Appendix E4 Wetland Delineation Report

# JURISDICTIONAL DELINEATION REPORT

Janus Solar Project Colusa County, California



February 11, 2021



**RWE Solar Development, LLC** 

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## **ACRONYMS/ABBREVIATIONS**

BESS	battery energy storage system
CDFW	California Department of Fish and Wildlife
CFR	Code of Federal Regulations
EPA	Environmental Protection Agency
FAC	Facultative
FACU	Facultative Upland
FACW	Facultative Wetland
GPS	Global Positioning System
NL	non listed
NRCS	National Resources Conservation Service
NWI	National Wetlands Inventory
OBL	Obligate Wetland
OHWM	ordinary high water mark
Project	Janus Solar Project
RWE	RWE Solar Development, LLC
RWQCB	Regional Water Quality Control Board
SWRCB	State Water Resources Control Board
Tetra Tech	Tetra Tech, Inc.
trans	transition sampling point
up	upland sampling point
UPL	Upland
U.S.	United States
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WDRs	waste discharge requirements
wet	potential wetland area sampling point

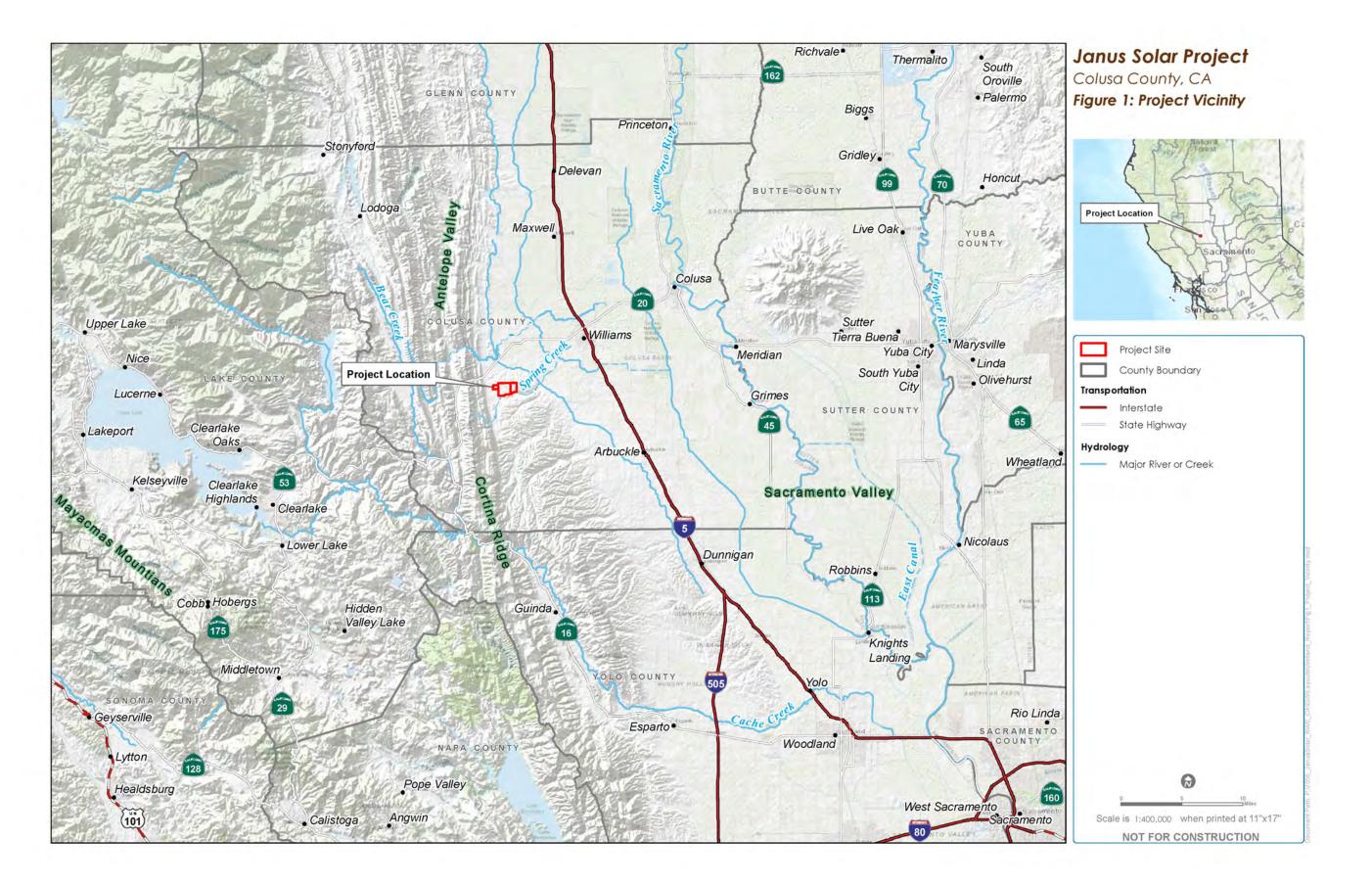
## 1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) prepared this jurisdictional delineation report for the proposed Janus Solar Project (Project). RWE Solar Development, LLC (RWE) proposes to develop approximately 986 acres of land (on three parcels that total 1,023.9 acres) located in Colusa County, California for the development of a solar energy facility (Figure 1).

The Project consists of constructing and operating a photovoltaic solar electricity generating facility, battery energy storage system (BESS), and associated infrastructure on privately-owned grazing and agricultural land. The Project would include the construction of a gen-tie to Cortina substation, an electrical substation, a BESS, and solar panel arrays. Project design details and components may be modified during finalization of the site plan.

Tetra Tech conducted a literature review and a jurisdictional delineation of the Project site. Biologists conducted the jurisdictional delineation in 2021 on any potential jurisdictional wetlands and waters of the United States (U.S.). Standing water, drainages, potential wetlands, and riparian areas that were found during the habitat characterization within the Project site in 2019 were evaluated (Tetra Tech 2020). The purpose of this jurisdictional delineation report is to:

- Summarize the methods and results of the delineation.
- Indicate jurisdictional areas covered under the U.S. Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), and Regional Water Quality Control Board (RWQCB) criteria.



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## 2.0 ENVIRONMENTAL SETTING

The Project site is located on privately-owned grazing and agricultural land in a rural area of Colusa County, California. The Project site is within the Colusa Basin Watershed in the Sacramento Valley, which drains into the Sacramento River at Knights Landing via the Colusa Basin Drain (Colusa County Resource Conservation District 2012). Spring Creek occurs adjacent to the Project site to the south and Salt Creek occurs approximately 1 mile north of the site. Both of these creeks converge and ultimately drain into the Colusa Basin Drain over 10 miles northeast of the Project site. Surface water connectivity on the Project site has been significantly disturbed by grazing and agricultural activities. The Project site is predominantly flat with low-slope rolling hills and the elevation range is approximately 44 to 101 meters. The Project site currently supports cattle grazing and grain cultivation. Vegetation on the Project site includes non-native grassland, cultivated grain fields, low growing herbaceous plants, and disturbed riparian areas and drainages with sparse native and non-native trees.

## 3.0 REGULATORY OVERVIEW AND DEFINITIONS

### 3.1 U.S. ARMY CORPS OF ENGINEERS

Section 404 of the Clean Water Act provides the U.S. Environmental Protection Agency (EPA) and the USACE regulatory and permitting authority over activities that result in the discharge of dredged or fill material into "navigable Waters of the U.S." Section 502(7) of the Clean Water Act defines navigable waters as "Waters of the U.S., including territorial seas." Section 328 of Chapter 33 in the Code of Federal Regulations (CFR) defines the term Waters of the U.S. as it applies to the jurisdictional limits of the authority of the USACE under the Clean Water Act. A summary of this definition of Waters of the U.S. in 33 CFR Section 328.3 includes (1) waters which are currently used, or were used in the past for commerce, or may be susceptible to use in interstate or foreign commerce, including all waters subject to tides; (2) interstate waters and wetlands; (3) Waters of the U.S. such as intrastate lakes, rivers, streams, and wetlands; (4) impoundments of waters; (5) tributaries of waters; (6) territorial seas; and (7) wetlands adjacent to waters (Federal Register 1986). Therefore, for the purpose of determining USACE jurisdiction under the Clean Water Act, "navigable waters" as defined in the Clean Water Act are the same as Waters of the U.S. defined in the CFR above. Waters of the U.S. have been most recently defined in the 2020 Navigable Waters Protection Rule, as described in Section 3.1.2 below.

The limits of USACE jurisdiction under Section 404 as defined in 33 CFR Section 328.4 are as follows: (a) Territorial seas: three nautical miles in a seaward direction from the baseline; (b) Tidal waters of the U.S.: high tide line or to the limit of adjacent non-tidal waters; (c) Non-tidal waters of the U.S.: ordinary high water mark (OHWM) or to the limit of adjacent wetlands; (d) Wetlands: to the limit of the wetland.

#### 3.1.1 Section 404 Jurisdictional Wetlands

The USACE has defined the term "wetlands" as follows (33 CFR 328.3):

Those areas that are inundated or saturated by surface or ground water 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. Wetlands generally include swamps, marshes, bogs, and similar areas.

The three parameters that are used to determine the presence of wetlands are: (1) hydrophytic vegetation, (2) wetland hydrology, and (3) hydric soils. Evidence of a minimum of one positive wetland indicator from each of the three parameters must be found in order to make a positive wetland delineation (USACE 2008).

### 3.1.1.1 Vegetation

Hydrophytic vegetation is defined as areas where the frequency and duration of inundation or soil saturation exerts a controlling influence on the plant species present. Plant species are assigned wetland indicator status according to the probability of their occurrence in a wetland. More than fifty percent of the dominant plant species must have a wetland indicator status to meet the hydrophytic vegetation criterion. The USACE has published the *Arid West 2016 Regional Wetland Plant List* (2016) which separates vascular plants into the following categories based on plant species frequency of occurrence in wetlands:

- Obligate Wetland (OBL). Occur almost always (estimated probability >99%) under natural conditions in wetlands.
- Facultative Wetland (FACW). Usually occur in wetlands (estimated probability 67-99%), but occasionally found in non-wetlands.

