Existing delineation(s) for site Other drawings (plan view), notes: water leaking from cattle trough at head of sws. sws channels water to Pont-1. Other forms related to this feature: ☐ Yes 🔁 No

☐ Terrace, fringe, or floodplain wetland (wetland datasheet)
☐ Low flow channel or other representative section (OHWM datasheet)

Project: SSEP	Date	: 1/11/20:	20_		,c n3-1
Investigator(s):	B. KS		F	eature Name:	NS-03-1
Site Location: Hill above	(east) of	tilled	Ag field a	end Cosum	nes Kiver
		mittent  Pere	nnial 🖾 Other 3 🗸	rale in uplan	d
Transect (cross-sec	tion) drawing(s):			-	107
					View Facing: NW
	pland spp	W K	WI GIRT		
		-	3'		
☑ Transect length ☑ OHWM width ☑ Channel depth ☑ Photo					
□ Natural lin □ Shelving □ Changes i □ Destructio □ Presence □ Wracking	ne impressed on in the character of on of terrestrial vo of litter and debr	the bank of soil egetation ris	☐ Leaf ☐ Scou ☐ Depo ☐ Bed a	ment sorting litter disturbed or wa	
	Clay/Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM	100				
Below OHWM	100				
	1 7	100	Charib (94)	11-4-000	
Above OHWM	-	ree (%)	Shrub (%)	Herb (%)	Bare (%)
Below OHWM				100	5
tage: A Early (herb	s & seedlings)	Mid (herbs, sl	nrubs, saplings) 🗆 I	ate (herbs, shrubs, i	nature trees)
Upland Species:		Bank Species		Emergent Speci	The state of the s
Hormun		Hormur		Fesper	
Censol		Horman		Hormar	
Censol lacser Ely cap-med		Horman Festuca	per		

	OHWM DATA SHEET	
Condition/Disturbances (e.g., erosio	on, grazing, culverts, etc.):	
lydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
Dry Dry		
Checklist of resources (if available):		
Aerial photography	☐ Vegetation maps	☑ GPS unit
☐ Remotely-sensed images	☐ Soil maps	☐ Stream gage data
☐ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	
Other drawings (plan view), notes:		
yory and to all	1 1 1	
Juana Swal	e Hopographic dep	ression between
very gradual swall two hills. Flows west, no more of	Fan out @ bas	e of hill to
west no wood si		C -1 1000 15
, so were si	once or wetland	A STANDARD OF THE STANDARD OF
Other forms related to this feature: D	l Yes to No	
Terrace, fringe, or floodplain wetla	nd (wetland datasheet)	
Low flow channel or other represen	ntative section (OHWM datasheet)	

**OHWM DATA SHEET** Feature Name: 5W5-13-138 Project: SSEP \_ Date: 11/11/2020 LB+ AS Investigator(s): Site Location: Feature is Just west of Meiss Road in the middle-eastern portion of project site, Transect (cross-section) drawing(s): View Facing: 2ft 6HWM/lateral extent Transect length OHWM width Channel depth \$ 0.51 Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) Sediment sorting □ Natural line impressed on the bank Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil □ Deposition □ Destruction of terrestrial vegetation □ Bed and banks □ Presence of litter and debris □ \_Water staining M Change in plant community toover □ Vegetation matted down, bent, or absent Sand Gravel Cobbles Clay/Silt Boulders Above OHWM 100 **Below OHWM** 100 Herb (%) Tree (%) Shrub (%) Bare (%) Above OHWM **Below OHWM** 

		Emergent Species:
Halocarpha virgata		Hordeum marinum
Halocarpha virgata Bromus hordeaceas	Same	festuca perennis
grassland	1	

Condition/Disturbances (e.g., erosion, grazing, culverts, etc.):			
cattle use	of dramage		
	et of the transfer		
Hydrology:			
☐ Flowing water	Avg. depth:	Min. depth:	
☐ Standing water	Temp:	Max. depth:	
Saturated			
□ Dry			
Checklist of resources (if available):			
Aerial photography	☐ Vegetation maps	GPS unit	
Remotely-sensed images	Soil maps	☐ Stream gage data	
D Topographic maps	Rainfall/precipitation data	☐ Other studies:	
☑ Geologic maps	Existing delineation(s) for site		
A ROLL OF THE REAL PROPERTY.			
Other drawings (plan view), notes:			
HOUSE EN LINE OF THE			
		St. Revision St. Co.	
Mary Control of the Control			
THE WORLD STORY			
		ATTENDED TO SECOND	
		STATE OF THE PARTY	
		THE RESERVE OF STREET	
		THE PERSON NAMED IN	
DESCRIPTION OF THE RESERVE			
		Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda Sanda S	
		THE RESERVE AND ADDRESS OF THE PARTY OF THE	
Other forms related to this feet,	T Vas M No		
Other forms related to this feature: I	i tes el No		
El Torrogo friedo enfloradados entre	and (wetland datasheet)		
☐ Terrace, fringe, or floodplain wetla			
☐ Low flow channel or other represe	milative section (ortwin datasileet)		

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Project: SSEP		Date:	OHW: 1/1/2		ATA SHEET		01	JS-14-13
Investigator(s):	LB	+ AS	-		_ Fe	eature Name:	20	03 11 13
Site Location:					4		1 .	
1					, but to	the nor	th.	
Feature Type: ☐ Ep			nittent 🗆 Pere	ennia	I □ Other			
Transect (cross-sec	tion) dr	rawing(s):						1 - 1
	$\Delta$	1		Jo.	ateral extent	FX. 1-		View Facing: <u>WW</u>
☐ Transect length☐ OHWM width☐ Channel depth☐ Photo☐ Preak in Slope at Of					usect n		1	
□ Natural lin □ Shelving □ Changes ii □ Destructio □ Presence □ Wracking	n the con of te	essed on the haracter of the h	the bank of soil egetation		☐ Sedir☐ Leaf☐ Scou☐ Depo☐ Bed a☐ Wate	ment sorting litter disturbed		
	CI	ay/Silt	Sand	-	Gravel	Cobi	oles	Boulders
Above OHWM	100	00	0		0	0		0
Below OHWM		00	0		0	0		0
	-	Tro	ee (%)		Shrub (%)	Herb (%)	1	Bare (%)
Above OHWM		7	)		0	45		55
Below OHWM		6	5		Ď	30		70
Stage:   Early (herb	s & see	edlings) 🗆	Mid (herbs, s	hrub	s, saplings) 🗆 l		nrubs, m	
Upland Species:			Bank Species		as ED-	Emergen	t Specie	98:

ydrology: □ Flowing water □ Standing water	Aug double	
☐ Flowing water	Aug donth:	
	Aug double	
☐ Standing water	Avg. depth:	Min. depth:
G	Temp:	Max. depth:
☐ Saturated		
☑ Dry	(	
hecklist of resources (if available)	): /	
Aerial photography	Vegetation maps	CLEPS unit
Remotely-sensed images	Soil maps	☐ Stream gage data
Topographic maps	Rainfall/precipitation data	☐ Other studies:
Geologic maps	Existing delineation(s) for site	77.74

Project: SSEP		Data	11/11/2		ATA SHEET			
Investigator(s):			-111-			eatu	re Name: 5V	US-15-17
The second secon	SHARIFF AND SHARIFF		S SOLIT	h a				
eastern portion of project site								
Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other								
Transect (cross-sect				O, III III II	- Canon			
MAR ER E	140							View Facing:
Barre Brigh								
	()			,	v 2 F f		othwm/	ateral exten
			W	1			+11	L
Transect length DOHWM width Channel depth Photo	0.5	, \-	^	75	i Ft			
Break in Slope at Oh	IWM- I	T Sharn (	•60°) □ Mod	erate	(30 60°) 19 60	ntlo	(<20°)	
□ Natural lin □ Shelving □ Changes ii □ Destructio □ Presence □ Wracking	e impr n the c n of te of litter	essed on the haracter of the string version	the bank f soil egetation	The state of	☐ Sedii ☐ Leaf ☐ Scou ☐ Depo ☐ Bed ☐ Wate	ment litter ir osition and to er sta	sorting disturbed or was n panks	
	CI	ay/Silt	Sand		Gravel		Cobbles	Boulders
Above OHWM	16	0	0		0		0	
Below OHWM	-		1		1000			
		Tre	ee (%)		Shrub (%)		Herb (%)	Bare (%)
Above OHWM Below OHWM		- (	<b>—</b>		0		45	55
Stage:   Early (herb	c 8. co.	adlinge) []	Mid (herbe s	hruh	e canlinge) $\square$	l ata	(herbs shrubs n	70
Upland Species:	3 4 30	sumga) L	Bank Specie	es:	s ED-		Emergent Specie	96:
		A CONTRACTOR						THE REAL PROPERTY.

Condition/Disturbances (e.g., erosion, grazing, culverts, etc.): cattle use of drainage Hydrology: ☐ Flowing water Avg. depth: Min. depth: ☐ Standing water Temp: Max. depth: ☐ Saturated DAY Checklist of resources (if available): Aerial photography □ Vegetation maps GPS unit ☐ Remotely-sensed images ☐ Soil maps ☐ Stream gage data \*\*Dopographic maps ☐ Rainfall/precipitation data ☐ Other studies: ☐ Geologic maps Existing delineation(s) for site Other drawings (plan view), notes: Other forms related to this feature: 

Yes The ☐ Terrace, fringe, or floodplain wetland (wetland datasheet) ☐ Low flow channel or other representative section (OHWM datasheet)

Page \_\_\_

Version 2; updated 11/16/2020

**OHWM DATA SHEET** Project: SEP Date: 11/12/20
Investigator(s): Anna 6. + Allie6. Feature Name 5 - 5 - 5 - 5 - 151 Site Location: within swale complex wost/upland of basin. Drains into SW-37 Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: ☐ Transect length DOHWM width 2-55+ ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting □ Natural line impressed on the bank □ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil □ Deposition □ Destruction of terrestrial vegetation □ Bed and banks □ Presence of litter and debris □ Water staining □ Wracking Change in plant community Vegetation matted down, bent, or absent Gravel Cobbles Boulders Sand Clay/Silt Above OHWM Below OHWM Bare (%) Herb (%) Shrub (%) Tree (%) 100 Above OHWM Below OHWM edlings) 

Mid (herbs, shrubs, saplings) 

Late (herbs, shrubs, mature trees)

Upland Species:	Bank Species:	Emergent Species:
Bro. hor.		Eleocharis macresto elige
Holorurpha Sp.	- 1	try.cas.
Matricaria sp		Phy mod
Hypocherissp.		tes.per.
k late season upland		
veg growingwithin		

Page 1

swale

	OHWM DATA SHEET	Contract to the second
Condition/Disturbances (e.g., ero	osion, grazing, culverts, etc.):	
lydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
<b>□</b> ory		
Chapter of recourage (if available		
Checklist of resources (if available Aerial photography	□ Vegetation maps	☐ GPS unit
☐ Remotely-sensed images	Soil maps	☐ Stream gage data
Topographic maps	☐ Rainfall/precipitation data	Other studies:
☐ Geologic maps	Existing delineation(s) for site	301010000000000000000000000000000000000
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throughout i	v1 > bare ground	and row hoof punc
throughout i	v1 > bare ground	and row hoof punc
throughout	v1 > bare ground	and row hoof punc
throughout	v1 > bare ground	and row hoof punc
throughout	v1 > bare ground	and row hoof punc
throughout	v1 > bare ground	and row hoof punc
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throughout	v1 > bare ground	and row hoof punc
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Throughout	v1 > bare ground	and row hoof punc
throughout	v1 > bare ground	and row hoof punc
Throughout	v1 > bare ground	and row hoof punc
throughout	v1 > bare ground	and row hoof punc
		and row hoof punc
Other forms related to this feature		and row hoof punc
	e: 🖫 Yes 🗆 No	and row hoof punc

**OHWM DATA SHEET** Date: 11/12/20 Project: Feature Name: 5WS-04-152 Investigator(s): Site Location: Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: Din slope, ☐ Transect length Din veg cover/sppcomp OHWM width ☐ Channel depth **D**-Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting □ Natural line impressed on the bank □ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil □ Deposition □ Destruction of terrestrial vegetation Bed and banks ☐ Presence of litter and debris □ Water staining □ Wracking Change in plant community Vegetation matted down, bent, or absent Clay/Silt Sand Gravel Cobbles **Boulders** Above OHWM **Below OHWM** Shrub (%) Herb (%) Bare (%) Tree (%) Above OHWM 100 40 **Below OHWM** 60 Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** Bro. hor. Fes.per Holocappha. This hostemma lanceolotum Rum. den.

Page \_\_\_

Condition/Disturbances (e.g., erosion, grazing, culverts, etc.):			
	10 × 10 10 10 10 10		
ydrology:			
☐ Flowing water	Avg. depth:	Min. depth:	
☐ Standing water	Temp:	Max. depth:	
☐ Saturated			
D-Dry			
Checklist of resources (if available	e):		
Aerial photography	☐ Vegetation maps	Q QPS unit	
☐ Remotely-sensed images	11-Soil maps	☐ Stream gage data	
☐ Topographic maps	☐ Rajnfall/precipitation data	☐ Other studies:	
☐ Geologic maps	N-Existing delineation(s) for site	TO MAN DE LA PROPERTIE DE LA P	
Other drawings (plan view), notes			
	The state of the s		
100			
Other forms related to this featu	re: Dives II No Ti		
☐ Terrace, fringe, or floodplain	wetland (wetland datasheet)		
Tow flow channel or other rep	presentative section (OHWM datasheet)		
L LOW HOLD SHE			
2			
Page			

**OHWM DATA SHEET** Investigator(s): AG+AS

Site Lo Feature Name SW 5-04-154 Site Location: upslope from SW-37 Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: \_\_ & A inslope, only sin veg spp comp ☐ Transect length OHWM width ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) Sediment sorting □ Natural line impressed on the bank Leaf litter disturbed or washed away □ Shelving Scour □ Changes in the character of soil Deposition □ Destruction of terrestrial vegetation Bed and banks □ Presence of litter and debris □ Water staining □ Wracking Change in plant community Vegetation matted down, bent, or absent Clay/Silt Sand Gravel Cobbles Boulders Above OHWM **Below OHWM** Tree (%) Shrub (%) Herb (%) Bare (%) Above OHWM 100 **Below OHWM** Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** ery. ras. Bro. hor. Fly cap-med Hol Rum den.

	UNIWI DATA SHEET	
Condition/Disturbances (e.g., erosi	on, grazing, culverts, etc.):	
Hydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
Ď-Đrý		
Chaptelist of resources (if available)		
Checklist of resources (if available):  Aerial photography	☐ Vegetation maps	☐ GPS unit
☐ Remotely-sensed images	Soil maps	☐ Stream gage data
□-Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	
Other drawings (plan view), notes:		
= 1 00 1-50556	select be close in	anae C
	lange in slope in	areas,
gradient is 11	w,	The second secon
mapped Other	im by Eryicas, t	Hor, mar.
opoint 155 to	aken within a	rea of
sheet how, f	eature loses	discernible boundarie
7 20 7 1 2 30		
Other forms related to this feature:	Yes No TITZ S	WS-04-151,152
☐ Terrace, fringe, or floodplain wet		
Low flow channel or other repres	sentative section (OHWM datasheet)	

**OHWM DATA SHEET** Project: SSED Feature Name: 5W S - 04-143 Investigator(s): SWS 05 is located in the mid-west portion of Site Location: Feature Type: ☐ Ephemeral ☑ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): View Facing: Transect length D OHWM width Channel depth Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Natural line impressed on the bank Sediment sorting ☐ Shelving □ Leaf litter disturbed or washed away ☐ Changes in the character of soil Scour Destruction of terrestrial vegetation Deposition M Presence of litter and debris Bed and banks □ Wracking Water staining Vegetation matted down, bent, or absent Change in plant community Clay/Silt Sand Gravel Cobbles Boulders Above OHWM 00 Below OHWM 60 Tree (%) Shrub (%) Herb (%) Bare (%) Above OHWM 95 **Below OHWM** Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees) **Upland Species:** Bank Species: **Emergent Species:** annual grassland species -- BROHOR - ELY-CAP-MED - HOLVID

	use	
ydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated ☐ Dry		
hecklist of resources (if available	a):	
Aerial photography	☐ Vegetation maps	III GPS unit
Remotely-sensed images	☐ Seil maps	☐ Stream gage data
☐ Topographic maps	Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
	ten within low seasonal wetlar	-point in
transect ta		-point in
		-point in

**OHWM DATA SHEET** Project: \_ Date: Feature Name: US-02-156 Investigator(s): Site Location: Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): Pipe collecting runoff from mostly upland veg w/increase in Horman ☐ Transect length OHWM width ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Sediment sorting □ Natural line impressed on the bank □ Leaf litter disturbed or washed away ☐ Shelving ☐ Scour ☐ Changes in the character of soil □ Deposition Destruction of terrestrial vegetation □ Bed and banks □ Presence of litter and debris □ Water staining □ Wracking Ghange in plant community Vegetation matted down, bent, or absent Gravel Cobbles **Boulders** Clay/Silt Sand Above OHWM Below OHWM Bare (%) Herb (%) Shrub (%) Tree (%) Above OHWM Below OHWM Stage: Larly (herbs & seedlings) Aid (herbs, shrubs, saplings) Late (herbs, shrubs, mature trees) **Emergent Species:** Bank Species: **Upland Species:** Hor mar. All same as prev.