- Facultative (FAC). Equally likely to occur in wetlands or non-wetlands (estimated probability 34-66%).
- Facultative Upland (FACU). Usually occur in non-wetlands (estimated probability 67-99%), but occasionally found in wetlands (estimated probability 1-33%).
- Obligate Upland (UPL). Occur almost always (estimated probability greater than 99%) under natural conditions in non-wetlands.

The USACE considers OBL, FACW, and FAC species to be indicators of a wetland. An area is considered to have hydrophytic vegetation when greater than 50 percent of the dominant species in each vegetative stratum (tree, shrub, and herb) fall within these categories. Any species not listed (NL) in the USACE wetland plant list is assumed to be an upland species, almost never occurring in wetlands.

A secondary hydrophytic vegetation identifier is a prevalence index of 3.0 or less. The prevalence index is a weighted-average wetland indicator status of all plant species at the sample point, where each indicator status category is given a numeric code (OBL=1, FACW=2, FAC=3, FACU=4, and UPL=5) and weighting is by abundance (percent cover). This method is a more comprehensive analysis of the hydrophytic status of the community than one based on just a few dominant species. The prevalence index is used as a supplement to determine whether hydrophytic vegetation is present on sites where indicators of hydric soil and wetland hydrology are present, but the vegetation initially fails the dominance test.

#### 3.1.1.2 Hydrology

Wetland hydrology is inundation or soil saturation with a frequency and duration long enough to cause the development of hydric soils and plant communities dominated by hydrophytic vegetation. If direct observation of wetland hydrology is not possible (as in seasonal wetlands), or records of wetland hydrology are not available (such as stream gauges), assessment of wetland hydrology is frequently supported by indicators, such as watermarks, surface soil cracks, sediment deposits, or a high water table.

OHWM is a 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 area.

#### 3.1.1.3 Soils

Hydric soils are saturated or inundated for a sufficient duration during the growing season to develop anaerobic or reducing conditions that favor the growth and regeneration of hydrophytic vegetation. Field indicators of wetland soils include sulfidic odor, observations of ponding, inundation or saturation, dark (low chroma) soil colors, bright mottles (concentrations of oxidized minerals such as iron), or gleying, which indicates reducing conditions by a blue-grey color. Additional supporting information includes documentation of soil as hydric or reference to wet conditions in the local soil survey, both of which must be verified in the field.

Field indicators for hydric soils are particularly difficult to observe in sandy soils, which are often recently deposited soils of floodplains. These soils usually lack sufficient fines (clay and silt) and organic material to allow use of color as a reliable indicator of hydric soil. Hydric soil indicators in sandy soils include accumulations of organic matter, and organic pan.

#### 3.1.2 Section 404 Jurisdictional Waters of the U.S.

In October 2019, the EPA and the Department of the Army published a final rule to repeal the 2015 Clean Water Rule and restore the regulatory text that existed prior to the Clean Water Rule, which became



effective on December 23, 2019. In April 2020, the EPA and the Department of the Army published the Navigable Waters Protection Rule in the Federal Register to finalize a revised definition of Waters of the U.S. under the Clean Water Act, which became effective on June 22, 2020. The Navigable Waters Protection Rule regulates navigable waters and the core tributary systems that provide perennial or intermittent flow into them. In accordance with the 2020 Navigable Waters Protection Rule, four categories of jurisdictional waters are considered Waters of the U.S. and are federally regulated:

- The territorial seas and traditional navigable waters.
  - Includes large rivers and lakes and tidally-influenced waterbodies used in interstate or foreign commerce.
- Perennial and intermittent tributaries to those waters.
  - Must contribute surface flow to navigable waters in a typical year (excludes ephemeral streams that have surface flow only after a precipitation event).
- Certain lakes, ponds, and impoundments.
  - Must contribute surface flow to navigable waters in a typical year.
- Wetlands physically or hydrologically adjacent to jurisdictional waters.

USACE jurisdiction of Waters of the U.S. in non-tidal areas extends to the OHWM, as defined above.

#### 3.1.3 Areas Exempt from Section 404 Jurisdiction

The 2020 Navigable Waters Protection Rule details 12 categories of exclusions (i.e., features that are not Waters of the U.S.), such as features that only contain water in direct response to rainfall (e.g., ephemeral features), groundwater, many ditches, prior converted cropland, and waste treatment systems. The final rule also clarifies key elements related to the scope of Federal Clean Water Act jurisdiction, including:

- Providing clarity and consistency by removing the proposed separate categories for jurisdictional ditches and impoundments.
- Refining the proposed definition of "typical year," which provides important regional and temporal flexibility and ensures jurisdiction is being accurately determined in times that are not too wet and not too dry.
- Defining "adjacent wetlands" as wetlands that are meaningfully connected to other jurisdictional waters, for example, by directly abutting or having regular surface water communication with jurisdictional waters.

### 3.2 REGIONAL WATER QUALITY CONTROL BOARD

The Dickey Water Pollution Act of 1949 and Porter-Cologne Water Quality Control Act of 1969 (Porter-Cologne) established the State Water Resources Control Board (SWRCB) and nine Regional Water Quality Control Boards (RWQCBs) in California. The SWRCB and each RWQCB regulate activities in Waters of the State which include Waters of the U.S. "Waters of the State" are defined by the Porter-Cologne Act as "any surface water or groundwater, including saline waters, within the boundaries of the state."

The SWRCB/RWQCB regulates the "discharge of waste," including discharges of fill and dredged material, into Waters of the State. All parties proposing to discharge waste that could affect Waters of the State must file a report of waste discharge with the appropriate RWQCB. The RWQCB will then respond to the report of waste discharge by issuing waste discharge requirements (WDRs) in a public hearing, or by waiving WDRs (with or without conditions) for that proposed discharge.

Pursuant to Section 401 of the Clean Water Act, the SWRCB/RWQCB established the State Water Quality Certification Program. This program issues certifications for projects which propose to discharge fill or dredged material into Waters of the State. Water Quality Certification is necessary for all projects that require a USACE Section 404 permit, or fall under other federal jurisdiction, and have the potential to impact Waters of the State. A Water Quality Certification issued by the SWRCB/RWQCB certifies that project activities will not violate water quality standards individually or cumulatively over the term of the action. A Water Quality Certification must be consistent with the requirements of the Federal Clean Water Act, the California Environmental Quality Act, the California Endangered Species Act, and the Porter-Cologne Act.

If a proposed project or portion of a proposed project does not require a federal permit, but does involve dredge or fill activities that may result in a discharge to Waters of the State, the RWQCB has the option to regulate the dredge and fill activity under its state authority in the form of WDRs or Certification of WDRs. In these cases, a Water Quality Certification is not necessary under Section 401 of the Clean Water Act because federal jurisdiction does not apply.

The SWRCB has adopted the *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (Procedures), which became effective on May 28, 2020 (SWRCB 2019). The Procedures consist of the following four components: (1) a statewide wetland definition; (2) a framework for determining if a feature that meets the wetland definition is a Water of the State; (3) wetland delineation procedures; and (4) supplemental procedures for application submittal, and the review and approval of Water Quality Certifications, WDRs, and waivers of WDRs for dredge or fill activities, including the *State Supplemental Dredge or Fill Guidelines* (Appendix A of the Procedures). The Procedures define an area as a wetland as follows: an area is a wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation. This definition does not affect the meaning of Waters of the State as it pertains to SWRCB/RWQCB jurisdiction pursuant to the Porter-Cologne Act, nor does it modify the current authorities of the SWRCB/RWQCB to protect water quality.

### 3.2.1 Waters of the State

The SWRCB Procedures consider natural wetlands, wetlands created by modification of surface Waters of the State, and areas that meet the current or historic definitions of Waters of the U.S., to be Waters of the State (SWRCB 2019). In addition, the Procedures considers artificial wetlands (i.e., wetlands that result from human activity) that meet specific criteria to be Waters of the State (SWRCB 2019). The Procedures incorporate the established wetland delineation procedures set forth by the USACE (USACE 2008). However, contrary to the USACE wetland definition, the State's wetland delineation also protects non-vegetated wetlands. The methods used to determine potential Waters of the State were the same as those described above for potential Section 404 jurisdiction.

### 3.2.2 Areas Exempt from State Jurisdiction

Unlike federal regulations, dredging, filling, or excavation within isolated wetlands and Waters of the U.S. constitutes a discharge to Waters of the State, and prospective discharges are required to submit a report of waste discharge to the RWQCB to comply with requirements of the Porter-Cologne Act. The wetland delineation method outlined by the USACE (USACE 2008) has been utilized to map wetlands subject to SWRCB and RWQCB jurisdiction.

Areas exempt from SWRCB/RWQCB jurisdiction include all artificial wetlands that are less than 1 acre in size and do not satisfy the following criteria: (1) created by modification of a surface Water of the State; (2) approved by an agency as compensatory mitigation for impacts to other Waters of the State, except where the approving agency explicitly identifies the mitigation as being of limited duration; (3) specifically identified in a water quality control plan as a wetland or other Water of the State; or (4) resulted from historic human



activity, is not subject to ongoing operation and maintenance, and has become a relatively permanent part of the natural landscape. In addition, artificial wetlands greater than or equal to one acre in size are exempt from SWRCB/RWQCB jurisdiction if the artificial wetland was constructed, and is currently used and maintained, primarily for one or more of the following purposes: (1) industrial or municipal wastewater treatment or disposal; (2) settling of sediment; (3) detention, retention, infiltration, or treatment of stormwater runoff and other pollutants or runoff subject to regulation under a municipal, construction, or industrial stormwater permitting program; (4) treatment of surface waters; (5) agricultural crop irrigation or stock watering; (6) fire suppression; (7) industrial processing or cooling; (8) active surface mining – even if the site is managed for interim wetlands functions and values; (9) log storage; (10) treatment, storage, or distribution of recycled water; (11) maximizing groundwater recharge (this does not include wetlands that have incidental groundwater recharge benefits); or (12) fields flooded for rice growing.

## 3.3 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

The CDFW is responsible for conserving, protecting, and managing California's fish, wildlife, and native plant resources. Streams and lakes, as habitat for fish, wildlife, and native plant species, are subject to jurisdiction by CDFW under Sections 1600-1616 of the State Fish and Game Code. Fish and Game Code Section 1602 requires any person, state or local governmental agency, or public utility to notify CDFW before beginning any activity that will do one or more of the following: (1) substantially obstruct or divert the natural flow of a river, stream, or lake; (2) substantially change or use any material from the bed, channel, or bank of a river, stream, or lake; or (3) deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into a river, stream, or lake. These regulated activities require a 1602 Lake and Streambed Alteration Agreement from CDFW. Removal of riparian vegetation also requires a Section 1602 Lake and Streambed Alteration Agreement.

The Fish and Game Code, Sections 1600-1616, regulates activities that would alter the flow, bed, banks, channel, or associated riparian areas of a river, stream, or lake. CDFW jurisdiction over lakes and streams is to the top of bank, or edge of riparian vegetation as determined by edge of dripline, whichever is further (CDFW 1994).

## 4.0 JURISDICTIONAL DELINEATION METHODS

Prior to the field survey, a literature review was conducted to evaluate the potential jurisdictional areas within the Project site and a 150-meter buffer. Biologists reviewed the U.S. Geological Survey (USGS) 7.5-Minute Topographic Map *Salt Canyon* Quadrangle, aerial and historical imagery (Google Earth<sup>©</sup>), the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) database (USFWS 2021), and the U.S. Department of Agriculture (USDA) National Resources Conservation Service (NRCS) Web Soil Survey (USDA NRCS 2021).

A jurisdictional delineation was performed within the Project site from January 18 to 21, 2021. The delineation was conducted at any potential jurisdictional wetlands and waters of the U.S. and State, and areas potentially under CDFW jurisdiction, particularly the standing water, drainages, potential wetlands, and riparian areas that were found within the Project site in 2019 (Tetra Tech 2020). The USACE has developed standard methods and data reporting forms contained in the *Interim Regional Supplement to the Corps of Engineering Wetland Delineation Manual: Arid West Region* (USACE 2008), a supplement to the presence or absence of wetlands and Waters of the U.S. The procedures described in the *Interim Regional Supplement to the Corps of Engineering Wetland Delineation Manual* (Environmental Laboratory 1987), to determine the presence or absence of wetlands and Waters of the U.S. The procedures described in the *Interim Regional Supplement to the Corps of Engineering Wetland Delineation Manual* (Environmental Laboratory 1987), to determine the presence or absence of wetlands and Waters of the U.S. The procedures described in the *Interim Regional Supplement to the Corps of Engineering Wetland Delineation Manual*: Arid West Region were used to identify wetlands and Waters of the U.S. in the project site that are potentially subject to regulation under Section 404 of the Clean Water Act. The potential jurisdictional features were also examined for an OHWM. This delineation methodology was also used to evaluate potential Waters of the State under RWQCB jurisdiction (SWRCB 2019). Areas of CDFW jurisdiction were determined by the presence of a defined bed, bank, and channel, or presence of a lake or pool, and were measured to the top of bank or the edge of riparian vegetation.

Sample points were taken to determine areas of potential jurisdiction and were mapped in the field using an Eos Arrow 100 Global Positioning System (GPS) receiver with sub-meter accuracy. Field indicators were examined, and wetland data reporting forms were used to record three parameters: hydrophytic vegetation, wetland hydrology, and hydric soils. Completed wetland data forms are provided in Appendix A. Photographs taken during the field survey are provided in Appendix B.

Plant species present and the presence or absence of hydrophytic vegetation was recorded. Hydrophytic vegetation was determined to be present if greater than 50 percent of the dominant species at the sample point were OBL, FACW, or FAC (USACE 2016). If the hydrophytic vegetation dominance test was not greater than 50 percent, then the prevalence index was conducted. If the prevalence index was less than or equal to 3.0 then the vegetation was considered hydrophytic.

Soil pits were excavated to a depth of 10-18 inches to examine soils for evidence of hydric indicators and to determine the extent of soil saturation at the sample points. Soil pit locations are synonymous with sample points and were chosen where one or more of the parameters appeared to change. The top 10-18 inches of the soil profile was examined for indicators of hydric soil. At some sample points, the presence of a restrictive rock or compacted soil layer limited the maximum pit depth that could be excavated. Hydric soils were determined based on the presence of one or more of the hydric soil indicators.

At each sample point, indicators of wetland hydrology were examined. Indicators for wetland hydrology include surface water, saturation, high water table, surface soil cracks, sediment deposits, oxidized rhizospheres along living roots, biotic crust, etc.

Sample points were collected for each potential jurisdictional feature when a change in any of the three wetland parameters occurred. Sample points were collected within the feature and in associated upland areas to compare these areas and determine the extent of the feature. Transitional sample points were also collected in areas where change was suspected but additional data was required.



A sample point was considered to be within a USACE wetland if the area met all three wetland parameters. If one or more of these parameters was not met in a typical situation, the point was considered to not be within a USACE wetland. Conversely, atypical situations are wetlands in which vegetation, soil, or hydrology indicators are absent due to recent human activities or natural events. In atypical situations, all three parameters are not required to be considered a USACE wetland.

## 5.0 RESULTS

## 5.1 LITERATURE REVIEW

The Project site does not contain blue-line streams on the USGS topographic map, which are defined as perennial or ephemeral flowing waters in a low area or channel on the land surface. Blue-line streams are shown as broken or solid blue or purple lines on the USGS topographic map. One blue-line stream, Spring Creek, occurs directly south of the Project site and Salt Creek occurs approximately 1 mile north of the site. Mountains, canyons, and ridgelines are absent from the Project site but minor changes in elevation and low-slope rolling hills are present in the site. The NWI database was reviewed for potential wetland areas prior to the field survey. Multiple areas are mapped within the Project site in the NWI database, including a freshwater emergent wetland, freshwater forested/shrub wetlands, and riverine areas (USFWS 2021). These areas were assessed during the jurisdictional delineation since the NWI data is not field verified.

Soils mapped by the USDA NRCS at the sample point locations include Ayar clay, Clear Lake clay, Capay clay loam, and Corning clay loam (USDA NRCS 2021). Hydric soils have been documented by the USDA NRCS in the Ayar clay, Clear Lake clay, and Corning clay loam map units at approximately 1 percent of each unit, and in the Capay clay loam map unit at approximately 3 percent of the unit (USDA NRCS 2021). The presence of hydric soils was assessed during the jurisdictional delineation.

## 5.2 JURISDICTIONAL DELINEATION

Ten potential jurisdictional features were found within the Project site (Figure 2 and Figure 3 Sheets 1-5). All features within the Project site are disturbed by active cattle grazing or agriculture. Features 1 and 3 are ephemeral drainages that had a defined bed, bank, and channel. Feature 1 had standing water and riparian vegetation within the channel in some areas, which consisted of low cover of red willow (*Salix laevigata*), Fremont cottonwood (*Populus fremontii*), cattail (*Typha* sp.), and rush (*Juncus* sp.). Feature 3 did not have standing water but had a small area within the channel with low cover of Fremont cottonwood and rush. Portions of Features 1 and 3 are shown in the NWI database as riverine and portions are shown as freshwater forested/shrub wetland (USFWS 2021). These two features converge in the central portion of the Project site and may connect to Spring Creek offsite to the southeast. Feature 10 is a disturbed drainage that occurs within an active agricultural field and did not have a defined bed and bank. Low cover of red willow was found within this feature. Feature 10 is shown as a freshwater forested/shrub wetland in the NWI database (USFWS 2021). Feature 10 may connect to Salt Creek offsite to the north.

Features 2 and 9 are erosional features that did not have a defined bed and bank. No riparian vegetation was found in these features. Feature 2 connects to Feature 1 within the Project site and Feature 9 may have historically connected to Feature 4 but this connection was no longer evident. Feature 9 is shown in the NWI database as riverine but Feature 1 does not have NWI data (USFWS 2021). Features 4 and 8 are disturbed riparian areas that did not have a defined bed, bank, and channel. Feature 4 had riparian vegetation consisting of sparse Fremont cottonwood, red willow, Goodding's black willow (*Salix gooddingii*), and dock (*Rumex* sp.). Feature 8 consisted of sparse red willow and FAC/FACW grasses including rye grass (*Festuca Perennis*) and canary grass (*Phalaris* sp.). Feature 4 is shown in the NWI database as freshwater forested/shrub wetland and Feature 8 is shown as riverine (USFWS 2021). Feature 4 may have historically connected to Spring Creek offsite to the southeast and Feature 8 may have historically connected to Salt Creek offsite to the north, but these connections are no longer evident.

Features 5 and 7 are depressional ponds where standing water was previously observed in 2019 (Tetra Tech 2020) and can be observed in aerial imagery. Feature 6 is a potential depressional area based on topography but water has not been observed in this area and it is not visible in aerial imagery. These



features ranged from low to moderate cover of FAC/FACW grasses including rye grass and canary grass. Feature 7 is shown in the NWI database as riverine but Features 5 and 6 do not have NWI data (USFWS 2021). Feature 7 may have historically connected to Feature 8, and Feature 5 may have historically connected to Feature 6 and Spring Creek offsite to the southeast, but soil berms adjacent to Features 5 and 7 have blocked the flow out of these areas.

A jurisdictional delineation was conducted at each potential feature and the results are provided in Table 1.