A + USITY -

condition/Disturbances (e.g., er	osion, grazing, culverts, etc.):	
muettto	msolar site?	
	A STATE OF THE STA	
lydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
Ď-bry		
Checklist of resources (if available	e):	
Aerial photography	□ Vegetation maps	Dep's unit
☐ Remotely-sensed images	d-8oil maps	☐ Stream gage data
Topographic maps	Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	
ther drawings (plan view), notes		
and drawings (plan view), notes		
	The second second	
Carried State of the Land	~ 5	
ther forms related to this feature	ENTES ONO ENS-OJ	SW5-04
Terrace, fringe, or floodplain we	etland (wetland datasheet)	
	esentative section (OHWM datasheet)	
0		

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**OHWM DATA SHEET** Project: SSEP Feature Name: SWS-05-160 \_\_ Date: \_11/12/2020 AS +AG Investigator(s): Site Location: sws in mid-west extent of project site. Drains into basin on private land north of site

Feature Type: | Ephemeral | Intermittent | Perennial of Other Transect (cross-section) drawing(s): View Facing: Transect length OHWM width 2-51 ottw/ break inslope Channel depth Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) □ Natural line impressed on the bank □ Sediment sorting Leaf litter disturbed or washed away ☐ Shelving Scour Changes in the character of soil Deposition □ Destruction of terrestrial vegetation Bed and banks Presence of litter and debris □ / Water staining Wracking Change in plant community + Cover Vegetation matted down, bent, or absent Clay/Silt Sand Gravel Cobbles Boulders Above OHWM **Below OHWM** Tree (%) Shrub (%) Herb (%) Bare (%) Above OHWM 0 Below OHWM 30 Stage: Farly (herbs & seedlings) I Mid (herbs, shrubs, saplings) Late (herbs, shrubs, mature trees) **Upland Species:** Bank Species: **Emergent Species:** Bro hor Some Matricana IP K

Condition/Disturbances (e.g., erosi	on, grazing, culverts, etc.):	
dominated by	non-native plants.	
TO THE PARTY OF TH	The second second second	
lydrology:		
☐ Flowing water	Avg. depth:	Min depth:
☐ Standing water	Temp:	Max. depth:
Saturated		
☑ Dry		
thecklist of resources (if available):		
☑ Aerial photography	☑ Vegetation maps	GPS unit
☑ Remotely-sensed images	☑ Soil maps	☐ Stream gage data
☑ Topographic maps	Rainfall/precipitation data	☐ Other studies:
☑ Geologic maps	Existing delineation(s) for site	
Other forms related to this feature  □ Jerrace, fringe, or floodplain we	tland (wetland datasheet)	
Low flow channel or other repre	sentative section (OHWM datasheet)	

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					ASHEET				4
oject:		_Date: _	1/12/20	,			SW	5-05-1	61
vestigator(s):	1000			-	Feat	ure Name:			
Site Location:	13.00								
drainagei									
eature Type:   Ephe	meral [	Intermit	tent  Peren	nial [	Other				
ransect (cross-sectio	n) draw	ring(s):	1					View Facing:	1
Transect length	1	+	10W flo	×	channel a	hoof p		ding 3 ~ 25%	Co
□ Photo									
□ Natural line □ Shelving □ Changes in □ Destruction □ Presence of □ Wracking □ Vegetation	the ch n of terr of litter	aracter of restrial ve and debris	soil getation		☐ Leaf li ☐ Scour ☐ Depos ☐ Bed a ☐ Water				
	Cla	y/Silt	Sand		Gravel	Co	bbles	Boulders	
Above OHWM	10	00		,	0	-	)	0	
Below OHWM	1,								
TO THE PARTY OF		7	ee (%)		Shrub (%)	Herb (	%)	Bare (%)	7
Above OHWM		- !!	20 (10)			25		75	
Below OHWM		4			0	25		75	
Stage: ☐ Early (herb	s & see	edlings)	Mid (herbs,	shrub	s, saplings) 🗆 I	ate (herbs,	shrubs, n	mature trees)	
Upland Species:			Bank Speci		THE RESERVE	Emerg	ent Speci	es:	
tarweeds						Ho	rma	r	
						STORES		The state of the s	

# OHWM DATA SHEET Condition/Disturbances (e.g., erosion, grazing, culverts, etc.):

lydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
t⊒-tory		
Checklist of resources (if availa	ble):	
☐ Aerial photography	☐ Vegetation maps	GPS unit
☐ Remotely-sensed images	☑ Soil maps	☐ Stream gage data
□ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	A COUNTY OF THE PARTY OF THE PA

Project SSEP	Dotor	OHWM 0	DATA SHEET		Transect:	236
Investigator(s):	G+AS		Fea	ture Name: US	-07	
Site Location:	nted win	nin upp	er reache	s of drai	nage	
complexe	ast of	large	basince	ond-05)		
Feature Type: D Ephen	neral 🗆 Intermit	tent 🗆 Perenn	ial   Other			
Transect (cross-section			E		View Facing:	
		In it	et woulfA	isses (		
☐ Transect length ☐ Channel depth ☐ Photo		3	<del></del>			
☐ Shelving ☐ Changes in ☐ Destruction ☐ Presence of ☐ Wracking	impressed on the	ne bank soil getation	☐ Sedim ☐ Leaf I ☐ Scour ☐ Depos ☐ Bed a ☐ Water	nent sorting itter disturbed or was sition and banks r staining ge in plant communit	y and/or cover	
	Clay/Silt	Sand	Gravel	Cobbles	Boulders	
Above OHWM Below OHWM	100	9	-	10		
	Tr	ee (%)	Shrub (%)	Herb (%)	Bare (%)	
Above OHWM	.,	7		100	~	1
Below OHWM				100	)	
Stage: ☐ Early (herbs	& seedlings)	Mid (herbs, sh	nrubs, saplings)	Late (herbs, shrubs, n	nature trees)	,
Upland Species:	1	Bank Species		Emergent Specie	es:	1
Bro hor				Horman Fes per		
VE ME				10. 10		
		Male I				ALL

Condition/Disturbances (e.g., ero	sion, grazing, culverts, etc.):	
Hydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
<b>□</b> Dry		
Checklist of resources (if available	):	
☐ Aerial photography	☐ Vegetation maps	□-GPS unit
☐ Remotely-sensed images	□ Soil maps	☐ Stream gage data
Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
Other drawings (plan view), notes:		
	The state of the s	
Other forms related to this feature	T Vac to No	
other forms related to this reature	. 🗖 /65 🖾 110	
☐ Terrace, fringe, or floodplain we		
☐ Low flow channel or other repre	sentative section (OHWM datasheet)	

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SWS-06-220

Project: SSEP Date: 1113120 Transect: 2								
Investigator(s):			74151		Fe	eature	e Name: SW	S1113-01
Site Location:	SV	V po	mon	o F				
Feature Type: ☑ Ep Transect (cross-sec			nittent 🗆 Pere	ennial	Other			
111		20	ft tr S-1'de		ect 11	1	1	View Facing:
Transect length OHWM width Channel depth Prioto			101	OH	wm			
□ Natural lin □ Shelving □ Changes i □ Destructio □ Presence □ Wracking □ Vegetation	n the ch on of ter of litter	naracter o restrial ve and debri	f soil egetation	t	☐ Leaf ☐ Scour	litter or r sition and b er stai	anks	
	Cla	ay/Silt	Sand		Gravel	1	Cobbles	Boulders
Above OHWM Below OHWM	10	00	0	,	0		0	0
		Tre	se (%)		Shrub (%)		Herb (%)	Bare (%)
Above OHWM			(7.0)	-			100	0
Below OHWM		, dilic es \ \	Mid (hada a	- h m sh	o contingo) $\Box$	nto /	houbs abuubs a	0
Stage: ☐ Early (herb  Upland Species:	s & see	diings) 🗆	Bank Specie		s, saplings) 🗀 t	Section 1	neros, snrubs, r Emergent Speci	THE RESERVE TO A STATE OF THE PARTY OF THE P
(5)	me						Fesper Horn	
Bro hor Hol vir							Horn	nar
		3700						

Condition/Disturbances (e.g., erosic	on, grazing, culverts, etc.):	
None		
. 40. 0		
Hydrology:	1	
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
<b>₩</b> bry		
Observation of recovering (if everylable)		
Checklist of resources (if available):  Aerial photography	☐ Vegetation maps	GPS unit
Remotely-sensed images	B Soil maps	☐ Stream gage data
D Topographic maps	Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
A PART OF THE PART OF	V. 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Other drawings (plan view), notes:		
		STATE OF THE PARTY
		CALCULA MILLS
32 (1 o 5 lb ) K		
		THE RESIDENCE OF THE PARTY OF T
The second second second		A CONTRACTOR OF THE PARTY OF TH
		TO THE WAY COME THE
	due The Coatana com	times to noth
Other forms related to this reature:	a les in the feath out & cost	The state of the s
	and (wetland datasheet)	
☐ Terrace, fringe, or floodplain wetl	ontative section (OHWM datasheet)	
☐ Low flow channel or other repres	Silvave section (oritina datashed)	

Project: <u>556P</u>	Date	: 11/13/20:			Transect:
vestigator(s): U	B, AG1		Fe	eature Name: 495	11/5-2
Site Location: Swale be	L. 200 6	e hills			
5WING DA	2/1000000000000000000000000000000000000				
eature Type: 🖾 Eph	nemeral 🗆 Inter	mittent 🗆 Pere	nnial 🖾 Other 🕠	pland sworte	1 P FER
ransect (cross-sect	ion) drawing(s):			1	(
					View Facing: 1
			Ile	N. Committee	
			1		
☐ Transect length			2,5		
OHWM width					
□ Channel depth □ Photo					
<ul><li>□ Destruction</li><li>□ Presence of</li><li>□ Wracking</li></ul>	n the character on of terrestrial vor litter and debu	egetation ris	☐ Scou☐ Depo☐ Bed a☐ Wate	litter disturbed or was r sition and banks r staining ge in plant communit	
	Clay/Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM	100				
Below OHWM	100				
					- (0/)
bove OHWM	Т	ree (%)	Shrub (%)	Herb (%)	Bare (%)
Below OHWM				100	
	s & seedlings) [	1 Mid (herbs, sh	orubs, saplings) 🗆 I	_ate (herbs, shrubs, m	nature trees)
Jpland Species:	o a occage, =	Bank Species		Emergent Specie	
Holvir					
Anelma				Brimin Navarretia	
Avebor Ely capmed Brohor				Navarrena	SP
				HOLVIT	
Drohor				Holvir Brohor Corary	
				Carary	

□ Flowing water □ Standing water □ Saturated □ Dry    Dry   hecklist of resources (if available): □ Aerial photography □ Remotely-sensed images □ Aginfall/precipitation data   Min. depth:   Max. depth:   Avg. depth:   Max. depth:   Avg. depth:   Max. depth:   Avg. depth:   Max. depth:   Avg. de	lydrology:		
□ Standing water □ Saturated □ Dry  hecklist of resources (if available): □ Aerial photography □ Remotely-sensed images □ Topographic maps □ Geologic maps □ Existing delineation(s) for site  Max. depth:  Max. depth:  Max. depth:  GPS unit □ Stream gage data □ Other studies:		Avg. depth:	Min. depth
□ Saturated □ Dry  hecklist of resources (if available): □ Aerial photography □ Remotely-sensed images □ Topographic maps □ Rainfall/precipitation data □ Geologic maps □ Existing delineation(s) for site	☐ Standing water		
hecklist of resources (if available):  ☐ Aerial photography ☐ Remotely-sensed images ☐ Soil maps ☐ Rainfall/precipitation data ☐ Geologic maps ☐ Existing delineation(s) for site ☐ Comparison of the comparison	☐ Saturated		
☐ Aerial photography ☐ Remotely-sensed images ☐ Soil maps ☐ Rainfall/precipitation data ☐ Geologic maps ☐ Existing delineation(s) for site ☐ ☐ Geologic maps ☐ ☐ Comparison of the comparison o	☑ Dry		
☐ Remotely-sensed images ☐ Soil maps ☐ Rainfall/precipitation data ☐ Geologic maps ☐ Existing delineation(s) for site ☐ Control of the studies: ☐ C	hecklist of resources (if available	a):	
☐ Rainfall/precipitation data ☐ Other studies: ☐ Geologic maps ☐ Existing delineation(s) for site	Aerial photography	☐ Vegetation maps	☑ GPS unit
☐ Geologic maps ☐ Existing delineation(s) for site	☐ Remotely-sensed images	☑ Soil maps	☐ Stream gage data
	Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
ther drawings (plan view), notes:	☐ Geologic maps	☐ Existing delineation(s) for site	
	uter drawings (plan view), notes:		
	ther drawings (plan view), notes:		
	ther drawings (plan view), notes:		
	ther drawings (plan view), notes:		

Project: SSEP	Dat	e: 11/13/20:	2.0		Transect:
nvestigator(s):			Fe	eature Name: Ditc	h-1
Site Location:				1	
Remnant	Ag ditch	along :	Dillard Roa	20	
eature Type: 🖾 Epl	nemeral 🗆 Inte	rmittent 🛮 Perer	nnial 🗆 Other		
ransect (cross-sect	tion) drawing(s)	:			
					View Facing: <u>S</u>
- Roa	d	Oltwn -		F3.51	
Transect length OHWM width Channel depth Photo		-	8151	_1	
	E	W			
reak in Slope at OF		(>60°) Moder	rate (30-60°) □ Ge	entle (<30°)	
☐ Shelving ☐ Changes ir ☐ Destructio ☐ Presence of ☐ Wracking	e impressed on the character n of terrestrial v of litter and deb matted down,	of soil regetation	☐ Leaf☐ Scou☐ Depo	ment sorting litter disturbed or was r sition and banks r staining ge in plant communit	
	Clay/Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM	100				
selow OHWM	100				
		ree (%)	Shrub (%)	Herb (%)	Bare (%)
bove OHWM		2	0	98	
elow OHWM				100	
age: 🗆 Early (herb	s & seedlings) [	☐ Mid (herbs, sh	rubs, saplings) 🗖 l	ate (herbs, shrubs, m	nature trees)
pland Species:		Bank Species	1	Emergent Specie	es:
Broker		Lacser Horm Broker	00	Fesper Hormer Lacsor	
		Brohor	ra-	Rumers	

lydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
'Dry		
Ne and Parage - Community	,	
hecklist of resources (if available		TI ODGit
<ul><li>☑ Aerial photography</li><li>☑ Remotely-sensed images</li></ul>	☐ Vegetation maps	GPS unit
☐ Topographic maps	<ul><li>زSoil maps</li><li>☐ Rainfall/precipitation data</li></ul>	☐ Stream gage data ☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	Dottler studies.
Other drawings (plan view), notes:		
ther drawings (plan view), notes:		
ther drawings (plan view), notes:		
ther drawings (plan view), notes:		
ther drawings (plan view), notes:		
ther drawings (plan view), notes:		
ther drawings (plan view), notes:		
other drawings (plan view), notes:		
other drawings (plan view), notes:		
other drawings (plan view), notes:		