Sample Area	Sample Point*	Hydrophytic Vegetation	Hydric Soil	Wetland Hydrology	USACE Wetlands / RWQCB Waters of the State	CDFW Jurisdiction	Notes	
Feature 1	1-1a upland (up)	-	-	-	<ul><li>✓</li><li>(portions of Feature 1)</li></ul>	~	Drainage channel with a defined bed, bank, and channel.	
	1-1a wetland (wet)	-	-	Yes			Top of bank width ranged from 1.5 to 9 meters and	
	1-1b up	-	-	-			OHWM ranged from 1 to 6 meters.	
	1-2a up	-	-	-			nom i to o meters.	
	1-2a wet	Yes	Yes	Yes				
	1-2b up	-	-	-				
	1-3 wet	-	-	Yes				
	1-4 wet	Yes	Yes	Yes				
	1-5 wet	-	-	Yes				
	1-6 wet	Yes	Yes	Yes				
	1-7 wet	Yes	Yes	Yes				
	1-8 wet	Yes	Yes	Yes				
	1-9 wet	Yes	Yes	Yes				
	1-10 wet	Y		Yes				
Feature 2	2-1 wet	-	-	Yes	-	-	Erosional feature that did not have a defined bed and bank. Width was 2.5 to 4 meters.	
	1-2b up	-	-	-				
Feature 3	3-1 up	-	-	-	-	✓	Drainage channel	
	3-1 wet	-	-	Yes			with a defined bed,	
	3-2 wet	-	-	Yes			bank, and channel.	
	3-3 wet	-	-	Yes			Top of bank width ranged from 2.5 to 6 meters and OHWM ranged from 0.5 to 1.5 meters.	
Feature 4	4-1 up	-	-	-	-	-	Disturbed riparian	
	4-1 wet	Yes	-	-			area that did not have a defined bed, bank, or channel.	
Feature 5	5-1 up	-	-	-	~	✓	Depressional area,	
	5-1 transition (trans)	Yes	Yes	Yes			pond.	
	5-1 wet	Yes	Yes	Yes	]			

#### Table 1. Jurisdictional Delineation Results



Sample Area	Sample Point*	Hydrophytic Vegetation	Hydric Soil	Wetland Hydrology	USACE Wetlands / RWQCB Waters of the State	CDFW Jurisdiction	Notes	
Feature 6	6-1 wet	Yes	-	Yes	-	-	Potential	
	5-1 up	-	-	-			depressional area.	
Feature 7	7-1 up	-	-	-	~	~	Depressional area,	
	7-1 trans	Yes	Yes	Yes			pond.	
	7-1 wet	Yes	Yes	Yes				
Feature 8	8-1 wet	Yes	-	-	-	-	Disturbed riparian	
	7-1 up	-	-	-			area that did not have a defined bed, bank, or channel.	
Feature 9	9-1 wet	-	-	Yes	-	-	Erosional feature	
	4-1 up	-	-				that did not have a defined bed and bank. Width was 1 meter.	
Feature	10-1 up	-	-	-	-	-	Disturbed drainage	
10	10-1 wet	-	-	-			that did not have a defined bed and bank. Width was 5.5 meters.	

#### Table 1. Jurisdictional Delineation Results

Note: "-" = criteria not met.

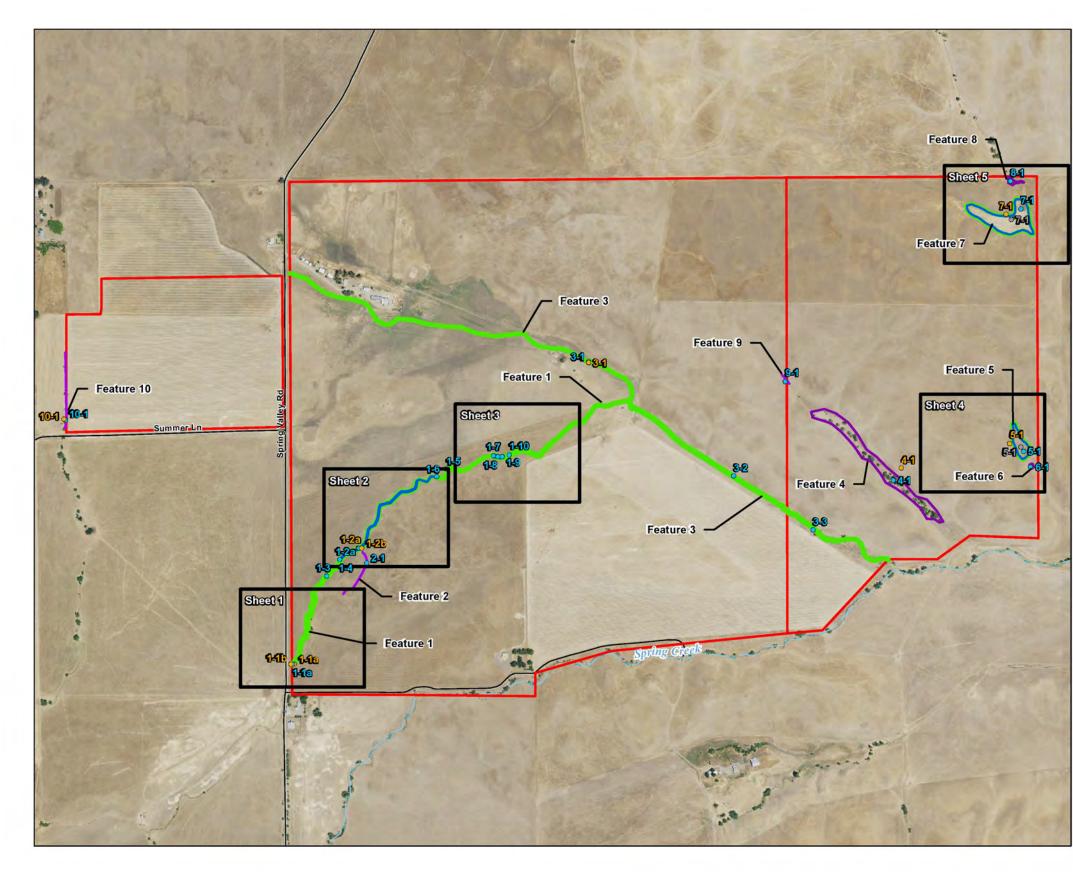
Based on the results of the jurisdictional delineation, it was determined that portions of Feature 1 and the entirety of Features 5 and 7 were wetlands and met the criteria for jurisdiction as USACE Section 404 wetlands and RWQCB Waters of the State since all three USACE wetland parameters were met. In addition, all of Features 1, 3, 5, and 7 met the criteria for CDFW jurisdiction due to the presence of a defined bed, bank, and channel, or as a pond. Features 2, 4, 6, 8, 9, and 10 did not meet the criteria for jurisdiction under the USACE, RWQCB, or CDFW. The boundaries of non-jurisdictional features (i.e., purple areas in Figures 2 and 3 [Sheets 1-5]) represent centerlines or general areas of the features and are provided to show the locations where the jurisdictional delineation was conducted but were determined to not be jurisdictional.

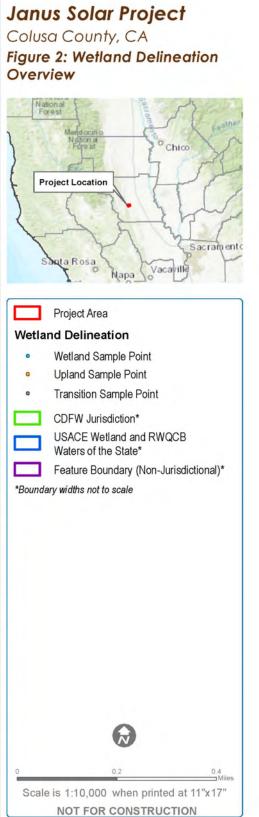
Table 2 provides the acres of the jurisdictional areas. The results of the delineation in the context of the USACE, RWQCB, and CDFW are discussed in the sections below.

Tabl	е 2	Jurisd	lictiona	Areas	

Sample Area	USACE Wetlands (acres)	RWQCB Waters of the State (acres)	CDFW Jurisdiction (acres)
Feature 1	0.4	0.4	2.3
Feature 3	-	-	2.22
Feature 5	0.8	0.8	0.9
Feature 7	2.8	2.8	3.1
Total	4.0	4.0	8.52

Note: RWQCB Waters of the State include wetlands.





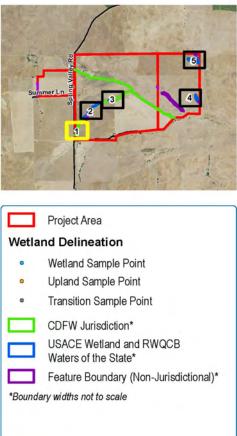


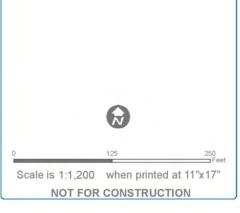


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## Janus Solar Project

Colusa County, CA Figure 3: Wetland Delineation Overview | Sheet 1 Feature 1

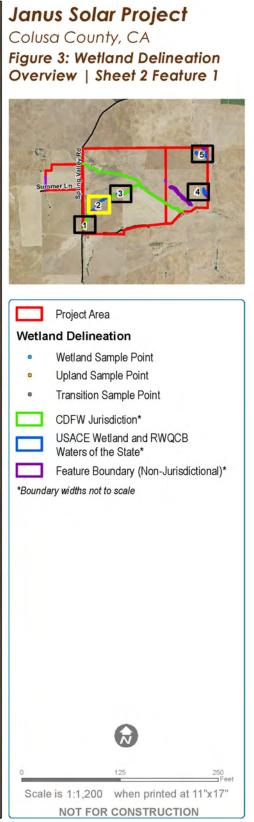








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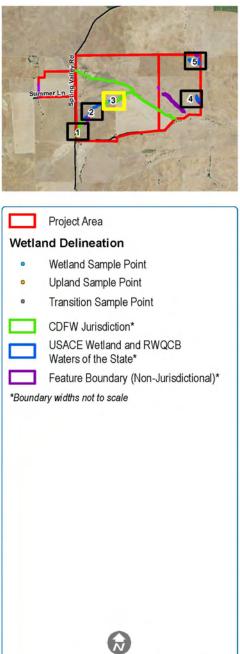




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## Janus Solar Project

Colusa County, CA Figure 3: Wetland Delineation Overview | Sheet 3 Feature 1



Scale is 1:1,200 when printed at 11"x17"

NOT FOR CONSTRUCTION

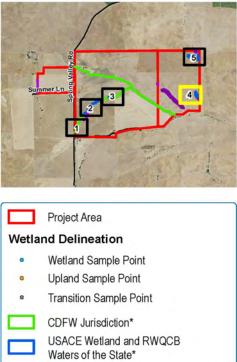
RWE

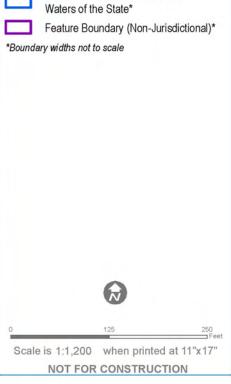
250 TFeet



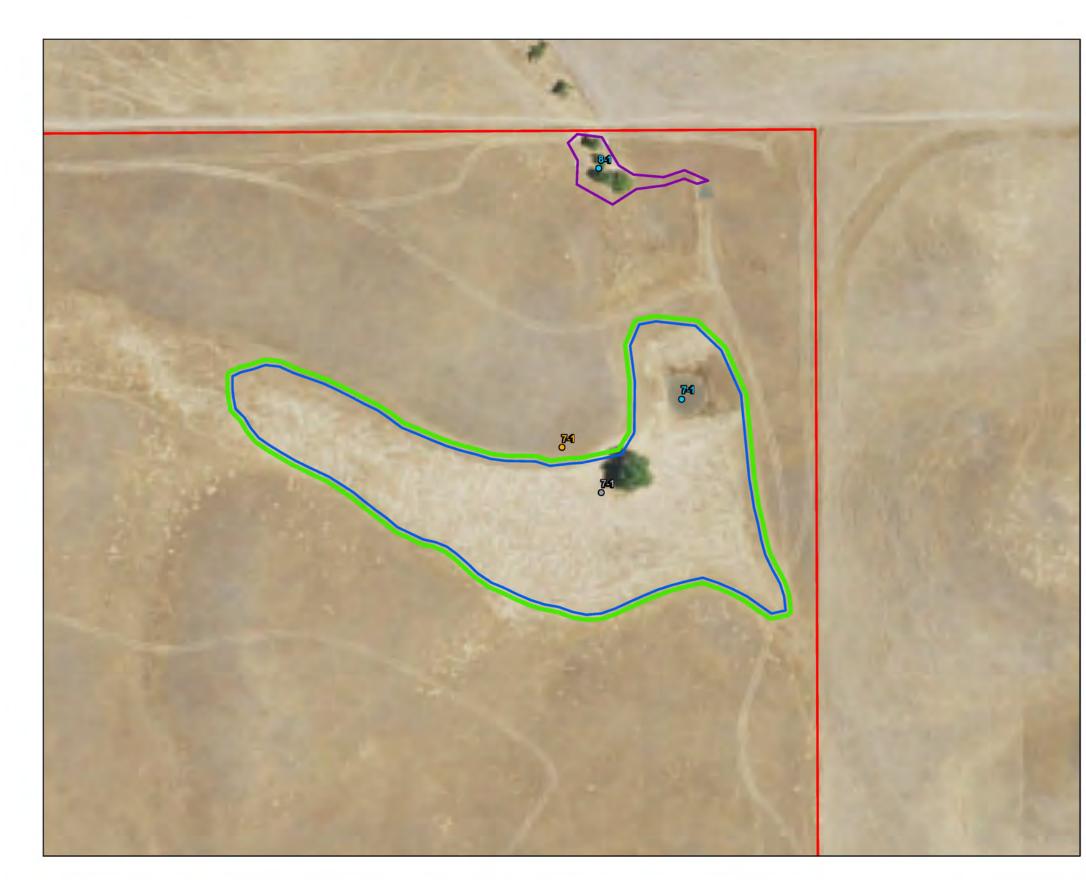
## Janus Solar Project

Colusa County, CA Figure 3: Wetland Delineation Overview | Sheet 4 Feature 5





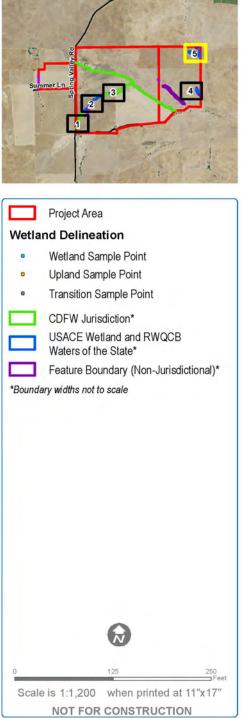




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## Janus Solar Project

Colusa County, CA Figure 3: Wetland Delineation Overview | Sheet 5 Feature 7





## 5.3 U.S. ARMY CORPS OF ENGINEERS

#### 5.3.1 Section 404 Jurisdictional Wetlands

As shown in Table 1, six sample points within Feature 1 met all three criteria required to be a USACE Section 404 wetland. These sample points had low cover of vegetation that was dominated by hydrophytic plants and had standing water and/or saturated soils. The vegetation within this feature was disturbed by cattle grazing; without this disturbance, wetland plants and associated muck (highly decomposed plant matter) would likely be present in higher quantities. Additional hydrology indicators observed were water-stained leaves, hydrogen sulfide odor, and/or water marks. Hydric soil indicators that were found at these points were hydrogen sulfide, loamy gleyed matrix, loamy mucky mineral, redox dark surface, and/or redox depressions. These areas represented topographically low points in the drainage channel with a propensity to pool water.

The sample points within Features 5 and 7 met all three criteria required to be a USACE Section 404 wetland (Table 1). Sample points 5-1 wet and 7-1 wet were located in the lowest areas of the depressions and had low cover of vegetation that was dominated by hydrophytic plants (Figure 3 Sheets 4 and 5). Sample points 5-1 trans and 7-1 trans were located in the transitional areas of the features between the low and upland areas and had moderate (Feature 5) or high (Feature 7) cover of vegetation that was dominated by hydrophytic plants. The redox depressions hydric soil indicator was found at all four of these sample points. While standing water was not observed at either of these features during the 2021 wetland delineation, it was observed during the initial survey in 2019 (Tetra Tech 2020). In addition, water marks, surface soil cracks, inundation visible on aerial imagery, saturation visible on aerial imagery, and/or drainage patterns (i.e., vegetation bent over at sample point 7-1 trans) were observed at these sample points. Based on the presence of large soil berms adjacent to Features 5 and 7, it is hypothesized that manmade flow blocks were previously created to stop flow and create ponding at these features for stock ponds or agricultural purposes. These features are not subject to ongoing operation and maintenance and have become a relatively permanent part of the natural landscape.

All features and sample points were examined for atypical situations where vegetation, soil, or hydrology indicators were absent due to active cattle grazing or agriculture. In these situations, all three parameters are not required to be considered a USACE wetland. Trampling by cattle has disturbed the topsoil in some areas on the Project site but has not significantly affected belowground soil processes such that hydric soil would be absent. While active grazing has significantly disturbed vegetation, no sample points were found that lacked hydrophytic vegetation but had hydric soil. Similarly, while trampling may have obscured wetland hydrology in some areas, no sample points were found that lacked wetland hydrology but had hydric soil. Feature 10 is actively disturbed by dry farming of wheat but no wetland indicators were found within this feature and the soil pit was excavated to a sufficient depth below the upper layer of organic fertilizer to assess hydric soils. Therefore, no atypical situations were found that affected the results of this delineation.

Data on vegetation, hydrology, and soils collected at the sample points during the delineation are provided on the USACE wetland data forms in Appendix A. All sample points are shown in Figure 2 and Figure 3 Sheets 1-5.

#### 5.3.2 Section 404 Jurisdictional Waters of the U.S.

The features on the Project site were evaluated as potential Waters of the U.S. in accordance with the 2020 Navigable Waters Protection Rule. Under the Rule, regulated waters include tributaries (perennial and intermittent rivers and streams) as well as lakes and ponds that contribute surface flow to traditional navigable waters in a typical year. While a defined bed and bank was found at Features 1 and 3 and wetland

hydrology was found at Features 1-3, 5-7, and 9, these features only have surface flow or standing water in direct response to precipitation and are not considered perennial.

Based on the assessment below, the features identified on the Project site are unlikely to contribute surface flow to traditional navigable waters in a typical year. The nearest traditional navigable water is the Sacramento River, which is over 15 miles east of the Project site. Since the area has intensive agricultural and ranching uses, numerous flow diversions are expected to be present between the Project site and the Sacramento River. In addition, due to infrequent, low volume, and short duration of flow, the features on the Project site have a minimal capacity to transfer surface water to potential off-site tributaries of the Sacramento River. Surface water connectivity within the Project site has been significantly disturbed by grazing and agricultural activities, which has resulted in impeded or blocked surface flow. For example, large soil berms are present at Features 5 and 7 that stop off-site flow and create ponding. Therefore, no Section 404 Waters of the U.S. were identified within the Project site.

#### 5.3.3 Areas Exempt from Section 404 Jurisdiction

No areas exempt from Section 404 jurisdiction were identified within the Project site.

## 5.4 REGIONAL WATER QUALITY CONTROL BOARD

#### 5.4.1 Waters of the State

RWQCB Waters of the State include USACE Section 404 jurisdictional wetlands and Waters of the U.S. Therefore, since portions of Feature 1 and the entirety of Features 5 and 7 were determined to be USACE wetlands, these areas are also considered Waters of the State (Figure 3 Sheets 2-5). No Waters of the U.S. were found. In addition, no features with wetland hydrology and hydric soils that lacked vegetation, which would qualify as Waters of the State under the new State wetland definition (SWRCB 2019), were identified on the Project site.

#### 5.4.2 Areas Exempt from State Jurisdiction

No areas exempt from RWQCB jurisdiction were identified within the Project site.

### 5.5 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

Features 1 and 3 met the criteria for CDFW jurisdiction since these features had a defined bed, bank, and channel. CDFW jurisdiction also includes lakes. Since the CDFW does not differentiate lakes from ponds and wet areas, Features 5 and 7 are also considered jurisdictional to the CDFW. Ponded water has been previously observed at Features 5 and 7 (Tetra Tech 2020). Disturbed riparian areas were found within the Project site (Features 4 and 8) but were not associated with a river, stream, or lake, and therefore, are not under CDFW jurisdiction.

## 6.0 CONCLUSION

Based on the results of this wetland delineation and literature review, the Project site contains areas that are under USACE, RWQCB, and/or CDFW jurisdictions. As design of the proposed Project continues, future coordination with each of these agencies will be required if impacts to these areas are anticipated. A Section 404 permit from the USACE, a Section 401 Water Quality Certification from the RWQCB, and a Lake and Streambed Alteration Agreement from the CDFW may be required if these areas cannot be avoided, in which case early coordination with these agencies is recommended. Avoidance or minimization of the impacts to the areas under the jurisdiction of each of these agencies is recommended.