Site Location:					
Remneent	Ag dita	ch			
eature Type:  Epl			nial 🗆 Other		
ransect (cross-sect	tion) drawing(s):				V
cul	Frated pastur	land	15' TC	DB 1	View Facing: W
	Ų	Was W	1)	JY I4	1,5
Transect length		0		OHWM	
☐ OHWM width			10,5		
Channel depth					
Channel depth Photo  reak in Slope at Ol Natural lin Shelving Changes in	e impressed on	the bank	☐ Leaf li ☐ Scour	ent sorting tter disturbed or was	hed away
reak in Slope at OF  Natural lin Shelving Changes in Destructio Presence of Wracking	e impressed on	the bank of soil egetation ris	☐ Sedim ☐ Leaf li ☐ Scour ☐ Depos ☐ Bed al	ent sorting tter disturbed or was	
Channel depth Photo  reak in Slope at Oh Natural lin Shelving Changes in Destructio Presence of Wracking Vegetation	e impressed on n the character on n of terrestrial vo of litter and debr	the bank of soil egetation ris	☐ Sedim ☐ Leaf li ☐ Scour ☐ Depos ☐ Bed al	ent sorting tter disturbed or was ition nd banks staining	
Channel depth Photo  reak in Slope at Oh Natural lin Shelving Changes ir Destructio Presence of Wracking Vegetation	e impressed on the character on of terrestrial vo of litter and debr matted down, b	the bank of soil egetation ris pent, or absent	☐ Sedim ☐ Leaf li ☐ Scour ☐ Depos ☐ Bed ai ☐ Water ☐ Chang	ent sorting tter disturbed or was ition nd banks staining e in plant community	/
Channel depth Photo  reak in Slope at Oh Natural lin Shelving Changes ir Destructio Presence of Wracking Vegetation	e impressed on the character of n of terrestrial vo of litter and debr matted down, b	the bank of soil egetation ris pent, or absent	☐ Sedim ☐ Leaf li ☐ Scour ☐ Depos ☐ Bed ai ☐ Water ☐ Chang	ent sorting tter disturbed or was ition nd banks staining e in plant community	/
Channel depth Photo  Peak in Slope at Oh Natural lin Shelving Changes in Destructio Presence of Wracking Vegetation  Dove OHWM	e impressed on the character of n of terrestrial voor litter and debr	the bank of soil egetation ris pent, or absent	☐ Sedim ☐ Leaf li ☐ Scour ☐ Depos ☐ Bed ai ☐ Water ☐ Chang	ent sorting tter disturbed or was ition nd banks staining e in plant community	/
Channel depth Photo  reak in Slope at OH Natural lin Shelving Changes in Destructio Presence of Wracking Vegetation  Above OHWM	e impressed on the character of n of terrestrial vo of litter and debri matted down, to Clay/Silt	the bank of soil egetation ris pent, or absent	☐ Sedim ☐ Leaf li ☐ Scour ☐ Depos ☐ Bed ai ☐ Water ☐ Chang	ent sorting tter disturbed or was ition nd banks staining e in plant community  Cobbles  Herb (%)	Boulders
Channel depth Photo  reak in Slope at Oh Natural lin Shelving Changes in Destructio Presence of Wracking Vegetation  Above OHWM  Below OHWM	e impressed on the character of n of terrestrial vo of litter and debr	the bank of soil egetation ris pent, or absent  Sand	☐ Sedim ☐ Leaf li ☐ Scour ☐ Depos ☐ Bed ai ☐ Water ☐ Chang  Gravel	ent sorting tter disturbed or was ition nd banks staining e in plant community  Cobbles  Herb (%)	Boulders Bare (%)
Channel depth Photo  reak in Slope at OH Natural lin Shelving Changes in Destructio Presence of Vegetation  Above OHWM Below OHWM Below OHWM Below OHWM	e impressed on the character of n of terrestrial vo of litter and debr	the bank of soil egetation ris pent, or absent  Sand  ree (%)	Sedim Leaf li Scour Depos Bed ai Water Chang  Gravel  Shrub (%)	ent sorting tter disturbed or was ition nd banks staining e in plant community  Cobbles  Herb (%)	Bare (%)
Channel depth Photo  reak in Slope at Oh Natural lin Shelving Changes in Destructio Presence of Wracking Vegetation  Above OHWM Below OHWM Below OHWM Below OHWM Below OHWM Below OHWM Below OHWM Below OHWM	e impressed on the character of n of terrestrial vo of litter and debr	the bank of soil egetation ris pent, or absent  Sand ree (%)  Mid (herbs, shr  Bank Species:	Sedim Leaf li Scour Depos Bed an Water Chang  Gravel  Shrub (%)  Cubs, saplings) □ La	ent sorting tter disturbed or was ition nd banks staining e in plant community  Cobbles  Herb (%)  Herb (%)  Ite (herbs, shrubs, m	Bare (%)
Channel depth Photo  reak in Slope at OH Natural lin Shelving Changes in Destructio Presence of Wracking Vegetation  Above OHWM Below OHWM Below OHWM Below OHWM Below OHWM Below OHWM Below OHWM Below OHWM	e impressed on the character of n of terrestrial vo of litter and debr	sthe bank of soil egetation ris pent, or absent  Sand  Tee (%)  Mid (herbs, shr  Bank Species:	Sedim Leaf li Scour Depos Bed an Water Chang  Gravel  Shrub (%)  Cubs, saplings) □ La	ent sorting tter disturbed or was ition nd banks staining e in plant community  Cobbles  Herb (%)  Herb (%)  Ite (herbs, shrubs, m	Bare (%)
Channel depth Photo  reak in Slope at OH Natural lin Shelving Changes in Destructio Presence of Vegetation  Above OHWM Below OHWM Below OHWM Below OHWM Below OHWM Cage: A Early (herb	e impressed on the character of n of terrestrial vo of litter and debr	the bank of soil egetation ris pent, or absent  Sand  Tee (%) S  Mid (herbs, shr  Bank Species:	Sedim Leaf li Scour Depos Sed an Water Chang  Shrub (%)  Cubs, saplings) □ La	ent sorting tter disturbed or was ition nd banks staining e in plant community  Cobbles  Herb (%)  To the community  Ite (herbs, shrubs, manual shrubs, manual shrubs, shrubs, manual shrubs, manual shrubs, manual shrubs, manual shrubs, manual shrubs, manual shrubs, shrubs, manual shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, shrubs, manual shrubs, shrubs, shrubs, manual shrubs, shru	Bare (%)
Channel depth Photo  reak in Slope at Oh Natural lin Shelving Changes in Destructio Presence of Wracking Vegetation  Above OHWM Below OHWM Below OHWM Below OHWM Cage: Early (herb	e impressed on the character of n of terrestrial vo of litter and debr	sthe bank of soil egetation ris pent, or absent  Sand  Tee (%)  Mid (herbs, shr  Bank Species:	Sedim Leaf li Scour Depos Sed an Water Chang  Shrub (%)  Cubs, saplings) □ La	ent sorting tter disturbed or was ition nd banks staining e in plant community  Cobbles  Herb (%)  To the community  Ite (herbs, shrubs, manual shrubs, manual shrubs, shrubs, manual shrubs, manual shrubs, manual shrubs, manual shrubs, manual shrubs, manual shrubs, shrubs, manual shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, manual shrubs, shrubs, shrubs, manual shrubs, shrubs, shrubs, manual shrubs, shru	Bare (%)
Channel depth Photo  reak in Slope at OH Natural lin Shelving Changes in Destructio Presence of Vegetation  Above OHWM Below OHWM Below OHWM Below OHWM Below OHWM Cage: A Early (herb	e impressed on the character of n of terrestrial vo of litter and debr	the bank of soil egetation ris pent, or absent  Sand  Tee (%) S  Mid (herbs, shr  Bank Species:	Sedim Leaf li Scour Depos Sed an Water Chang  Shrub (%)  Cubs, saplings)  La	ent sorting tter disturbed or was ition nd banks staining e in plant community  Cobbles  Herb (%)  Herb (%)  Ite (herbs, shrubs, m	Bare (%)

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sion, grazing, culverts, etc.):  Avg. depth:	sed for goat
	sed for goat
	4
	4
Avg donth	
Avg donth	
Avg depth:	
Avg. deptil.	Min. depth:
Temp:	Max. depth:
	TT Ano
1 1 -	GPS unit
1 /	☐ Stream gage data ☐ Other studies:
11 1	D Other studies.
, , , , , , , , , , , , , , , , , , , ,	
	Uvegetation maps Soil maps Rainfall/precipitation data Existing delineation(s) for site

Page <u>2</u>

PD-01-214 **OHWM DATA SHEET** Date: Transect: Project: Investigator(s): Feature Name: Site Location: CONSUMINES RIVER Feature Type: ☐ Ephemeral ☐ Intermittent ☐ Perennial ☐ Other Transect (cross-section) drawing(s): unpersed View Facing: levy mad TOB = Granifestab ☐ Transect length OHWM = OHWM width ☐ Channel depth ☐ Photo Break in Slope at OHWM: ☐ Sharp (>60°) ☐ Moderate (30-60°) ☐ Gentle (<30°) Sediment sorting Natural line impressed on the bank Leaf litter disturbed or washed away ☑ Shelving

Clay/Silt Sand Gravel Cobbles Boulders

Above OHWM 50 0 50 (Fip - Rop)

Below OHWM 0 100 0 0

Scour

Deposition

Bed and banks

Water staining

□ Change in plant community

	Tree (%)	Shrub (%)	Herb (%)	Bare (%)
Above OHWM	25	25	50	0
Below OHWM	0	2.5	25	50

Stage: ☐ Early (herbs & seedlings) ☐ Mid (herbs, shrubs, saplings) ☐ Late (herbs, shrubs, mature trees)

Upland Species:	Bank Species:	Emergent Species:
Yellowstartlistle	Valle yook	Salix Spp
Halianthistle NNgrasses	(A Grape Salix	cottonwood
Coastive oak	conjummaculatum	
Black Nalnut	Sambucus	

Page \_\_\_\_

☐ Changes in the character of soil

☑ Presence of litter and debris

□ Wracking

☐ Destruction of terrestrial vegetation

Vegetation matted down, bent, or absent

ydrology:		
Flowing water	Avg. depth: 5 f+	Min. depth:   F+
☐ Standing water	Temp:	Max. depth:
☐ Saturated	7	10 4+
□ Dry		
necklist of resources (if available	e):	
S-Kerial photography	☐ Vegetation maps	GPS unit
☐ Remotely-sensed images	Ď-8oil maps	☐ Stream gage data
☐ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
Geologic maps	Existing delineation(s) for site	
ner drawings (plan view), notes:		
ner drawings (pian view), notes:		
riei drawings (pian view), notes:		
riei drawings (pian view), notes:		
rier drawings (pian view), notes:		
iner drawings (plan view), notes:		
rier drawings (plan view), notes:		
riei drawings (pian view), notes:		
ther drawings (plan view), notes:		

nvestigator(s):		ate: 11/13/20			Transect:
	-B, AG		F	eature Name:US	-11/13-1
Site Location:	uphill	from 5	easonal	netland	
eature Type: 🖾 Ep	hemeral 🗖 In	termittent 🗆 Pere	nnial 🖾 Other V	between 2	topographic
ransect (cross-sect	tion) drawing(	s):	,	between 2	WILLS !
					View Facing: <u>ろい</u>
<ul><li>☐ Shelving</li><li>☐ Changes in</li><li>☐ Destructio</li></ul>	e impressed on the characte	on the bank er of soil I vegetation	☐ Sedir ☐ Leaf ☐ Scou ☐ Depo ☐ Bed a	ment sorting litter disturbed or wa	shed away
_	matted dowr	n, bent, or absent	☑ Chan	ge in plant communi	ty
	Clay/Silt	Sand	Gravel	Cobbles	
	-				Boulders
Nove OHWM	100				Boulders
	100				Boulders
	-	Troo (%)	Chrub (W)	Horb (%)	
Below OHWM	-	Tree (%)	Shrub (%)	Herb (%)	Boulders  Bare (%)
Below OHWM	-	Tree (%)	Shrub (%)	Herb (%)	
Above OHWM Below OHWM	100			100	Bare (%)
Above OHWM Below OHWM Below OHWM	100		rubs, saplings) 🗆 L	100	Bare (%)
Above OHWM Below OHWM Below OHWM Dege:  Early (herbs)	100	) □ Mid (herbs, sh	rubs, saplings) 🗆 L	100 100 Late (herbs, shrubs, n	Bare (%)
Above OHWM Below OHWM Below OHWM Cage:   Early (herbs	100	) ☐ Mid (herbs, sh	rubs, saplings) 🗆 L	100 100 Late (herbs, shrubs, n	Bare (%)
Upland Species:	100	) ☐ Mid (herbs, sh	rubs, saplings) 🗆 L	100 100 Late (herbs, shrubs, n	Bare (%)
Above OHWM Below OHWM tage:  Early (herbs	100	) □ Mid (herbs, sh	rubs, saplings) 🗆 L	100 100 .ate (herbs, shrubs, n	Bare (%)
Above OHWM Below OHWM tage:   Early (herbs Upland Species:	100	) ☐ Mid (herbs, sh	rubs, saplings) 🗆 L	100 100 Late (herbs, shrubs, n	Bare (%)
Above OHWM Below OHWM Cage:  Early (herbs	100	) ☐ Mid (herbs, sh	rubs, saplings) 🗆 L	100 100 Late (herbs, shrubs, n	Bare (%)

ydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
<b>∑</b> Dry		
hecklist of resources (if available	e):	
☑ Aerial photography	☐ Vegetation maps	GPS unit
☐ Remotely-sensed images	☑ Soil maps	☐ Stream gage data
🗹 Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	
ther drawings (plan view), notes		
ther drawings (plan view), notes		

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Project:		11/3/2		eature Name: <u> </u>	Transect:
nvestigator(s):	6		Fe	eature Name:	111) 02
Site Location:					
SE corner	ofsite				
eature Type:   Eph	emeral 🗆 Interi	mittent 🗆 Pere	nnial 🗆 Other		
ransect (cross-secti	on) drawing(s):				
	1	Bromus (:01	jearens rdeun marina	Holocarp	View Facing:
		5 4	twide		
□ Transect length □ OHWM width □ Channel depth □ Photo					
☐ Shelving ☐ Changes in ☐ Destruction ☐ Presence of ☐ Wracking	e impressed on the character of of terrestrial void if litter and debring matted down, k	of soil egetation is	☐ Leaf ☐ Scou ☐ Depo ☐ Bed a		
	Clay/Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM	10-			· ·	
Below OHWM	100				
	T	ree (%)	Shrub (%)	Herb (%)	Bare (%)
bove OHWM		2	0	100	
Below OHWM				100	
age: 🗆 Early (herbs	s & seedlings) 🗆	Mid (herbs, sh	nrubs, saplings) 🗖 l	_ate (herbs, shrubs, r	
Upland Species:		Bank Species	s:	Emergent Speci	es:

OH	IWN	1 DA	TA S	HEFT

lydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		Max. dopti.
th ory		
Checklist of resources (if available	e):	
Aerial photography	☐ Vegetation maps	GPS unit
☐ Remotely-sensed images	Soil maps	☐ Stream gage data
Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	Existing delineation(s) for site	
Other drawings (plan view), notes		
Other drawings (plan view), notes		
Other drawings (plan view), notes		

Beature Type: Dephemeral   Intermittent   Perennial   Other  ransect (cross-section) drawing(s):  View Facing: Department   Department	m	AG1, LB			ture Name:	
Transect (cross-section) drawing(s):    Transect length	Site Location:					
Transect length   Transect l						
Transect (cross-section) drawing(s):    Transect length	eature Type: [] Fr	hemeral Π Intern	nittent ∏ Pereni	nial □ Other		
Transect length   OHWM width   Channel depth   Photo   Preak in Slope at OHWM:   Sharp (>60°)   Moderate (30-60°)   Gentle (<30°)   Leaf litter disturbed or washed away   Shelving   Changes in the character of soil   Destruction of terrestrial vegetation   Presence of litter and debris   Water staining   Water staining   Wegetation matted down, bent, or absent   Clay/slit   Sand   Gravel   Cobbles   Boulders				mai 🗖 otrici		
Transect length   OHWM width   Channel depth   Photo	14113001 (01033 300	cion) drawing(s).		6	11.0	View Facing:
Transect length OHWM width Channel depth Photo  reak in Slope at OHWM: Sharp (>60°) Moderate (30-60°) Gentle (<30°)    Natural line impressed on the bank Shelving Scour Scour Deposition Bed and banks Shelving Water staining Water staining Sharp (>60°) Sand Gravel Cobbles Boulders    Clay/Silt Sand Gravel Cobbles Boulders   Above OHWM   Tree (%) Shrub (%) Herb (%) Bare (%)     Above OHWM   Tree (%) Shrubs, saplings) Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, shrubs, saplings)   Late (herbs, shrubs, sh				10 1- Me	130	view racing.
Transect length  OHWM width  Channel depth  Photo  Treak in Slope at OHWM: Sharp (>60°) Moderate (30-60°) Gentile (<30°)  Natural line impressed on the bank Shelving Changes in the character of soil Destruction of terrestrial vegetation Presence of litter and debris Wracking Water staining Vegetation matted down, bent, or absent  Clay/Silt Sand Gravel Cobbles Boulders  Above OHWM Below OHWM Be			Q	Low Cal Ho	A VAN	red qui
Transect length OHWM width Channel depth Photo    Natural line impressed on the bank   Sediment sorting   Leaf litter disturbed or washed away   Scour   Deposition   Deposition   Bed and banks   Water staining   Water staining   Water staining   Water staining   Change in plant community   Clay/Silt   Sand   Gravel   Cobbles   Boulders	1.1	1.1	(1/2)	e e e e e	1 aylat	ava Blox
Transect length OHWM width Channel depth Photo  reak in Slope at OHWM: Sharp (>60°) Moderate (30-60°) Gentle (<30°)    Natural line impressed on the bank Shelving Scour Scour Deposition Bed and banks Shelving Water staining Water staining Sharp (>60°) Sand Gravel Cobbles Boulders    Clay/Silt Sand Gravel Cobbles Boulders   Above OHWM   Tree (%) Shrub (%) Herb (%) Bare (%)     Above OHWM   Tree (%) Shrubs, saplings) Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, mature trees)   Late (herbs, shrubs, mature trees)     Late (herbs, shrubs, shrubs, saplings)   Late (herbs, shrubs, sh	J A.A.	N. V.	help, Faley	Call	X	X
Transect length  OHWM width  Channel depth  Photo  Treak in Slope at OHWM: Sharp (>60°) Moderate (30-60°) Gentle (<30°)  Natural line impressed on the bank Shelving Changes in the character of soil Destruction of terrestrial vegetation Presence of litter and debris Wracking Vegetation matted down, bent, or absent  Clay/Silt Sand Gravel Cobbles Boulders  Above OHWM Below OHWM  Tree (%) Shrub (%) Herb (%) Bare (%)  Above OHWM Below OHWM Below OHWM Below OHWM  Below OHWM	-		7			
Transect length  OHWM width  Channel depth  Photo  reak in Slope at OHWM: Sharp (>60°) Moderate (30-60°) Gentle (<30°)  Natural line impressed on the bank Shelving Changes in the character of soil Destruction of terrestrial vegetation Presence of litter and debris Wracking Vegetation matted down, bent, or absent  Clay/Silt Sand Gravel Cobbles Boulders  Above OHWM Below OHWM  Tree (%) Shrub (%) Herb (%) Bare (%)  Above OHWM Below OHWM Be						(12 20
□ OHWM width □ Channel depth □ Photo  reak in Slope at OHWM: □ Sharp (>60°) □ Moderate (30-60°) □ Gentle (<30°) □ Natural line impressed on the bank □ Shelving □ Changes in the character of soil □ Destruction of terrestrial vegetation □ Presence of litter and debris □ Wracking □ Vegetation matted down, bent, or absent  Clay/Silt Sand Gravel Cobbles Boulders  Above OHWM Below OHWM B					Dreak	3 (0 ) 2
□ OHWM width □ Channel depth □ Photo  reak in Slope at OHWM: □ Sharp (>60°) □ Moderate (30-60°) □ Gentle (<30°) □ Natural line impressed on the bank □ Shelving □ Changes in the character of soil □ Destruction of terrestrial vegetation □ Presence of litter and debris □ Wracking □ Vegetation matted down, bent, or absent  Clay/Silt Sand Gravel Cobbles Boulders  Above OHWM Below OHWM B		4	+	-1		
□ OHWM width □ Channel depth □ Photo    Preak in Slope at OHWM: □ Sharp (>60°) □ Moderate (30-60°) □ Gentle (<30°) □ Natural line impressed on the bank □ Shelving □ Changes in the character of soil □ Destruction of terrestrial vegetation □ Presence of litter and debris □ Wracking □ Vegetation matted down, bent, or absent    Clay/Silt   Sand   Gravel   Cobbles   Boulders     Above OHWM   Below OHWM     Below OHWM   Below OHWM     Below OHWM   Below OHWM   Below OHWM     Below OHWM   Below OHWM   Below OHWM     Below OHWM   Below OHWM   Below OHWM     Clay/Silt   Sand   Gravel   Cobbles   Boulders     Change in plant community	□ Transport langth			ciante		
Natural line impressed on the bank   Sediment sorting   Leaf litter disturbed or washed away   Sediment sorting   Leaf litter disturbed or washed away   Sediment sorting   Leaf litter disturbed or washed away   Sediment sorting   Leaf litter disturbed or washed away   Sediment sorting   Leaf litter disturbed or washed away   Sediment sorting   Leaf litter disturbed or washed away   Sediment sorting   Sedime	-T 100		/	1 - (0)		
reak in Slope at OHWM:   Sharp (>60°)   Moderate (30-60°)   Gentle (<30°)     Natural line impressed on the bank   Shelving   Leaf litter disturbed or washed away     Changes in the character of soil   Scour   Deposition     Destruction of terrestrial vegetation   Deposition   Bed and banks   Water staining   Water staining   Change in plant community     Clay/Silt   Sand   Gravel   Cobbles   Boulders     Above OHWM   Gravel   Cobbles   Gravel   Cobbles   Gravel   Gr	☐ Channel depth					
Natural line impressed on the bank   Sediment sorting   Leaf litter disturbed or washed away   Shelving   Leaf litter disturbed or washed away   Scour   Deposition   Deposition   Deposition   Deposition   Deposition   Bed and banks   Water staining   Water staining   Change in plant community   Change in p	<b>J</b> Photo					
Tree (%)  Shrub (%)  Bare (%)  Shrub (%)  Bare (%)  Shove OHWM  Below OHWM  Be	☐ Changes ☐ Destruction ☐ Presence ☐ Wracking	on of terrestrial ve of litter and debri	egetation s	☐ Scour☐ Depos☐ Bed ar☐ Water	ition nd banks staining	
Tree (%)  Shrub (%)  Above OHWM  Below OHW		Clay/Silt	Sand	Gravel		
Tree (%)  Above OHWM  Below OHWM  Rage:   Early (herbs & seedlings)   Mid (herbs, shrubs, saplings)   Late (herbs, shrubs, mature trees)  William Species:  Emergent Species:				diavoi	Cobbles	Boulders
Above OHWM  Below OHWM  tage:   Early (herbs & seedlings)   Mid (herbs, shrubs, saplings)   Late (herbs, shrubs, mature trees)  Upland Species:  Emergent Species:	Above OHWM			diavoi	Cobbles	Boulders
Above OHWM  Below OHWM  age: □ Early (herbs & seedlings) □ Mid (herbs, shrubs, saplings) □ Late (herbs, shrubs, mature trees)  ### ### ### ### ### ### ### ### ### #		<u>γ</u> ===		diavoi	Cobbles	Boulders
tage: □ Early (herbs & seedlings) □ Mid (herbs, shrubs, saplings) □ Late (herbs, shrubs, mature trees)  Upland Species:  Emergent Species:  Emergent Species:			ee (%)			
Upland Species: Emergent Species:	Below OHWM		ee (%)			
Fesper	Below OHWM  Above OHWM		ee (%)			
Elyrapined Horman	Above OHWM Below OHWM	Tro		Shrub (%)	Herb (%)	Bare (%)
His hor	Above OHWM Below OHWM tage:   Early (herb	Tro	Mid (herbs, shr	Shrub (%) ubs, saplings) 🗆 La	Herb (%) te (herbs, shrubs, m	Bare (%) ature trees)
Broker	Above OHWM Below OHWM tage:   Early (herb	Tro	Mid (herbs, shr	Shrub (%)	Herb (%) te (herbs, shrubs, m	Bare (%) ature trees)
this has	Above OHWM Below OHWM tage:  Early (hert	Tro	Mid (herbs, shr	Shrub (%)	Herb (%) te (herbs, shrubs, m	Bare (%) ature trees)
	Above OHWM Below OHWM tage:   Early (hert	Tro	Mid (herbs, shr	Shrub (%)	Herb (%) te (herbs, shrubs, m	Bare (%) ature trees)
11/1 E	Above OHWM Below OHWM sage:  Early (herb	Tro	Mid (herbs, shr	Shrub (%)	Herb (%) te (herbs, shrubs, m	Bare (%) ature trees)
	Upland Species:	Tro	Mid (herbs, shr	Shrub (%)	Herb (%) te (herbs, shrubs, m	Bare (%) ature trees)

☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated		
Ď fory		
hecklist of resources (if available	e):	
☐ Aerial photography	☐ Vegetation maps	☐ GPS unit
☐ Remotely-sensed images	☐ Soil maps	☐ Stream gage data
☐ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	

Prof Sinemeral □ Interion) drawing(s)	rmittent 🗆 Per	ennial 🗆 Other	eature Name: <u>SW</u>	
emeral 🗖 Inte	rmittent 🗆 Per	ennial 🗆 Other		
		ennial 🗆 Other		
				View Facing:
WM. \( \tau \) Shorp (		+ OHWM		anches
the character of terrestrial versions of terrestrial versions of terrestrial versions.	the bank of soil regetation ris	☐ Sedir ☐ Leaf ☐ Scou ☐ Depo ☐ Bed a	ment sorting litter disturbed or wa r osition and banks or staining	
Clay/Silt	Sand	Gravel	Cobbles	Boulders
100	1-5	-	0	10
Т	ree (%)	Shrub (%)	Herb (%)	Bare (%)
	0			5
	1		75	25
& seedlings) [	Mid (herbs, s	hrubs, saplings) 🗆 L	ate (herbs, shrubs, n	nature trees)
ed	Bank Specie	s:	Emergent Specie	
	the character of terrestrial of litter and deb matted down,	WM:  Sharp (>60°)  Mode impressed on the bank the character of soil of terrestrial vegetation flitter and debris matted down, bent, or absent  Clay/Silt Sand  Tree (%)  & seedlings)  Mid (herbs, s	WM: Sharp (>60°) Moderate (30-60°) Ge impressed on the bank Seding the character of soil Scoul of terrestrial vegetation Bed a matted down, bent, or absent Chan  Clay/Silt Sand Gravel  Tree (%) Shrub (%)	WM: □ Sharp (>60°) □ Moderate (30-60°) □ Gentle (<30°)  impressed on the bank □ Sediment sorting □ Leaf litter disturbed or wa the character of soil □ Scour □ Of terrestrial vegetation □ Deposition □ Bed and banks □ Water staining □ Change in plant communi  Clay/Silt Sand Gravel Cobbles  Tree (%) Shrub (%) Herb (%) □ Water staining □ Change in plant communication  Clay/Silt Sand Gravel Cobbles □ Shrub (%) Herb (%) □ Late (herbs, shrubs, notation of the bank

ydrology:		
☐ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
☐ Saturated	Tomp.	wax. dopti.
☐ Dry		
4.50		
checklist of resources (if availab	le):	
☐ Aerial photography	☐ Vegetation maps	☐ GPS unit
☐ Remotely-sensed images	☐ Soil maps	☐ Stream gage data
☐ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	
ther drawings (plan view), notes	52	
ther drawings (plan view), notes		
other drawings (plan view), notes		
Other drawings (plan view), notes		
Other drawings (plan view), notes		
other drawings (plan view), notes		
other drawings (plan view), notes		
Other drawings (plan view), notes		
Other drawings (plan view), notes		
Other drawings (plan view), notes		
Other drawings (plan view), notes		

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roject: SSEP Dat	te: \\/\3/2	DATA SHEET		Transect:
vestigator(s):			ature Name: 5 \	
Site Location:				
eature Type: DEphemeral DInte	rmittent 🗆 Perenr	nial 🗆 Other		
ansect (cross-section) drawing(s)	:			- 1
		201	0	View Facing:
MILL	Flater of	perenn 33°	20\0	Dy (9p-med)
□ Transect length □ ØHWM width □ Channel depth □ Photo		Et OHWM		
<ul> <li>□ Natural line impressed or</li> <li>□ Shelving</li> <li>□ Changes in the character</li> <li>□ Destruction of terrestrial</li> <li>□ Presence of litter and det</li> <li>□ Wracking</li> <li>□ Vegetation matted down,</li> </ul>	of soil vegetation oris	☐ Leaf lit ☐ Scour ☐ Depos ☐ Bed ar ☐ Water	ent sorting tter disturbed or was ition nd banks staining e in plant community	
Clay/Silt	Sand	Gravel	Cobbles	Boulders
bove OHWM				
elow OHWM				
bove OHWM	Tree (%)	Shrub (%)	Herb (%)	Bare (%)
elow OHWM				
31017 01177171	D Mind (In out on other)	the continues 🗆 La	to the also also use we	
	i i wiid (nerns shri	JDS, Sapiings) 🗀 La	Emergent Species:	
age:   Early (herbs & seedlings)    Ipland Species:	Bank Species:			PS:

□ Flowing water Avg. depth: Min. depth: □ Standing water Temp: Max. depth: □ Saturated □ Dry  Checklist of resources (if available): □ Aerial photography □ Vegetation maps □ GPS unit □ Remotely-sensed images □ Soil maps □ Stream gage data	Hydrology:		
□ Standing water □ Saturated □ Dry  Checklist of resources (if available): □ Aerial photography □ Remotely-sensed images □ Topographic maps □ Geologic maps □ Existing delineation(s) for site  Max. depth:  Max. depth: □ GPS unit □ GPS unit □ Stream gage data □ Other studies: □ Checklist of resources (if available): □ Aerial photography □ Soil maps □ Stream gage data □ Other studies:		Avg. depth:	Min. depth:
□ Saturated □ Dry  Checklist of resources (if available): □ Aerial photography □ Remotely-sensed images □ Topographic maps □ Geologic maps □ Existing delineation(s) for site			
Checklist of resources (if available):  Aerial photography Remotely-sensed images Soil maps Soil maps Rainfall/precipitation data Geologic maps Existing delineation(s) for site	☐ Saturated		
□ Aerial photography       □ Vegetation maps       □ GPS unit         □ Remotely-sensed images       □ Soil maps       □ Stream gage data         □ Topographic maps       □ Rainfall/precipitation data       □ Other studies:         □ Geologic maps       □ Existing delineation(s) for site	☐ Dry		
□ Remotely-sensed images       □ Soil maps       □ Stream gage data         □ Topographic maps       □ Rainfall/precipitation data       □ Other studies:         □ Geologic maps       □ Existing delineation(s) for site	Checklist of resources (if available	e):	
☐ Topographic maps ☐ Rainfall/precipitation data ☐ Other studies: ☐ Geologic maps ☐ Existing delineation(s) for site	☐ Aerial photography	☐ Vegetation maps	☐ GPS unit
☐ Geologic maps ☐ Existing delineation(s) for site	☐ Remotely-sensed images	☐ Soil maps	☐ Stream gage data
	☐ Topographic maps	☐ Rainfall/precipitation data	☐ Other studies:
other drawings (plan view), notes:	☐ Geologic maps	☐ Existing delineation(s) for site	

Project: SSEP	Date		DATA SHEET		Transect:
nvestigator(s):			—— Fe	ature Name:	Transect.
Site Location:					
drainage	ditehe	long we	st side	of Dillaro	1 Rd
eature Type: 🗆 Eph	nemeral 🗆 Inter	mittent 🗆 Pereni	nial 🖾 Other		
ransect (cross-sect	ion) drawing(s):				5
			orpe	n grassland	View Facing:
DillardR	d	1113:51	M	-ngrassland	Ţ.
a The second sec	+	1.0.0	$\rightarrow \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel \parallel$		
	31 15	Eag.			
	1	Anna 1	f.		
Transect length = 1	5	22276			
S-OHWM width		215	.1		
Y Channel depth → Photo		OHWM=	1,		
- THOLO					
reak in Slope at Ol	IWM: □ Sharp (	>60°) □ Modera	ate (30-60°) 🗖 Ger	ntle (<30°)	
☐ Natural lin	e impressed on	the bank		ent sorting	
☐ Shelving ☐ Changes in	the character o	of soil	☐ Leaf li	tter disturbed or was	sned away
☐ Destructio	n of terrestrial v	egetation	Depos		
	of litter and debr	ris	Bed a ☐ Water	nd banks staining	
☐ Wracking ✓ Vegetation	matted down, b	ent or absent		staining (e in plant communit	y and/or cover
_ vogetation	Thattad down, k	ionia, or apoorty.			
	Clay/Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM	0		100	10	
Below OHWM	50		50		
	Т	ree (%)	Shrub (%)	Herb (%)	Bare (%)
Above OHWM				50	50
Below OHWM	1			90	10
age: 🗘 Early (herb	s & seedlings) 🗆	Mid (herbs, shr	ubs, saplings) 🗖 L	ate (herbs, shrubs, n	nature trees)
Jpland Species:		Bank Species:		Emergent Specie	es:
Bromucco	n			d	
Bromussp Arenaspp	/			X	
Trena spp					

rosion, grazing, culverts, etc.):	
Avg. depth: Temp:	Min. depth:  Max. depth:
T.	
☐ Vegetation maps ☐ Soil maps ☐ Rainfall/precipitation data ☐ Existing delineation(s) for site	☐ GPS unit ☐ Stream gage data ☐ Other studies:
appears to recieve who from southeasters to ditch on ease ax culverts und	rn corner of t side of er the road.
	Temp:  D Vegetation maps Soil maps Rainfall/precipitation data

Page >

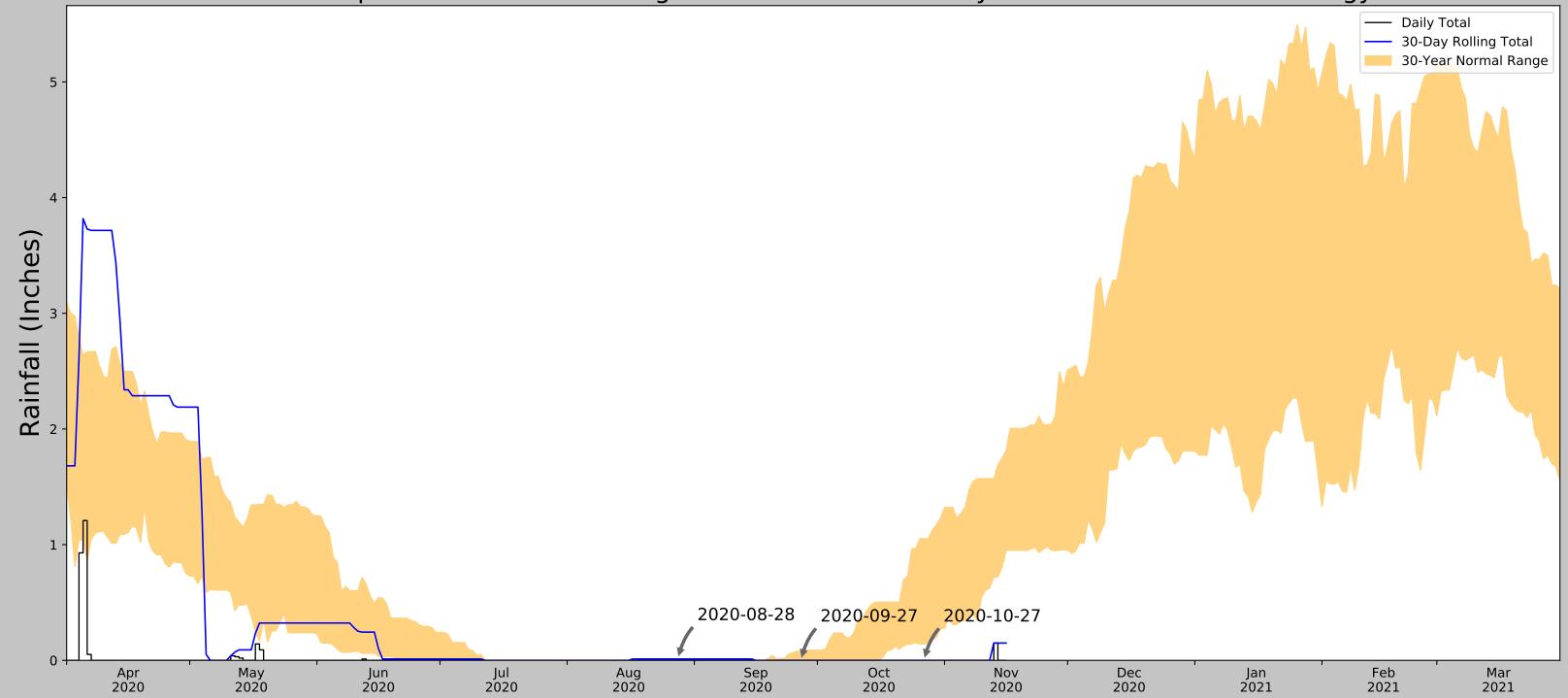
1720			M DATA SHEET		2
Project: SSEP	Date	e:			Transect:
nvestigator(s):	LG		Fe	eature Name:	
Site Location:					
drainaged	itch a	long e	ast side e	f Dillard	Rd
eature Type: 🗆 Ephe	emeral □ Inter	rmittent 🏻 Pere	ennial 🗗 Other		
ransect (cross-section			250, 250, 250		
·					View Facing:
Transect length 2 OHWM width Channel depth Photo	0 1		3 / J4' M= 21	Mard Rd	
□ Natural line □ Shelving □ Changes in □ Destruction □ Presence of □ Wracking	impressed on the character of terrestrial v litter and deb	the bank of soil	☐ Leaf☐ Scoul☐ Depo☐ Bed a☐ Wate	nent sorting litter disturbed or was r	
	Clay/Silt	Sand	Gravel	Cobbles	Boulders
Above OHWM	Clay/Silt	Salid	diavei	COBBICS	Bodidois
Below OHWM	75	1	2.5		
iolow or treat	15		- 1		
	7	Tree (%)	Shrub (%)	Herb (%)	Bare (%)
bove OHWM		(70)	Olliab (70)	50	
elow OHWM				75	50
	0 111 1 3 1	7.4:17		at a Charaka a kamaka a	75
	& seedlings) L			ate (herbs, shrubs, n	
Ipland Species:		Bank Specie	es:	Emergent Specie	es:
Bromus Sp	p				
Λ					
Bromus sp.	p				
Brassica	hi e				
v14311(a	my ra				