USACE Nationwide Permit (NWP) 14 – Linear Transportation Projects may be used to cover access roads within the Project site for up to 0.5 acre of impacts to non-tidal jurisdictional waters/wetlands. Preconstruction notification to the USACE is not required under NWP 14 if less than 0.10 acre of jurisdictional waters/wetlands would be impacted and no discharges to special aquatic sites would occur. However, coordination with the USACE is recommended to confirm their concurrence with the use of NWP 14 for the Project. This report is subject to verification by the USACE.

### 7.0 LITERATURE CITED

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- USFWS (U.S. Fish and Wildlife Service). 2021. National Wetlands Inventory. Wetlands Mapper. Website: https://www.fws.gov/wetlands/data/Mapper.html. Accessed on January 14, 2021.

## APPENDIX A WETLAND DETERMINATION DATA FORMS

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar	City/County:Colusa (	Sampling Date: 1/18/2021	
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:1-1a up
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, R	ange:1-3, 25, 26, 29, 3	30, 35; 14N, 15N; 3W, 4W
Landform (hillslope, terrace, etc.): Plain	Local relief (concave	, convex, none):None	Slope (%):()
Subregion (LRR):C - Mediterranean California Lat:Ref	er to Map	Long:Refer to Map	Datum:N/A
Soil Map Unit Name: Capay clay loam		NWI class	ification:None
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 💿 🛛 No (	(If no, explain ir	n Remarks.)
Are Vegetation X Soil X or Hydrology significantly	disturbed? Are	"Normal Circumstances	s" present? Yes 💿 No 🔿
Are Vegetation Soil or Hydrology naturally pro	oblematic? (If r	needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point	ocations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Yes O No O			
Hydric Soil Present?     Yes     No       Wetland Hydrology Present?     Yes     No	Is the Sample within a Wetla		No (

Remarks: Project site is actively grazed by cattle throughout.

#### VEGETATION

	Absolute	Dominant		Dominance Test worksheet			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC			(A)
2.			·	-	0		(, ,
3.		·		Total Number of Dominant	1		<b>(D)</b>
				Species Across All Strata:	1		(B)
4				Percent of Dominant Species			
Sapling/Shrub Stratum Total Cove	r: %			That Are OBL, FACW, or FAC	C: 0.0	%	(A/B)
1.				Prevalence Index workshee	it:		
2.				Total % Cover of:	Multiply	by:	_
3.				OBL species	x 1 =	0	
4.			·	FACW species	x 2 =	0	
5.			·	FAC species	x 3 =	0	
Total Cover	r: %			FACU species	x 4 =	0	
Herb Stratum				UPL species 81	x 5 =	405	
<sup>1</sup> Aegilops triuncialis	80	Yes	Not Listed	Column Totals: 81	(A)	405	(B)
<sup>2</sup> .Centaurea solstitialis	1	No	Not Listed				
3.				Prevalence Index = B/A		5.00	
4.				Hydrophytic Vegetation Ind			
5.				Dominance Test is >50%			
6.				Prevalence Index is ≤3.0	1		
7				Morphological Adaptatior			ng
8				Problematic Hydrophytic		,	)
Total Cover Woody Vine Stratum	r: 81 %				(i		·)
				<sup>1</sup> Indicators of hydric soil and	wetland hvdr	ology	must
1				be present.	wedana nya	ology i	nuot
2				- The data is been the			
Total Cover	r: %			Hydrophytic Vegetation			
% Bare Ground in Herb Stratum       19 %       % Cover of Biotic Crust       0 %       Present?       Yes ()       No ()							
Remarks:							

#### SOIL

Profile Des	cription: (Describe	to the depth	needed to docu	ment the in	dicator	or confirm	m the absence of indicators.)		
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks		
0-10	7.5YR 3/3	100					Silty clay loam		
							· · · · · · · · · · · · · · · · · · ·		
		·							
<sup>1</sup> Type: C=C	Concentration, D=Dep	letion. RM=R	educed Matrix.	<sup>2</sup> Location:	PI =Pore	Lining, R	C=Root Channel, M=Matrix.		
						-	am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.		
	ndicators: (Applicabl					. ,	Indicators for Problematic Hydric Soils:		
Histoso	I (A1)		Sandy Redo	x (S5)			1 cm Muck (A9) ( <b>LRR C</b> )		
	pipedon (A2)		Stripped Ma	( )			2 cm Muck (A10) ( <b>LRR B</b> )		
	listic (A3)		Loamy Muc				Reduced Vertic (F18)		
	en Sulfide (A4)	• \			(F2)		Red Parent Material (TF2)		
	d Layers (A5) ( <b>LRR C</b> uck (A9) ( <b>LRR D</b> )	•)	Depleted M	. ,	-6)		Other (Explain in Remarks)		
	ed Below Dark Surface	e (A11)	Depleted D	•	,				
	ark Surface (A12)	- ( )	Redox Dep						
Sandy N	Mucky Mineral (S1)		Vernal Poo	ls (F9)	,		<sup>4</sup> Indicators of hydrophytic vegetation and		
Sandy (	Gleyed Matrix (S4)						wetland hydrology must be present.		
Restrictive	Layer (if present):								
Type:									
Depth (in	nches):						Hydric Soil Present? Yes O No 💿		
Remarks:									
HYDROLO	)G Y								
Wetland Hy	drology Indicators:						Secondary Indicators (2 or more required)		
Primary Indi	cators (any one indica	ator is sufficie	,				Water Marks (B1) ( <b>Riverine</b> )		
	Water (A1)		Salt Crust				Sediment Deposits (B2) ( <b>Riverine</b> )		
	ater Table (A2)		Biotic Cru	· · ·			Drift Deposits (B3) ( <b>Riverine</b> )		
Saturation (A3) Aquatic Invertebrates (B13)							Drainage Patterns (B10)		
	Marks (B1) (Nonriveri			Sulfide Od		Linder D	Dry-Season Water Table (C2)		
	nt Deposits (B2) (Nor			Rhizospher	0	0			
	posits (B3) (Nonriver	ine)		of Reduced	`	,	Crayfish Burrows (C8)		
Surface	e Soil Cracks (B6)		Recent Irc	on Reductio	n in Plow	rea Solis (C	(C6) Saturation Visible on Aerial Imagery (C9)		

Other (Explain in Remarks)

Depth (inches):

Depth (inches):

Depth (inches):

Inundation Visible on Aerial Imagery (B7)

Yes 🔿

Yes 🔿

Yes 🔿

No 💿

No 💿

No 💿

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Water-Stained Leaves (B9)

Field Observations: Surface Water Present?

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

 $(\bullet)$ 

No

Shallow Aquitard (D3)

FAC-Neutral Test (D5)

Yes

С

Wetland Hydrology Present?

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar	City/County:Colusa C	County	Sampling Date: 1/18/2021	
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:1-1a wet	
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, Ra	ange:1-3, 25, 26, 29, 30	), 35; 14N, 15N; 3W, 4W	
Landform (hillslope, terrace, etc.): Drainage channel	Local relief (concave,	, convex, none):None	Slope (%):1	
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:Refer to Map	Datum:N/A	
Soil Map Unit Name: Capay clay loam		NWI classifi	cation:R4SBC	
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes 💿 No (	(If no, explain in I	Remarks.)	
Are Vegetation X Soil X or Hydrology sign	nificantly disturbed? Are	"Normal Circumstances"	present? Yes 💿 No 🔿	
Are Vegetation Soil or Hydrology nat	urally problematic? (If n	needed, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map sh	owing sampling point I	locations, transects	, important features, etc.	
Hydrophytic Vegetation Present? Yes 🕥 No	•			
Hydric Soil Present? Yes No	Is the Sample	d Area		
Wetland Hydrology Present? Yes  No	within a Wetla	and? Yes 🔿	No 💿	
Remarks: Project site is actively grazed by cattle through	ghout.			

#### VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test w				
1.Salix laevigata		Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 1				(A)
2.Prunus dulcis	$-\frac{10}{10}$	$\frac{1 \text{ cs}}{\text{Yes}}$	Not Listed					
3.	10	105		Total Number of Dominant				
				_ Species Across All	Strata:	3		(B)
4				Percent of Dominar				
Sapling/Shrub Stratum Total Cover	r: 20 %					33.3	\$ %	(A/B)
1.				Prevalence Index worksheet:				
2.				Total % Cover	of:	Multiply	by:	-
3.				OBL species		x 1 =	0	
4.	·	·		FACW species	10	x 2 =	20	
5.	·	·		FAC species		x 3 =	0	
Total Cover	. %			FACU species		x 4 =	0	
Herb Stratum				UPL species	11	x 5 =	55	
1. Centaurea solstitialis	1	Yes	Not Listed	Column Totals:	21	(A)	75	(B)
2.								
3.				Prevalence In			3.57	
4.				icators:				
5.				Dominance Test is >50%				
6.				Prevalence Ind	lex is ≤3.0	1		
7				Morphological data in Rem		ns <sup>1</sup> (Provide s n a separate s		ng
8				Problematic Hy			,	)
Total Cover	1 %			<b></b> ,				,
				<sup>1</sup> Indicators of hydri	c soil and	wetland hvdi	rology	must
1				be present.		wedana nya	ology	muot
2				-				
Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum       99 %       % Cover of Biotic Crust       0 %       Present?       Yes ()       No ()								
Remarks:								

#### SOIL

Profile Des	cription: (Describ	e to the depth	n needed to docur	nent the i	ndicator o	or confiri	n the absen	ce of in	dicators.)		
Depth	Matrix			Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	3 .		Remarks	;
	7.5YR 3/4						Silty clay loam <1% thin white lines at				at 5-10"
		•					C=Root Cha				
<sup>3</sup> Soil Texture	es: Clay, Silty Clay	r, Sandy Clay, I	Loam, Sandy Clay	Loam, Sa	ndy Loam	, Clay Loa	am, Silty Clay	/ Loam,	Silt Loam, Sil	t, Loamy	Sand, Sand.
Histoso Histic E Black H Hydroge Stratifie 1 cm M Deplete Thick D Sandy N Sandy O	I (A1) pipedon (A2) iistic (A3) en Sulfide (A4) d Layers (A5) (LRI uck (A9) (LRR D) d Below Dark Surf ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	<b>R C</b> ) ace (A11)	s, unless otherwise Sandy Redo: Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Da Redox Depleted Da Redox Depleted Da Vernal Pool	x (S5) httrix (S6) ky Minera red Matrix atrix (F3) Surface ( ark Surfac ressions (I	(F2) (F6) ee (F7)		☐ 1 cn 2 cn Red Red Othe	n Muck ( n Muck ( luced Ve l Parent er (Expla ors of hyd	bblematic Hyd A9) (LRR C) A10) (LRR B rtic (F18) Material (TF2 ain in Remark drophytic veg blogy must be	) s) etation ar	nd
Restrictive	Layer (if present)	:									
Туре:											
Depth (in	iches):						Hydric Se	oil Pres	ent? Yes (	C	No 💿
Remarks:											
HYDROLO	GY										
Wetland Hy	drology Indicator	s:					Sec	condary	Indicators (2	or more r	equired)
Primary Indi	cators (any one ind	dicator is suffici	ent)					Water I	Marks (B1) ( <b>F</b>	(iverine)	
Surface	Water (A1)		Salt Crust	(B11)				Sedime	ent Deposits (	B2) ( <b>Rive</b>	erine)
	ater Table (A2)		Biotic Crus				X		eposits (B3) (I	,	
Saturati			Aquatic In						ge Patterns (E	,	
	/larks (B1) (Nonriv		Hydrogen		. ,	: : D .			ason Water T		1
	nt Deposits (B2) (Napri		Oxidized F		-	-			uck Surface (	,	
	posits (B3) ( <b>Nonri</b> Soil Cracks (B6)	/enne)	Recent Iro		``	,	(C6)		h Burrows (C ion Visible or	,	(CQ) vranen
	ion Visible on Aeria	al Imagery (B7)							v Aquitard (D:		lagery (00)
	Stained Leaves (B9	••••							eutral Test (D		
Field Obser		,							,	,	
Surface Wat	ter Present?	Yes 🔿 N	o 💿 Depth (in	ches):							
Water Table	Present?		o 💿 Depth (ind	ches):							
Saturation F (includes ca	Present? pillary fringe)	Yes O N	o  Depth (ind	ches):		Wet	land Hydrold	ogy Pre	sent? Yes	$oldsymbol{eta}$	No ()

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Sampling Date: 1/18/2021					
up					
5; 14N, 15N; 3W, 4W					
Slope (%):()					
J/A					
No 🔿					
lematic? (If needed, explain any answers in Remarks.)					
res, etc.					
-					

#### VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?		Dominance Test w				
		Yes		Number of Dominant Species That Are OBL, FACW, or FAC: 1				( ^ )
1.Salix laevigata	3		FACW	- That Are OBL, FAC	W, OF FAU	J: ]		(A)
2.Prunus dulcis	3	Yes	Not Listed	Total Number of Do				
3				Species Across All S	Strata:	3		(B)
4				Percent of Dominan	t Species			
Total Cover Sapling/Shrub Stratum	r: 6 %			That Are OBL, FACW, or FAC: 33.3 %			3 %	(A/B)
1.				Prevalence Index worksheet:				
2.				Total % Cover of		Multiply	hv.	
3.				OBL species	<i>.</i>	x 1 =	0	
				FACW species	2	x 2 =	6	
4.					3		-	
5		·	·	FAC species		x 3 =	0	
Total Cover Herb Stratum	: %			FACU species	11	x 4 =	44	
	50	17		UPL species	54	x 5 =	270	
1.Aegilops triuncialis	50	Yes	Not Listed	Column Totals:	68	(A)	320	(B)
2.Cynodon dactylon	10	No	FACU	Prevalence Inc	dox = P//	۸_	471	
<sup>3</sup> . <u>Centaurea solstitialis</u>	1	No	Not Listed				4.71	
<sup>4</sup> . <i>Erodium sp.</i>	1	No	FACU	Hydrophytic Veget				
5.				Dominance Test is >50%				
6.				Prevalence Index is ≤3.0 <sup>1</sup>				
7				Morphological A		ns <sup>1</sup> (Provide s n a separate s		ng
8				- Problematic Hy		•	,	
Total Cover	62 %				aropriyao	vegetation (	LApidin	''
Woody Vine Stratum				1 Indiantors of hydrig		watland byd	rology	munt
1				<ul> <li><sup>1</sup>Indicators of hydric</li> <li>be present.</li> </ul>	soli anu	welland nyu	lology i	nusi
2				_				
Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum       38 %       % Cover of Biotic Crust       0 %       Present?       Yes ()       No ()								
Remarks:								

#### SOIL

	scription: (Describe to	o the deptl			or or confirn	n the absenc	e of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	K Features % Type	<sup>1</sup> Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks			
				<u></u>						
0-16	7.5YR 3/3					Silty clay loar	<u> </u>			
				· ·						
				· ·						
				· ·						
				·						
<sup>1</sup> Type: C=0	Concentration, D=Deple	etion, RM=	Reduced Matrix.	<sup>2</sup> Location: PL=P	ore Lining, R	C=Root Char	nnel, M=Matrix.			
<sup>3</sup> Soil Textur	res: Clay, Silty Clay, Sa	andy Clay,	Loam, Sandy Clay	Loam, Sandy Loa	am, Clay Loa	m, Silty Clay	Loam, Silt Loam, Silt, Loamy Sand, Sand.			
	Indicators: (Applicable	to all LRR		-			s for Problematic Hydric Soils <sup>4</sup> :			
Histoso	( )		Sandy Redox	. ,			Muck (A9) (LRR C)			
	Epipedon (A2)		Stripped Ma				2 cm Muck (A10) (LRR B)			
	Histic (A3)			ky Mineral (F1)			uced Vertic (F18)			
	gen Sulfide (A4)			ved Matrix (F2)			Parent Material (TF2)			
	ed Layers (A5) (LRR C)	)	Depleted Ma	. ,		Othe	r (Explain in Remarks)			
	/luck (A9) (LRR D)			Surface (F6)						
	ed Below Dark Surface	(A11)		ark Surface (F7)						
	Dark Surface (A12)		·	ressions (F8)		4				
	Mucky Mineral (S1)		Vernal Pool	s (F9)		<sup>4</sup> Indicators of hydrophytic vegetation and				
	Gleyed Matrix (S4)					wetian	nd hydrology must be present.			
Type:	e Layer (if present):									
Depth (i	nches).					Hydric So	il Present? Yes 🔿 No 💿			
Remarks:						Tryano oo				
rtomanto.										
HYDROLO	OGY									
Wetland H	ydrology Indicators:					Seco	ondary Indicators (2 or more required)			
Primary Inc	dicators (any one indica	tor is suffic	ient)				Water Marks (B1) (Riverine)			
Surface	e Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Riverine)			
High W	/ater Table (A2)		Biotic Crus	st (B12)			Drift Deposits (B3) (Riverine)			
Satura	tion (A3)		Aquatic Inv	vertebrates (B13)	)	$\Box$	Drainage Patterns (B10)			
Water	Marks (B1) (Nonriverir	ne)	Hydrogen	Sulfide Odor (C1	)		Dry-Season Water Table (C2)			
Sedime	ent Deposits (B2) (Non	riverine)	Oxidized R	Rhizospheres alor	ng Living Roo	ots (C3)	Thin Muck Surface (C7)			
	eposits (B3) (Nonriveri			of Reduced Iron (			Crayfish Burrows (C8)			

Recent Iron Reduction in Plowed Soils (C6)

Other (Explain in Remarks)

Depth (inches):

Depth (inches):

Depth (inches):

Remarks:

Surface Soil Cracks (B6)

Water-Stained Leaves (B9)

Field Observations: Surface Water Present?

Water Table Present?

(includes capillary fringe)

Saturation Present?

Inundation Visible on Aerial Imagery (B7)

Yes ()

Yes 🔿

Yes 🔿

No 💿

No 💿

No 💿

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

 $(\bullet)$ 

No

Saturation Visible on Aerial Imagery (C9)

Yes

С

Shallow Aquitard (D3)

FAC-Neutral Test (D5)

Wetland Hydrology Present?

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar	City/County:Colusa	County	Sampling Date: 1/18/2021						
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:1-2a up						
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, F	Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W							
Landform (hillslope, terrace, etc.): Plain	Local relief (concave	e, convex, none):None	Slope (%):()						
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:Refer to Map Datum:N/A							
Soil Map Unit Name: Capay clay loam		NWI classifi	cation:None						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No (If no, explain in Remarks.)									
Are Vegetation X Soil X or Hydrology sign	ificantly disturbed? Are	e "Normal Circumstances"	present? Yes 💿 No 🔿						
Are Vegetation Soil or Hydrology natu	urally problematic? (If	needed, explain any answe	ers in Remarks.)						
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes 🕥 No (	$\overline{\bullet}$								
Hydric Soil Present? Yes No	Is the Sample	ed Area							
Wetland Hydrology Present? Yes O No	within a Wetl	and? Yes 🔿	No 💿						

Remarks: Project site is actively grazed by cattle throughout.