Hydrology: □ Flowing water	Avg. depth:	Min. depth:
☐ Standing water	Temp:	Max. depth:
<b>⊠</b> -8aturated		man depair
□ Dry		
hecklist of resources (if available	e):	
Aerial photography	1 Vegetation maps	☐ GPS unit
☐ Remotely-sensed images	□ <del>S</del> oil maps	☐ Stream gage data
☐ Topographic maps	Rainfall/precipitation data	☐ Other studies:
☐ Geologic maps	☐ Existing delineation(s) for site	
ther drawings (plan view), notes:		
side of Dilla	onnects to ditch rd via 2x culv	erts underroa

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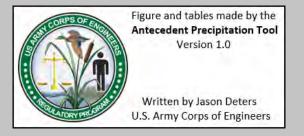
# **Appendix D**

Antecedent Precipitation Tool Output

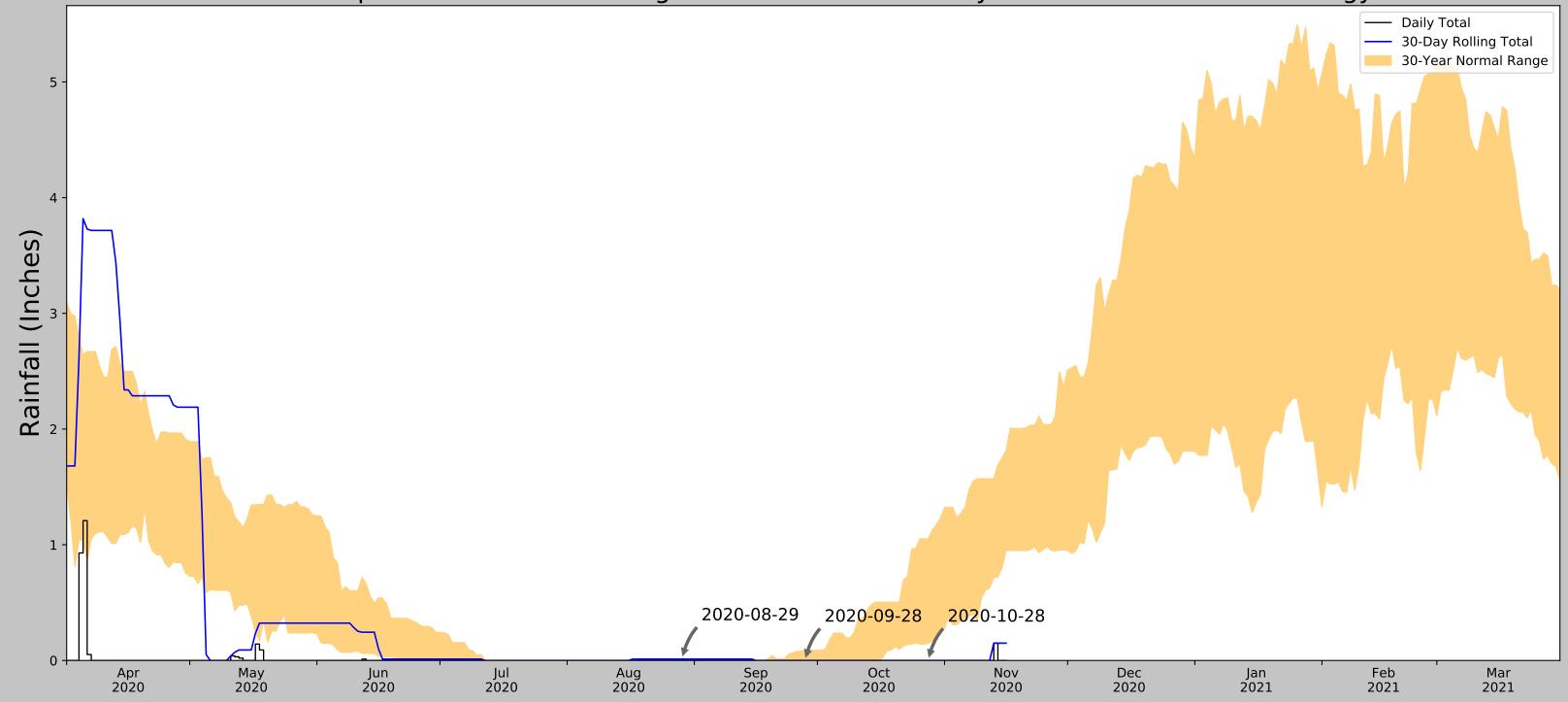


Coordinates	38.472457, -121.182621
Observation Date	2020-10-27
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-10-27	0.141732	1.051575	0.0	Dry	1	3	3
2020-09-27	0.0	0.079134	0.0	Normal	2	2	4
2020-08-28	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

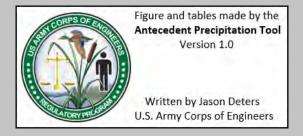


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	89
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	1

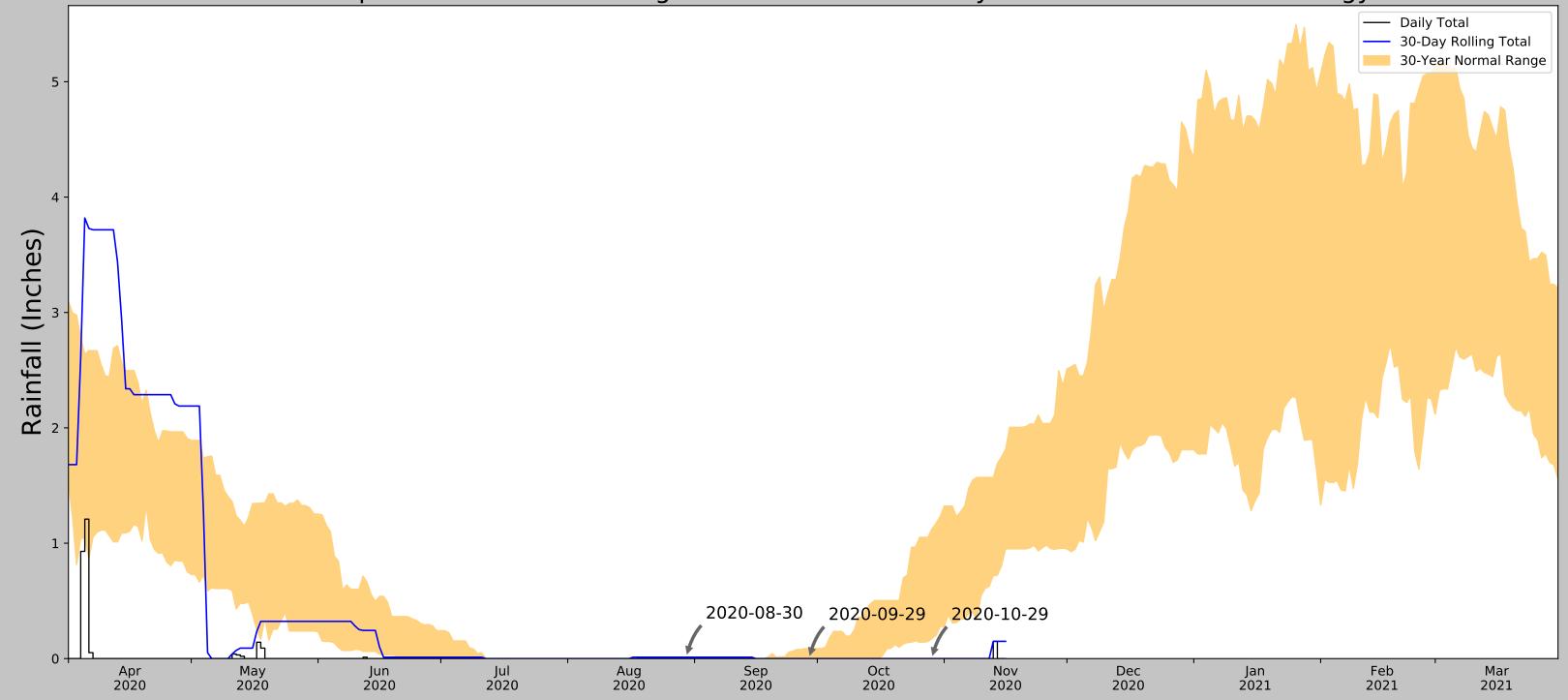


Coordinates	38.472457, -121.182621
Observation Date	2020-10-28
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-10-28	0.147244	1.051575	0.0	Dry	1	3	3
2020-09-28	0.0	0.087402	0.0	Normal	2	2	4
2020-08-29	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

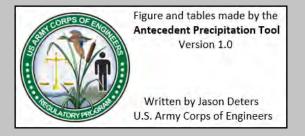


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	88
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	2

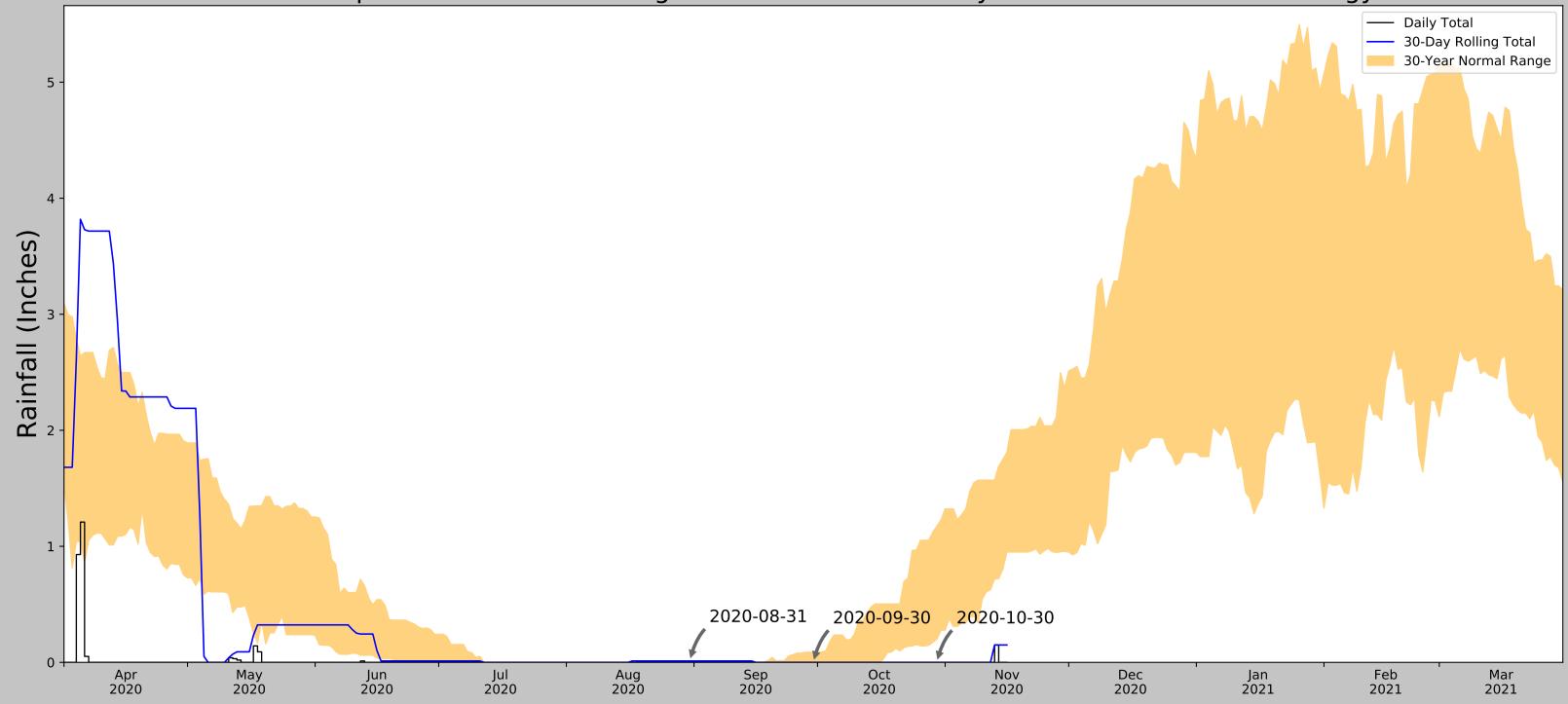


Coordinates	38.472457, -121.182621
Observation Date	2020-10-29
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-10-29	0.172441	1.123228	0.0	Dry	1	3	3
2020-09-29	0.0	0.087402	0.0	Normal	2	2	4
2020-08-30	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

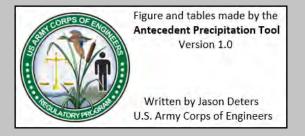


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	87
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	3

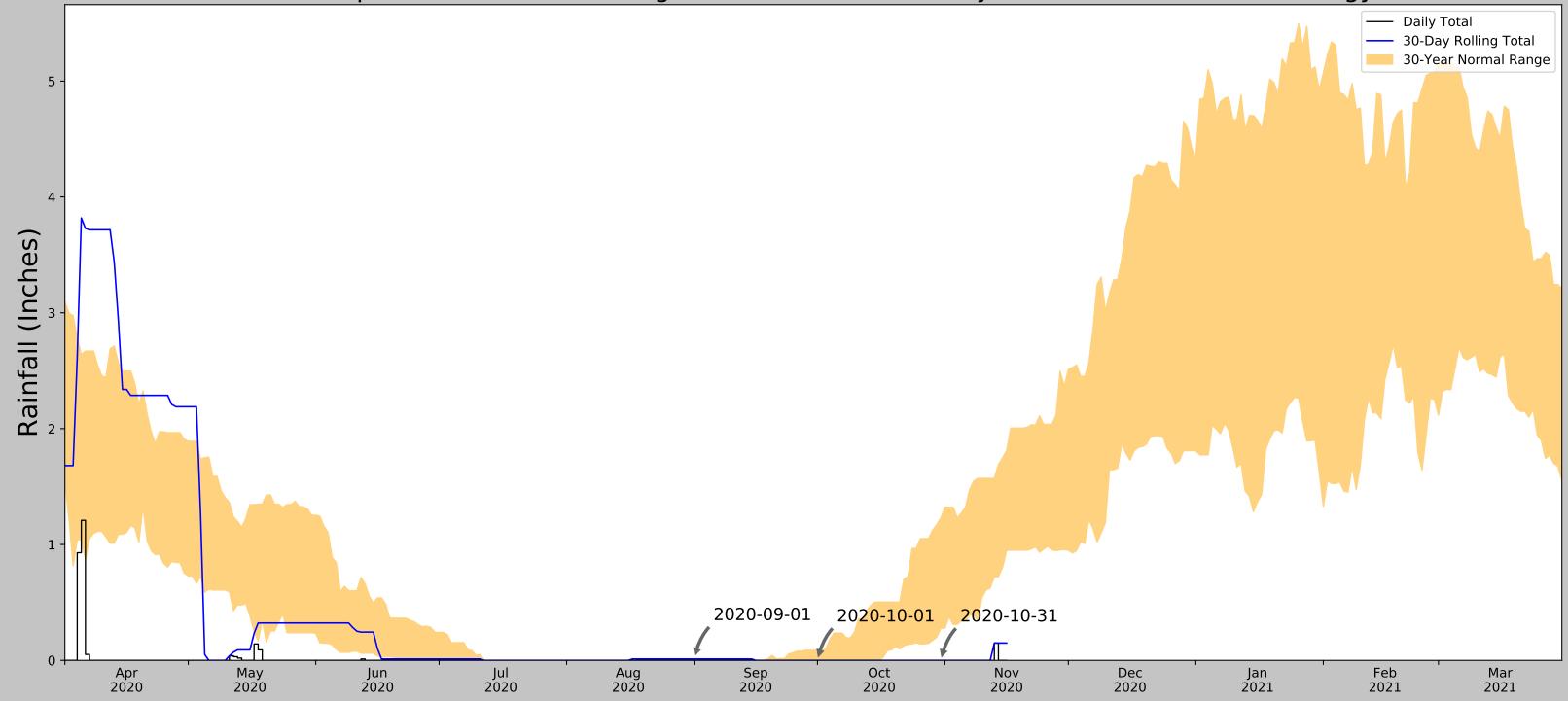


Coordinates	38.472457, -121.182621
Observation Date	2020-10-30
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-10-30	0.200394	1.172441	0.0	Dry	1	3	3
2020-09-30	0.0	0.087402	0.0	Normal	2	2	4
2020-08-31	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

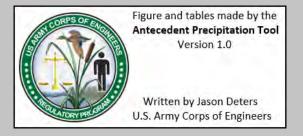


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	86
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	4

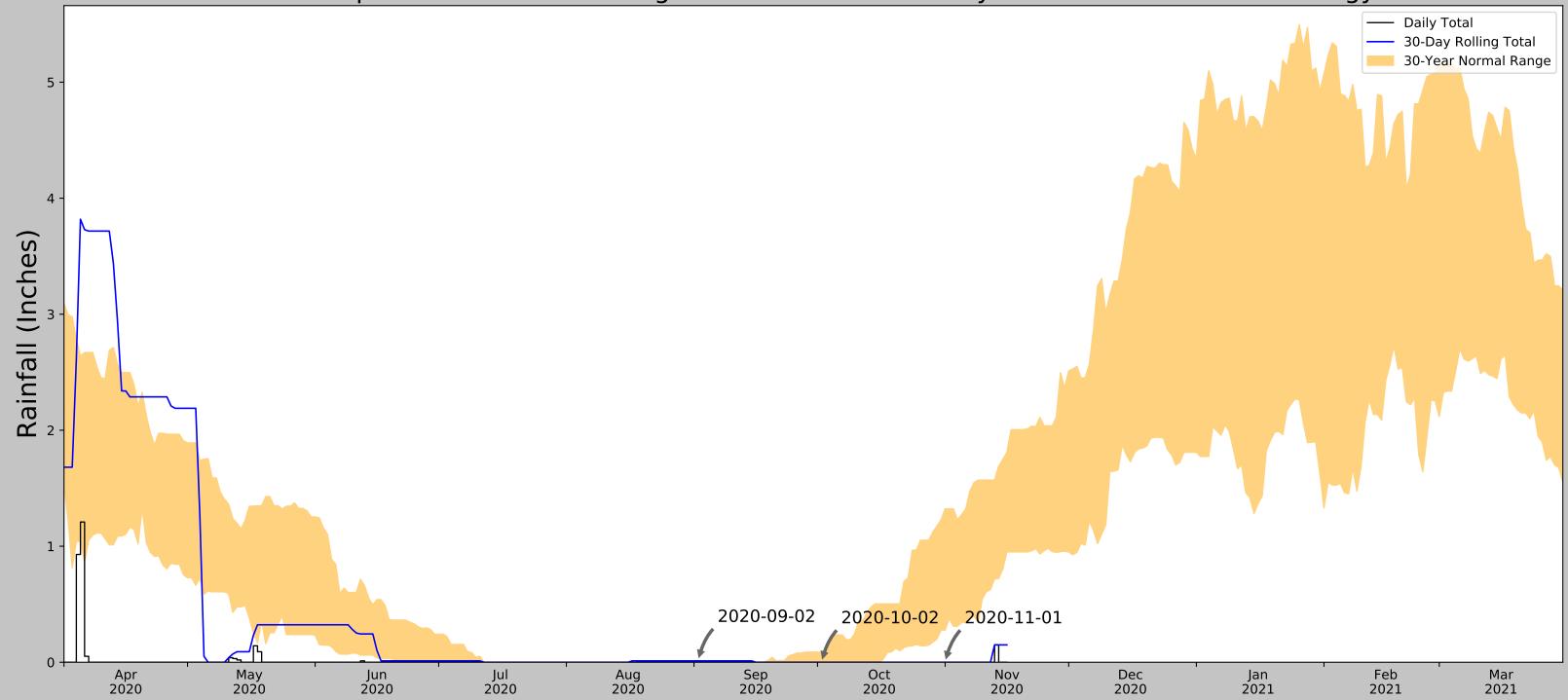


Coordinates	38.472457, -121.182621
Observation Date	2020-10-31
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-10-31	0.277165	1.229528	0.0	Dry	1	3	3
2020-10-01	0.0	0.087402	0.0	Normal	2	2	4
2020-09-01	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

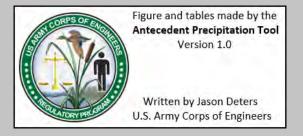


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

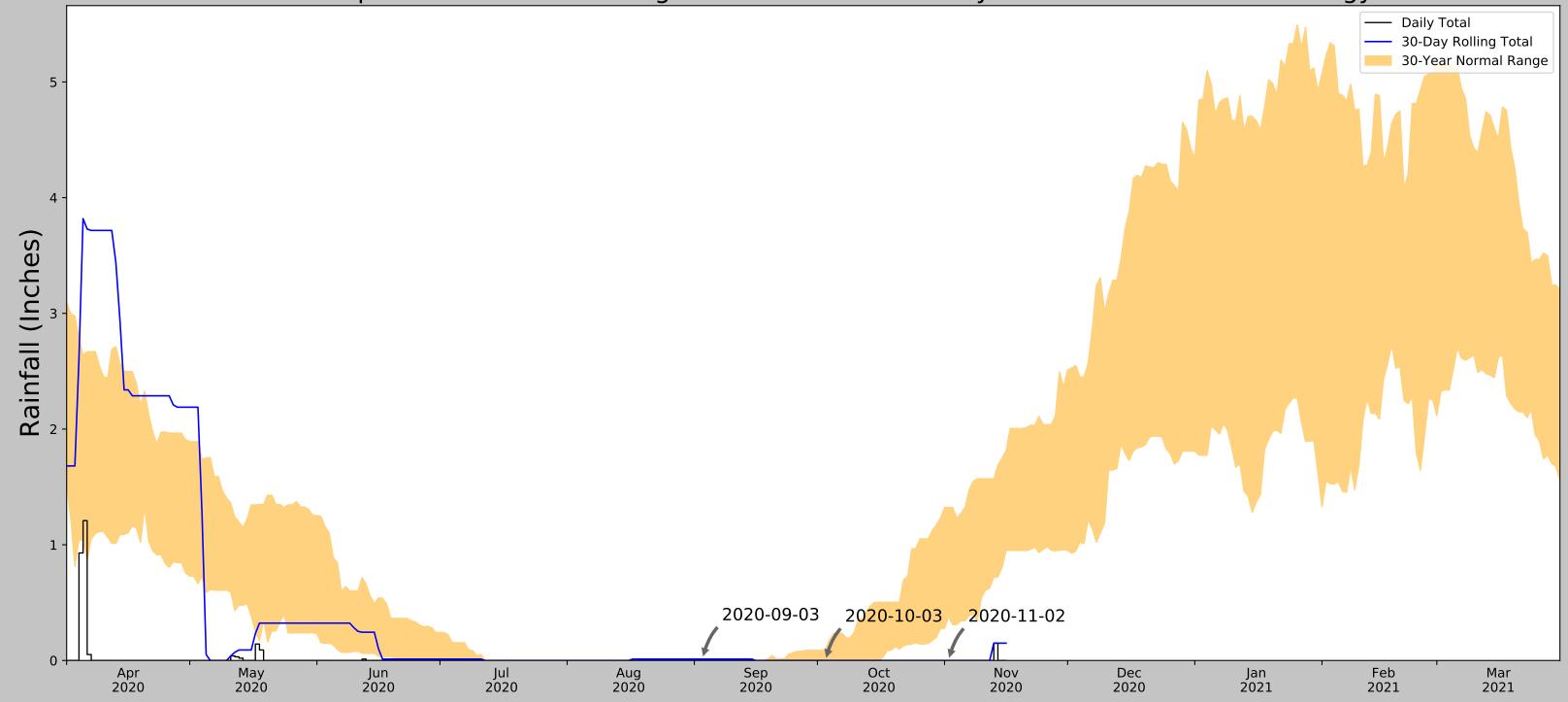


Coordinates	38.472457, -121.182621
Observation Date	2020-11-01
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-01	0.277165	1.322441	0.0	Dry	1	3	3
2020-10-02	0.0	0.087402	0.0	Normal	2	2	4
2020-09-02	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

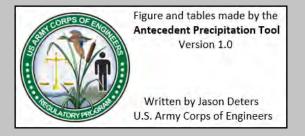


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

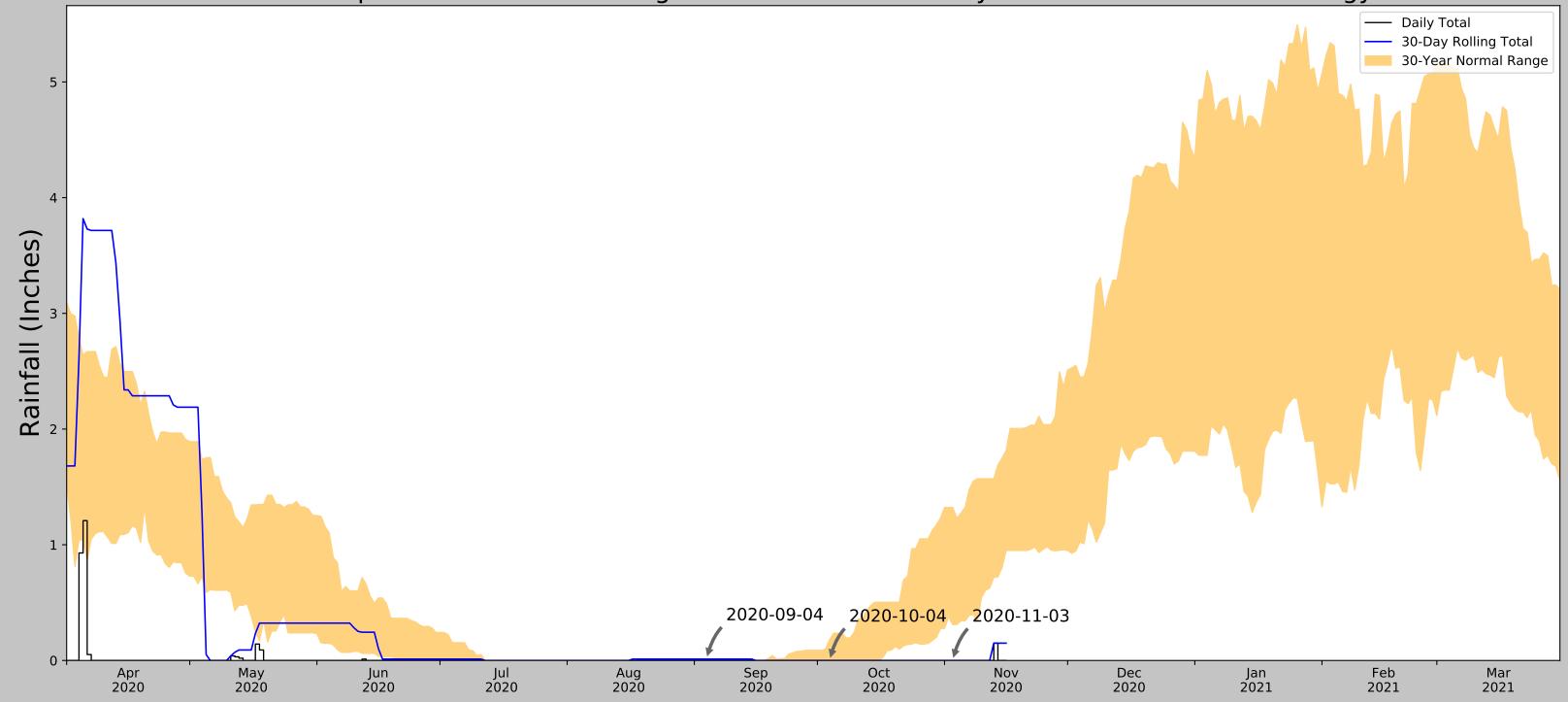


Coordinates	38.472457, -121.182621
Observation Date	2020-11-02
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-02	0.377953	1.322441	0.0	Dry	1	3	3
2020-10-03	0.0	0.098425	0.0	Normal	2	2	4
2020-09-03	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

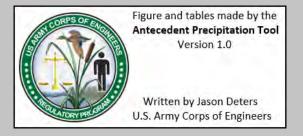


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

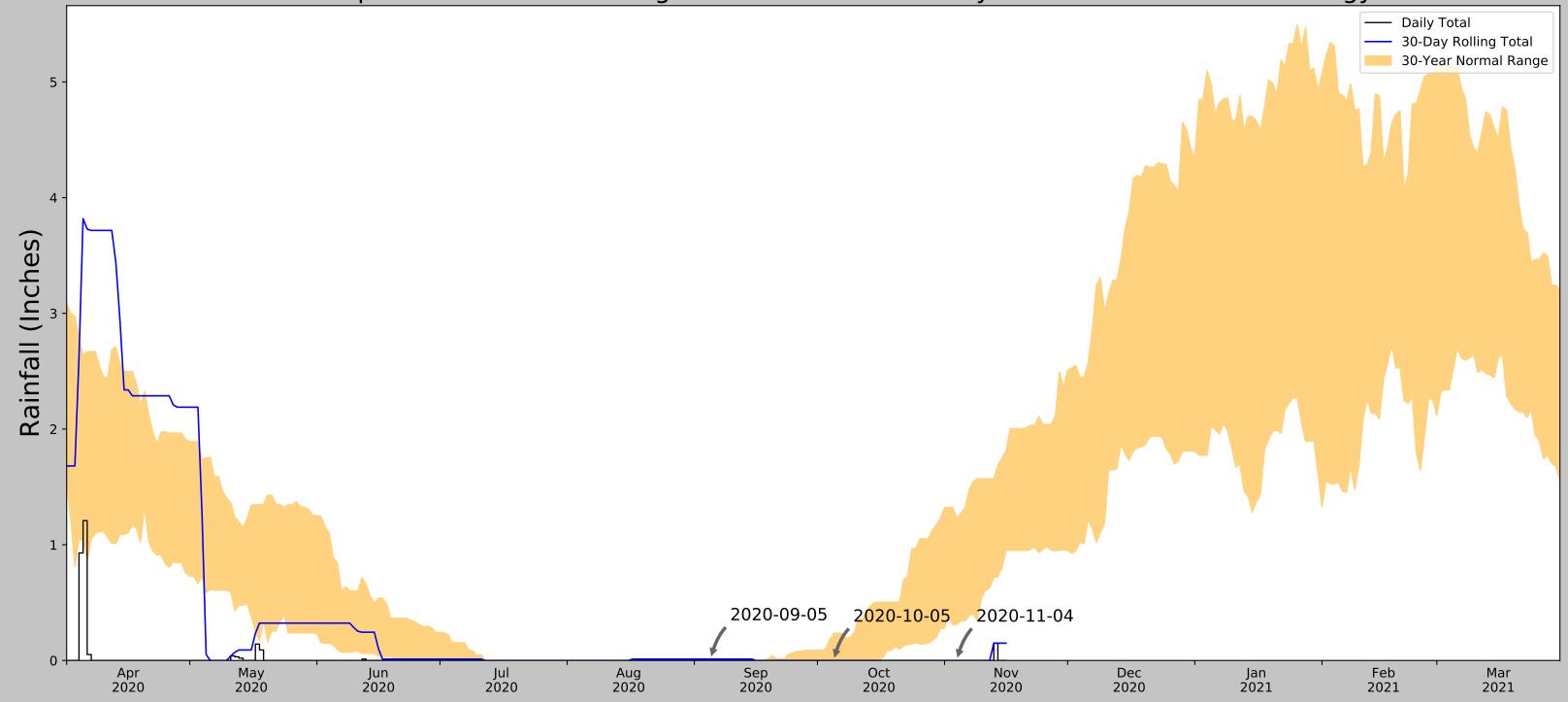


Coordinates	38.472457, -121.182621
Observation Date	2020-11-03
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-03	0.309843	1.322441	0.0	Dry	1	3	3
2020-10-04	0.0	0.180709	0.0	Normal	2	2	4
2020-09-04	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

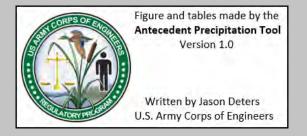


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

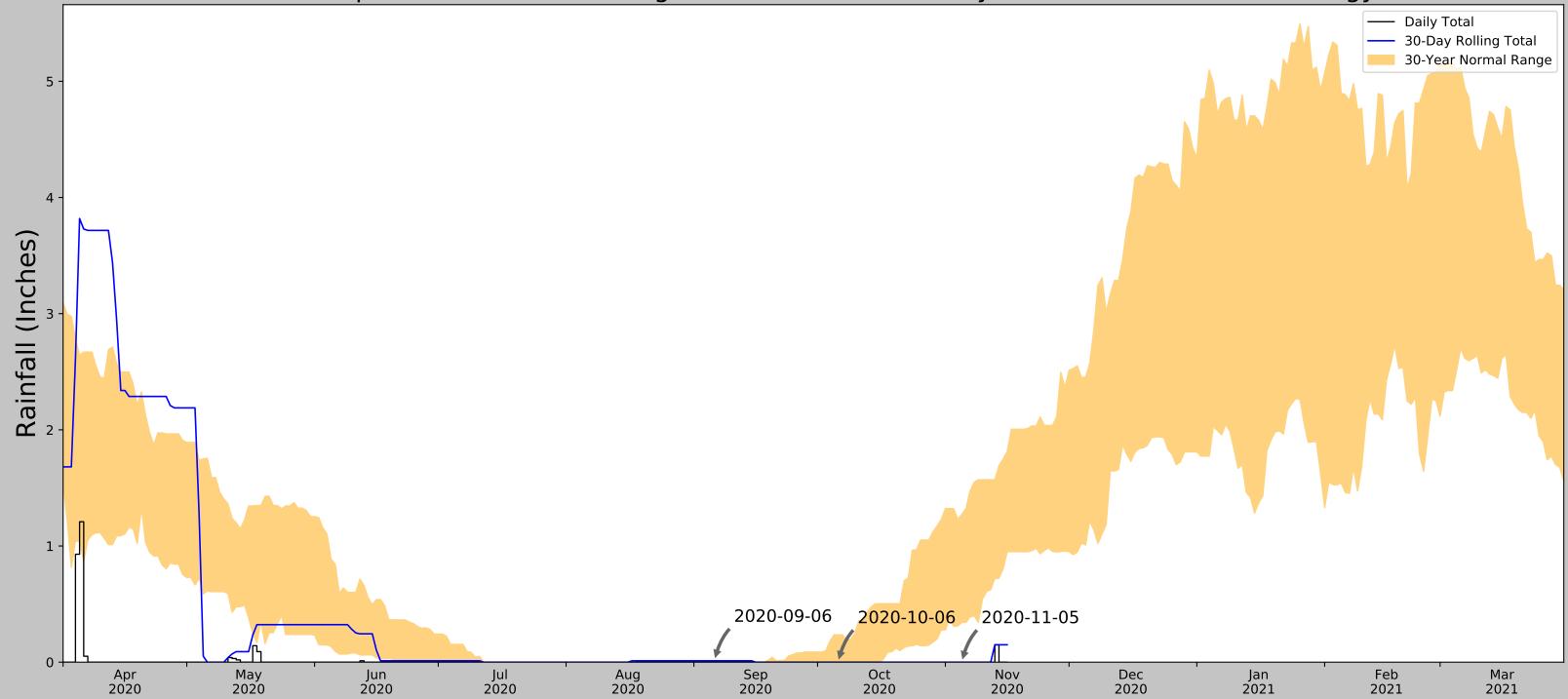


Coordinates	38.472457, -121.182621
Observation Date	2020-11-04
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-04	0.311024	1.229528	0.0	Dry	1	3	3
2020-10-05	0.0	0.235827	0.0	Normal	2	2	4
2020-09-05	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

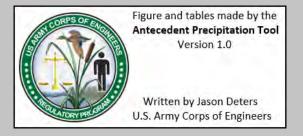


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

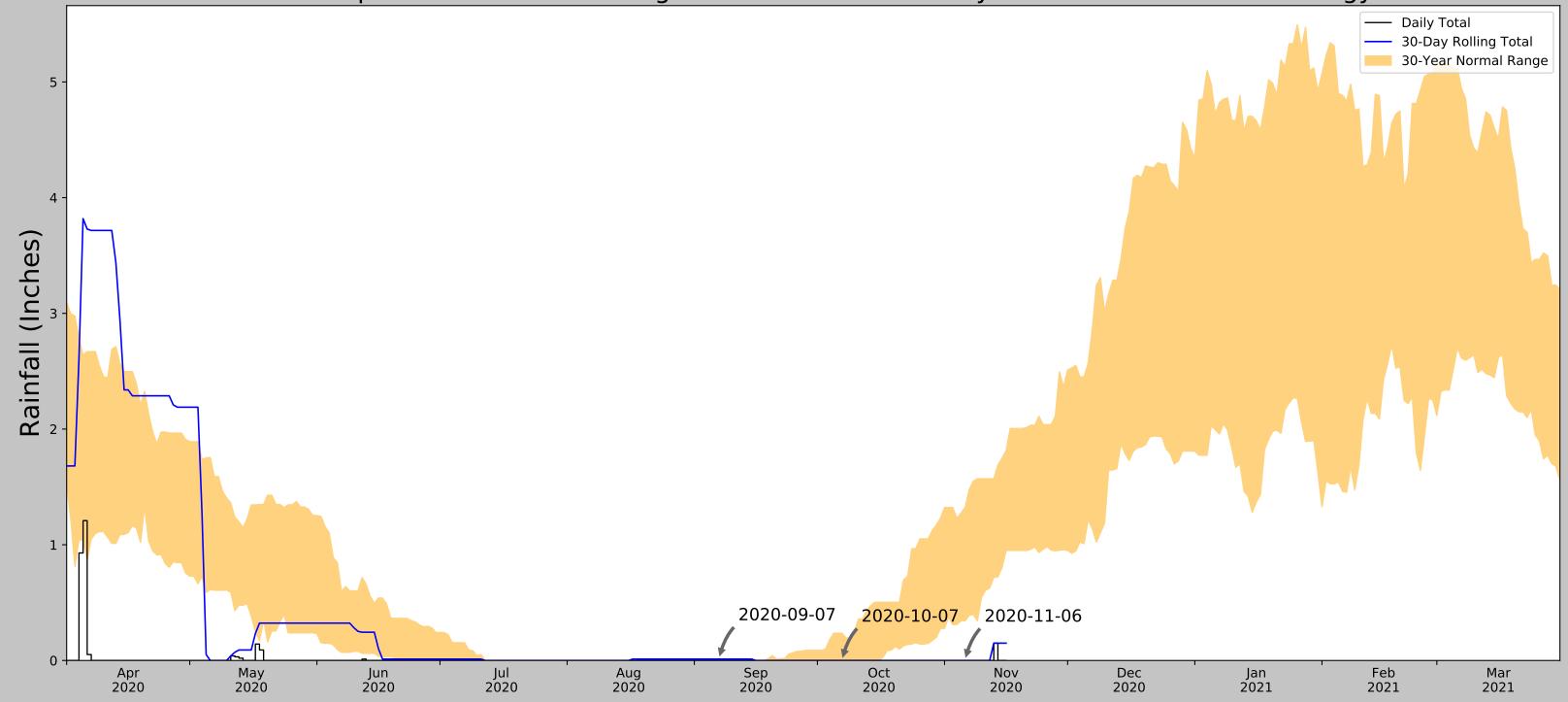


Coordinates	38.472457, -121.182621
Observation Date	2020-11-05
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-05	0.342126	1.272835	0.0	Dry	1	3	3
2020-10-06	0.0	0.235827	0.0	Normal	2	2	4
2020-09-06	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

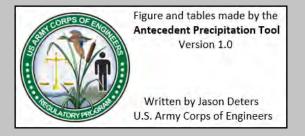


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

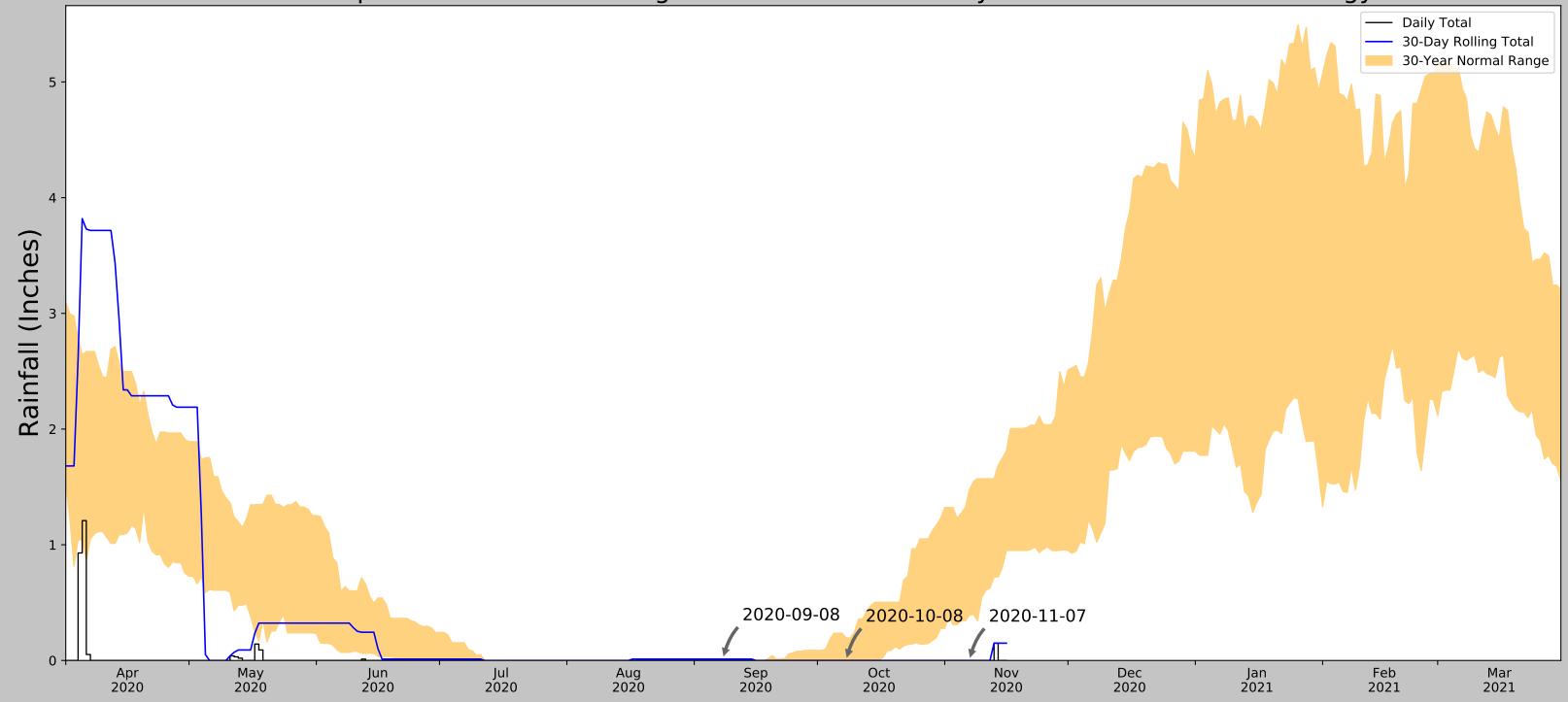


Coordinates	38.472457, -121.182621
Observation Date	2020-11-06
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-06	0.342126	1.322441	0.0	Dry	1	3	3
2020-10-07	0.0	0.235827	0.0	Normal	2	2	4
2020-09-07	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

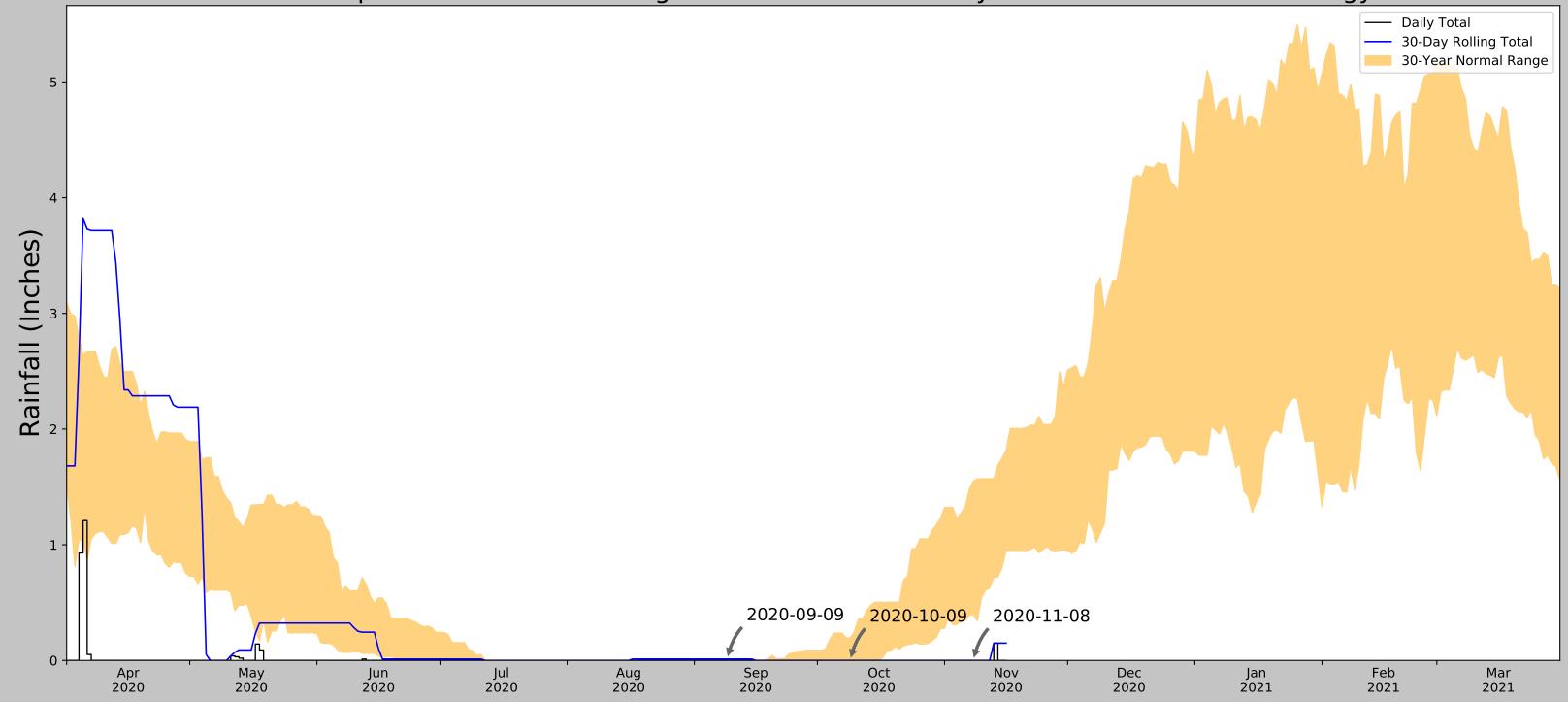


Coordinates	38.472457, -121.182621
Observation Date	2020-11-07
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-07	0.389764	1.475591	0.0	Dry	1	3	3
2020-10-08	0.0	0.194882	0.0	Normal	2	2	4
2020-09-08	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

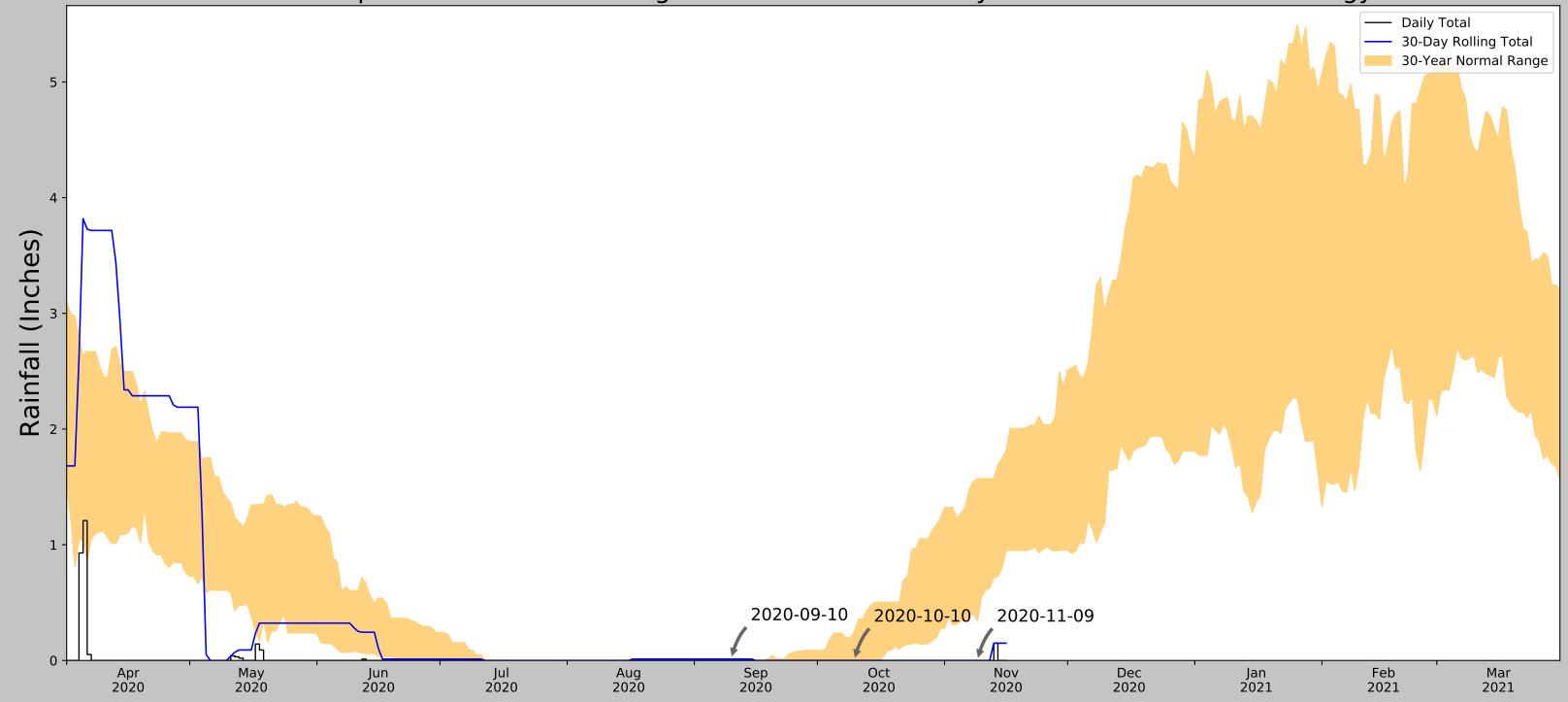


Coordinates	38.472457, -121.182621
Observation Date	2020-11-08
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-08	0.398032	1.548819	0.0	Dry	1	3	3
2020-10-09	0.0	0.194882	0.0	Normal	2	2	4
2020-09-09	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

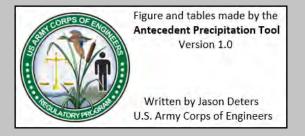


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

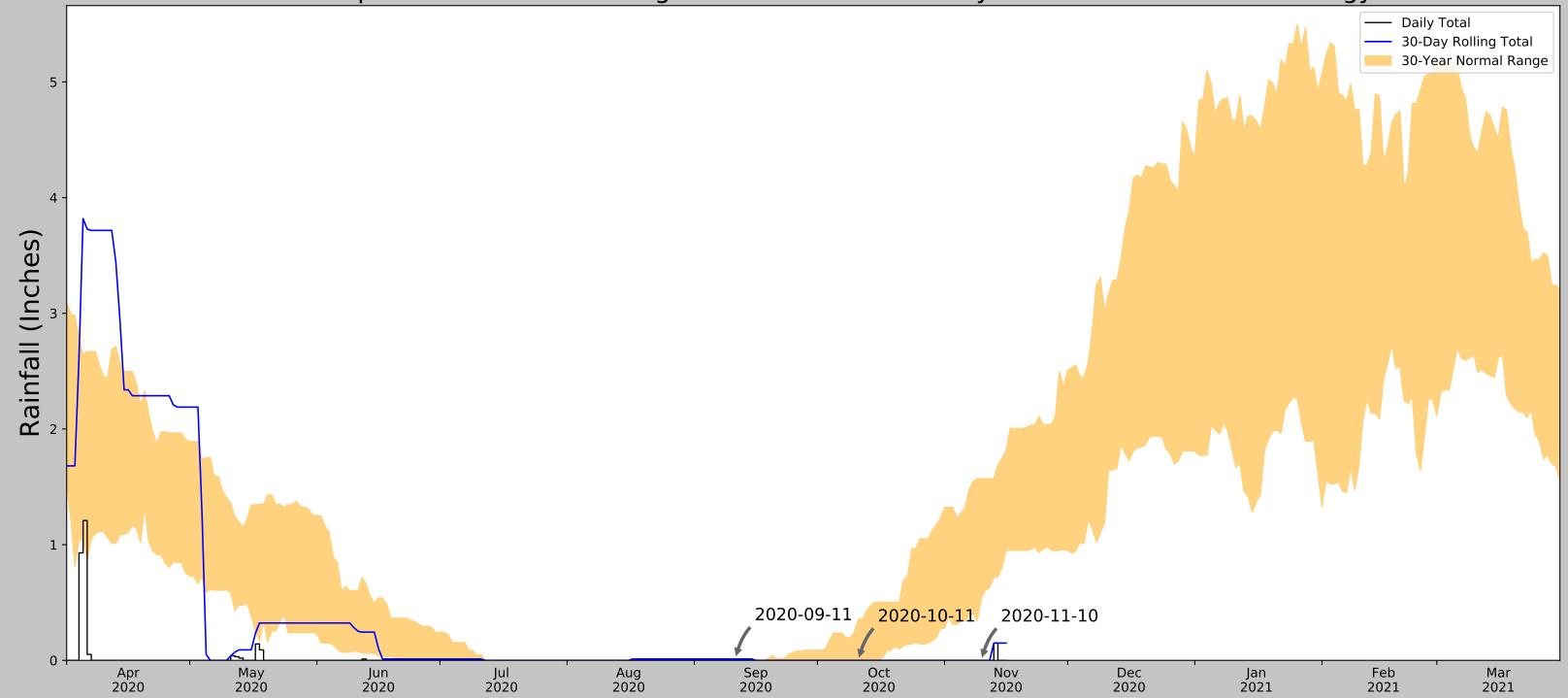


Coordinates	38.472457, -121.182621
Observation Date	2020-11-09
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-09	0.343307	1.570866	0.0	Dry	1	3	3
2020-10-10	0.0	0.245276	0.0	Normal	2	2	4
2020-09-10	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

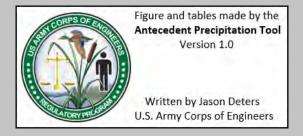


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

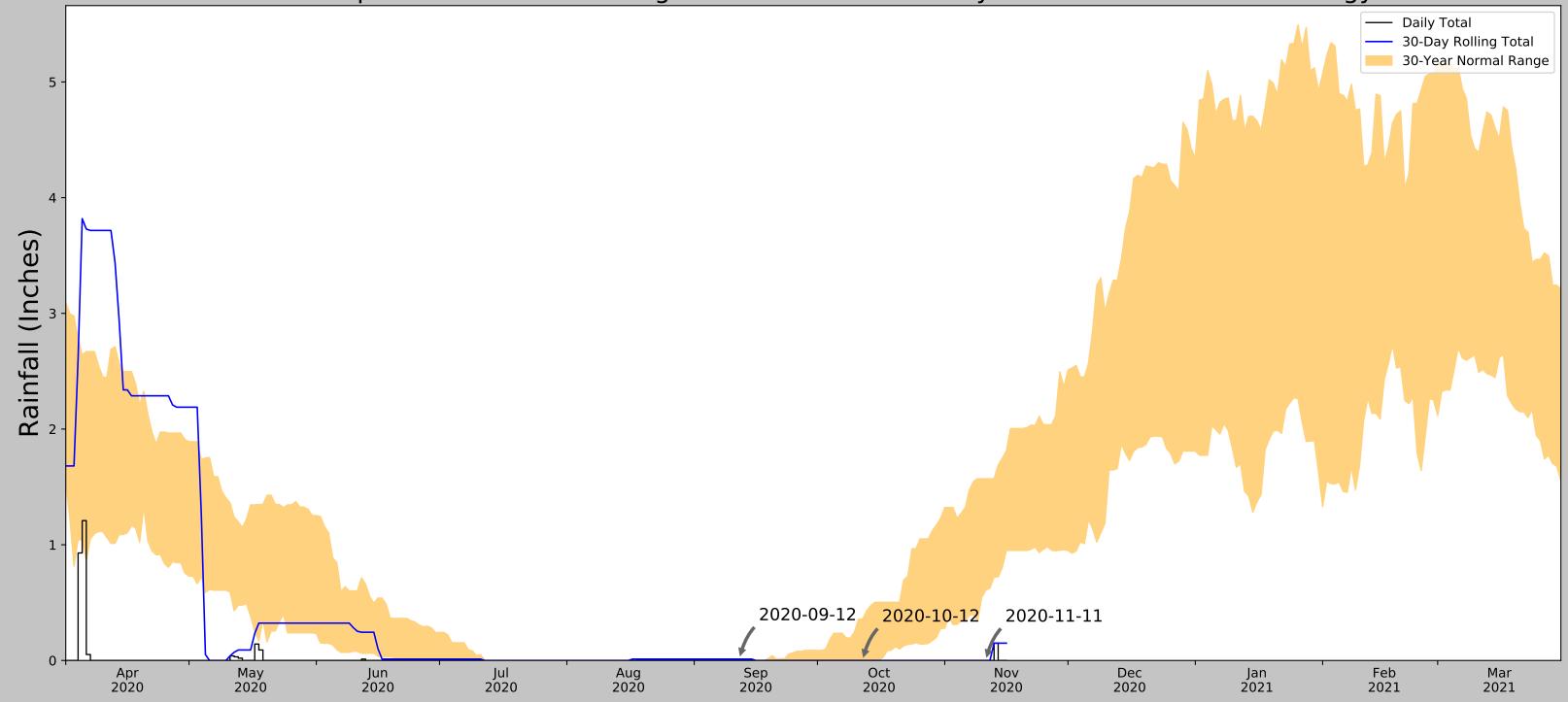


Coordinates	38.472457, -121.182621
Observation Date	2020-11-10
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-10	0.544488	1.570866	0.0	Dry	1	3	3
2020-10-11	0.0	0.357874	0.0	Normal	2	2	4
2020-09-11	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

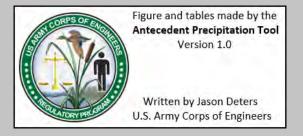


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

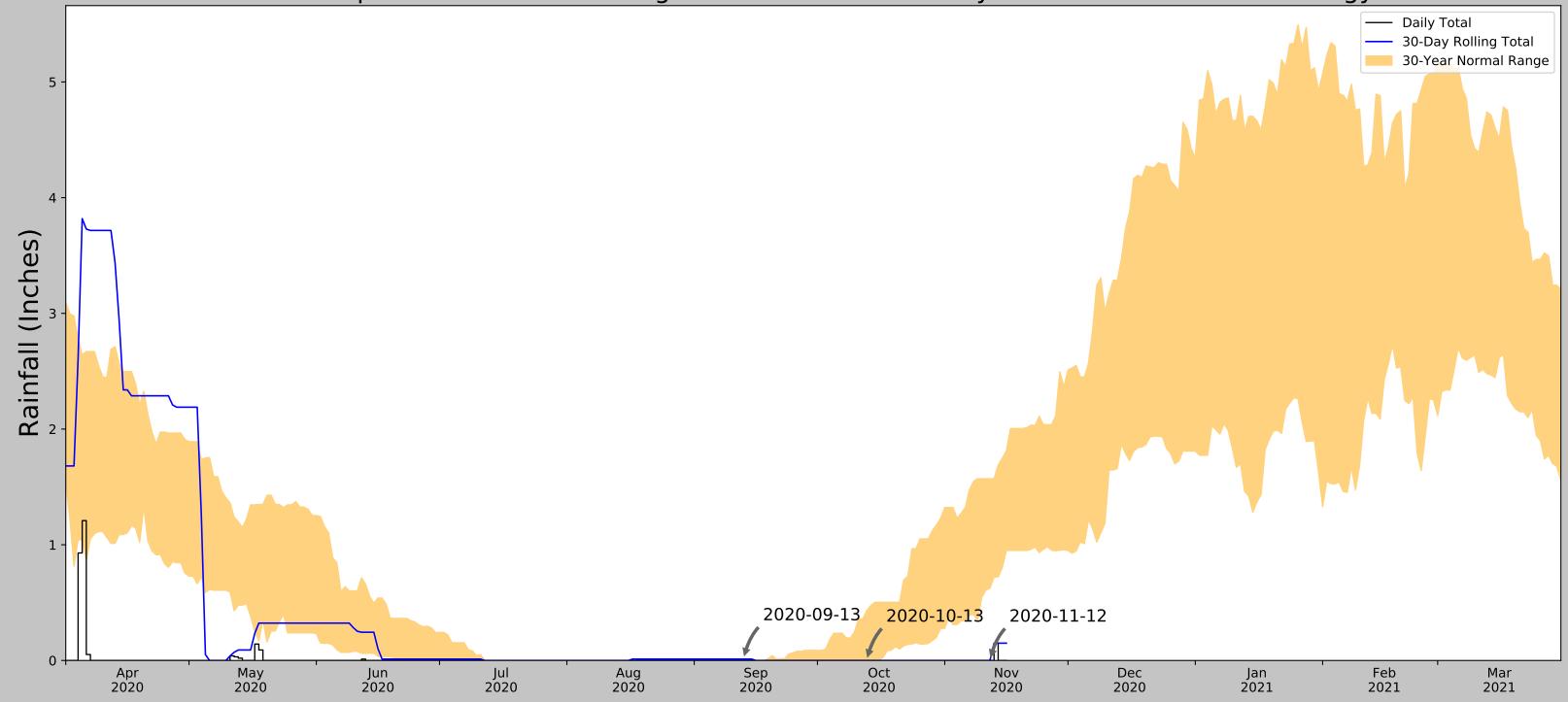


Coordinates	38.472457, -121.182621
Observation Date	2020-11-11
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-11	0.607087	1.570866	0.0	Dry	1	3	3
2020-10-12	0.0	0.357874	0.0	Normal	2	2	4
2020-09-12	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

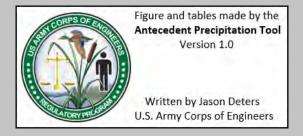


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

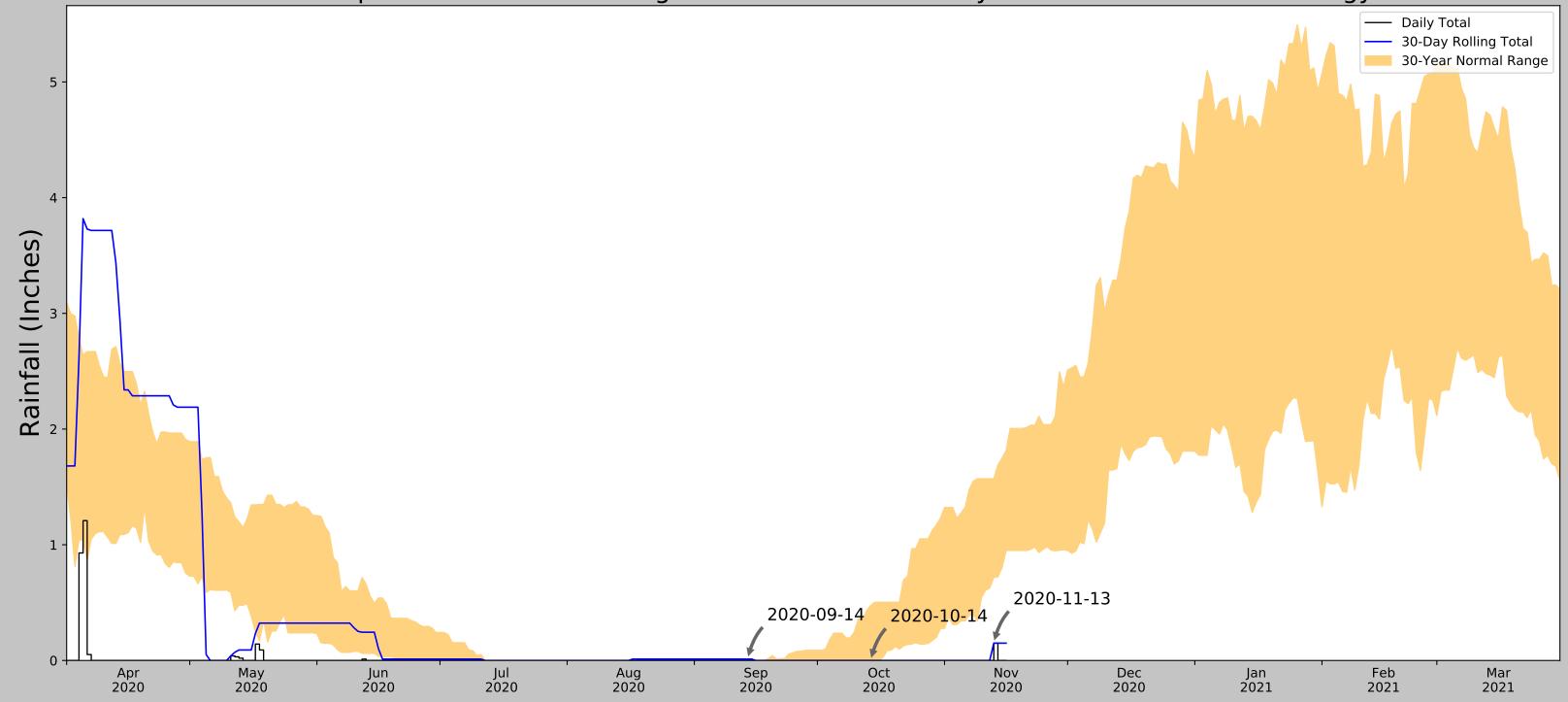


Coordinates	38.472457, -121.182621
Observation Date	2020-11-12
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-12	0.625197	1.570866	0.0	Dry	1	3	3
2020-10-13	0.0	0.429528	0.0	Normal	2	2	4
2020-09-13	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10

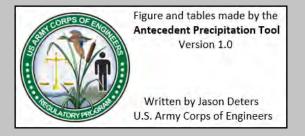


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5



Coordinates	38.472457, -121.182621
Observation Date	2020-11-13
Elevation (ft)	113.57
Drought Index (PDSI)	Moderate drought (2020-10)
WebWIMP H <sub>2</sub> O Balance	Wet Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2020-11-13	0.719685	1.570866	0.149606	Dry	1	3	3
2020-10-14	0.0	0.475984	0.0	Normal	2	2	4
2020-09-14	0.0	0.0	0.011811	Wet	3	1	3
Result							Normal Conditions - 10



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	13.908	75.512	7.309	11352	85
RANCHO CORDOVA 1.5 SE	38.5804, -121.2812	104.003	9.166	9.567	4.212	1	0
CARMICHAEL 0.9 NE	38.6429, -121.3059	129.921	13.53	16.351	6.31	0	5

# **Appendix E**

Aquatic Resources Spreadsheet

APPENDIX E-AQUATIC RESOURCES SPREADSHEET Aquatic Resouces Delineation for the Sloughhouse Solar Project

Local_Waterway										38.47373100 -121.18456800 Cosumnes River						
Local	300	300	00;	000	300	300	300	300	300	300 Cosur	300	300	300	300	300	300
Longitude	38.47373100 -121.18456800	38.47373100 -121.1845680	38.46685600 -121.1758120	38.46699800 -121.1755200	38.47373100 -121.1845680	38.47373100 -121.1845680	38.47373100 -121.1845680	38.47373100 -121.18456800	38.47373100 -121.18456800	21.184568	38.47373100 -121.18456800	8.47373100 -121.1845680	8.47373100 -121.1845680	8.47373100 -121.1845680	8.47373100 -121.1845680	8.47373100 -121.18456800
2	373100 -1	373100 -1	385600 -1	599800 -1	373100 -1	373100 -1	373100 -1	373100 -1	373100 -1	373100 -1	373100 -1	373100 -1	373100 -1	373100 -1	373100 -1	373100 -1
Latitude	38.47	38.47	38.46	38.46	38.47	38.47	38.47	38.47	38.47	38.47	38.47	38.47	38.47	38.47	38.47	38.47;
Waters_Type	ISOLATE	RPW	UPLAND	UPLAND	UPLAND	ISOLATE	RPW	ISOLATE	MWN_	NN⊢	ISOLATE	RPWWD	UPLAND	UPLAND	ISOLATE	RPWWD
Units	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE
Amount	0.2384 ACR	1.537 /	0.701 ACRE	0.152 /	1.111 ACRE	0.018 ACRE	2.364 ACRE	0.6475 ACRE	16.36 ACRE	24.09 ACRE	11.34 ACRE	2.816 ACRE	2.148	0.6281 ACRE	6.249	0.0482
/leas_Type																
Meas	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
HGM_Code						DEPRESS		DEPRESS	DEPRESS	RIVERINE	DEPRESS	DEPRESS			DEPRESS	DEPRESS
rdin_Code																
Cowardir	R5	R5	R5	R5	R6	PEM	<b>R</b>	PEM	PEM	83	PEM	PEM	R6	⊃	PEM	PEM
	CALIFORNIA	SALIFORNIA	ORNIA	ORNIA	CALIFORNIA	ORNIA	ORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	ORNIA	ORNIA	CALIFORNIA	ORNIA	CALIFORNIA	SALIFORNIA
State	CALIF	CALIF	CALIF	CALIF	CALIF	CALIF	CALIF	CALIF	CALIF	CALIF	38-5 CALIF	CALIF	CALIF	CALIF	CALIF	CALIF
											-36, and -3	7	15			
e e					th ED-05			72			gh -28, -32	-31, and -3	ugh SWS-	h US-08	th VP-16	
/aters_Name	- O	.02	.03	<b>6</b>	ED-01 through ED-05	-EW-01	ID-01	01 and P-(	03	PD-01	3W-01 through -28, -32-36, and -38-5 CALIFORNIA	W-29, -30, -31, and -37	WS-01 through SWS-15	JS-01 through US-08	/P-01 through VP-16	/P-17
>	△	△	△	△	Щ	Ŧ	₽	4	4	P	S	S	S	ĭ	>	>