#### VEGETATION

	Absolute % Cover	Dominant		Dominance Test worksh	eet:			
Tree Stratum (Use scientific names.)		Species?	Status	Number of Dominant Spec	cies			
1.				That Are OBL, FACW, or	FAC: 0		(A)	
2.				_ _ Total Number of Dominan	•			
3.				Species Across All Strata:	-		(B)	
4.		·		-	-		( )	
Total Cove	r: %			Percent of Dominant Spec		2		
Sapling/Shrub Stratum	1. 70			That Are OBL, FACW, or	-AC: 0.0	) %	(A/B)	
1.				Prevalence Index worksheet:				
2.				Total % Cover of:	Multiply	/ by:	_	
3.				OBL species	x 1 =	0		
4.	·			FACW species	x 2 =	0		
5.				FAC species	x 3 =	0		
Total Cover	r: %			FACU species	x 4 =	0		
Herb Stratum	,0			UPL species 65	x 5 =	325		
<sup>1</sup> .Aegilops triuncialis	30	Yes	Not Listed	_ Column Totals: 65	(A)	325	(B)	
2. Centaurea solstitialis	30	Yes	Not Listed			010		
3. Hemizonia congesta	5	No	Not Listed	Prevalence Index = $B/A = 5.00$				
4.		·		Hydrophytic Vegetation	Indicators:			
5.				Dominance Test is >50%				
6.				Prevalence Index is ≤3.0 <sup>1</sup>				
7.				Morphological Adapta	tions <sup>1</sup> (Provide :	supporti	ng	
8.		·		data in Remarks o	on a separate	sheet)	-	
Total Cover				Problematic Hydrophy	tic Vegetation <sup>1</sup>	(Explain	ı)	
Woody Vine Stratum	65 %							
1.				<sup>1</sup> Indicators of hydric soil a	and wetland hyc	drology	must	
2.				be present.		•••		
Total Cover	r: %			Hydrophytic				
	,.			Vegetation				
	r of Biotic (	Crust (	%	Present? Yes (	) No 🖲			
Remarks:								

Profile Des	cription: (Describe t	to the depth	needed to docun	nent the	indicator	or confirm	n the absence of in	dicators.)
Depth	Matrix	-	Redox	Features	5			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-16	7.5YR 3/4	100					Silty clay loam	
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM=R	educed Matrix.	<sup>2</sup> Location	n: PL=Pore	e Lining, R	C=Root Channel, M=	=Matrix.
<sup>3</sup> Soil Textur	es: Clay, Silty Clay, S	Sandy Clay, L	oam, Sandy Clay	Loam, Sa	indy Loam	, Clay Loa	am, Silty Clay Loam,	Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicabl	e to all LRRs	unless otherwise	noted.)			Indicators for Pro	oblematic Hydric Soils:
Histoso	· · /		Sandy Redo	. ,			1 cm Muck (	(A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped Ma	. ,				(A10) ( <b>LRR B</b> )
	listic (A3)		Loamy Muc	•	. ,		Reduced Ve	
	en Sulfide (A4)		Loamy Gley		: (F2)			Material (TF2)
	ed Layers (A5) (LRR C	)	Depleted Ma				Other (Expla	ain in Remarks)
	uck (A9) ( <b>LRR D</b> ) ed Below Dark Surface	(A11)	Depleted Dark		. ,			
	ark Surface (A12)	e (ATT)	Redox Depi		( )			
	Mucky Mineral (S1)		Vernal Pool		10)		<sup>4</sup> Indicators of by	drophytic vegetation and
	Gleyed Matrix (S4)			0(10)			,	plogy must be present.
	Layer (if present):							
Type:								
Depth (ir	chec):						Hydric Soil Pres	ent? Yes 🔿 No 💿
Remarks:							Tryunc Son Tres	
Remarks.								
HYDROLO								
	/drology Indicators:							Indicators (2 or more required)
	icators (any one indica	ator is sufficie	,					Marks (B1) ( <b>Riverine</b> )
Surface	e Water (A1)		Salt Crust	(B11)			Sedime	ent Deposits (B2) (Riverine)
🔄 High W	ater Table (A2)		Biotic Crus	```				eposits (B3) ( <b>Riverine</b> )
Saturat	ion (A3)		Aquatic Inv	vertebrate	es (B13)		Draina	ge Patterns (B10)
Water I	Marks (B1) ( <b>Nonriveri</b>	ne)	Hydrogen	Sulfide O	dor (C1)		Dry-Se	ason Water Table (C2)
Sedime	ent Deposits (B2) (Nor	nriverine)	Oxidized F	Rhizosphe	eres along	Living Roo	ots (C3)	uck Surface (C7)
Drift De	eposits (B3) (Nonriver	ine)	Presence	of Reduce	ed Iron (C4	4)	Crayfis	h Burrows (C8)
Surface	e Soil Cracks (B6)		Recent Iro	n Reducti	on in Plow	ved Soils (	C6) Saturat	tion Visible on Aerial Imagery (C9)
Inundat	tion Visible on Aerial Ir	magery (B7)	Other (Exp	lain in Re	emarks)		Shallov	v Aquitard (D3)
Water-	Stained Leaves (B9)						FAC-N	eutral Test (D5)
Field Obse	rvations:							
Surface Wa	ter Present? Ye	es 🔿 🛛 No	<ul> <li>Depth (ind</li> </ul>	ches):				

Depth (inches):

Depth (inches):

No 💽

No 💿

Yes 🔿

Yes 🔿

Remarks:

Water Table Present?

Saturation Present?

 $\bigcirc$ 

 $(\bullet)$ 

No

Project/Site: Janus Solar	_ City/County:Co	olusa County	Sampling Date: 1/18/2021						
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:1-2a wet						
Investigator(s): Daniel Berg, Monique O'Conner	Section, Towns	ship, Range: 1-3, 25, 26, 29, 30	), 35; 14N, 15N; 3W, 4W						
Landform (hillslope, terrace, etc.): Drainage channel	Local relief (co	oncave, convex, none):None	Slope (%):1						
Subregion (LRR):C - Mediterranean California	efer to Map	Long:Refer to Map	Datum:N/A						
Soil Map Unit Name: Capay clay loam	NWI classifi	cation:PSSC							
Are climatic / hydrologic conditions on the site typical for this time of	year?Yes 💿	No (If no, explain in F	Remarks.)						
Are Vegetation X Soil X or Hydrology significant	tly disturbed?	present? Yes 💿 No 🔿							
Are Vegetation Soil or Hydrology naturally p	problematic?	(If needed, explain any answe	ers in Remarks.)						
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes  No									

Hydric Soil Present?	Yes	$\overline{\bullet}$	No	o 🔘	Is the Sampled Area					
Wetland Hydrology Present?	Yes	$\textcircled{\bullet}$	No	0	within a Wetland?	Yes	$\bullet$	No 🔿		
Remarks: Project site is actively graz	ed by	cattle	thro	ughout.						

	Absolute	Dominant		Dominance Test wo	rkshee	t:		
Tree Stratum (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant That Are OBL, FACV				(A)
2.				Total Number of Don	ninant			
3.				Species Across All S		4		(B)
4.	_			- Dereent of Deminort	Coosie			
Total Cove	r: %			<ul> <li>Percent of Dominant That Are OBL, FACV</li> </ul>			0 %	(A/B)
Sapling/Shrub Stratum	2	17		Prevalence Index w	arkoho	o.t.		
1.Salix sp.	2	Yes	FACW					
2				Total % Cover of		Multiply		
3				OBL species	15	x 1 =	15	
4.				FACW species	7	x 2 =	14	
5.				FAC species		x 3 =	0	
Total Cove	r: 2 %			FACU species	5	x 4 =	20	
Herb Stratum				UPL species		x 5 =	0	
1. Typha sp.	15	Yes	OBL	Column Totals:	27	(A)	49	(B)
<sup>2</sup> .Ambrosia psilostachya	5	Yes	FACU		-			
3. Juncus sp.	5	Yes	FACW	Prevalence Ind			1.81	
4.				Hydrophytic Vegeta				
5.				X Dominance Test	is >50%	6		
6.				× Prevalence Inde	x is ≤3.0	$D^1$		
7				Morphological A data in Rema				ng
8				Problematic Hyd				)
Woody Vine Stratum	r: 25 %						(	,
1.				<sup>1</sup> Indicators of hydric	soil and	d wetland hyd	Irology	must
2.				be present.				
Total Cove	r: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 75 % % Cover	r of Biotic C	Crust 0	%		Yes 💿	No 🔿		
Remarks:				1				

Profile Des	cription: (Describe	to the depth	needed to docu	ment the	indicator o	or confir	m the ab	sence of	indicators.)
Depth	Matrix			x Feature			·	2	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure°	Remarks
0-4	Gley 1 3/10Y						Silty clay	y loam	Mucky texture.
4-16	10YR 5/8						Silty cla	y loam	
							·		
17				21				<u> </u>	
	Concentration, D=De				n: PL=Pore				m=Matrix. m, Silt Loam, Silt, Loamy Sand, Sand.
	Indicators: (Applical				andy Loam,			-	Problematic Hydric Soils:
Histoso			Sandy Red						ck (A9) ( <b>LRR C</b> )
	Epipedon (A2)		Stripped M	latrix (S6)				2 cm Mu	ck (A10) (LRR B)
	listic (A3)		Loamy Mu	•	. ,				Vertic (F18)
•••	en Sulfide (A4)	•	X Loamy Gle						ent Material (TF2)
	ed Layers (A5) (LRR luck (A9) (LRR D)	<b>C</b> )	Depleted N Redox Dar	( )				Other (E	xplain in Remarks)
	ed Below Dark Surface	ce (A11)			( )				
	Dark Surface (A12)	()	Redox Dep		. ,				
	Mucky Mineral (S1)		Vernal Poo	ols (F9)					hydrophytic vegetation and
	Gleyed Matrix (S4)						W	etland h	/drology must be present.
	Layer (if present):								
Type:									
Depth (ii	nches):						Hydri	c Soil P	resent? Yes  No
Remarks:									
HYDROLO	DGY								
	vdrology Indicators	:						Seconda	ary Indicators (2 or more required)
	icators (any one indi		ent)					-	er Marks (B1) ( <b>Riverine</b> )
	e Water (A1)		Salt Crus	t (B11)					liment Deposits (B2) ( <b>Riverine</b> )
	ater Table (A2)		Biotic Cru	` '					t Deposits (B3) ( <b>Riverine</b> )
L °	tion (A3)			nvertebrate	es (B13)				inage Patterns (B10)
Water I	Marks (B1) (Nonrive	rine)	K Hydroger	n Sulfide O	dor (C1)			Dry-	Season Water Table (C2)
Sedime	ent Deposits (B2) (No	onriverine)	Oxidized	Rhizosphe	eres along l	_iving Ro	oots (C3)	Thir	n Muck Surface (C7)
Drift De	eposits (B3) ( <b>Nonrive</b>	erine)	Presence	of Reduce	ed Iron (C4	)		Cra	yfish Burrows (C8)
Surface	e Soil Cracks (B6)		Recent Ir	on Reduct	ion in Plow	ed Soils	(C6)	Sat	uration Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)									
	Stained Leaves (B9)							FAC	C-Neutral Test (D5)
Field Obse			-						
			Depth (ir	· · · · · · · · · · · · · · · · · · ·	16 inches				
Water Table		Yes 🔿 No	Depth (ir	<i>′</i>					
Saturation I	Present?	Yes 🔿 🛛 No	) 💿 🛛 Depth (ir	nches):		14/~1	land Heed		

Remarks: Algae layer present atop water.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

(includes capillary fringe)

No С

Wetland Hydrology Present? Yes 💿

Project/Site: Janus Solar	City/County:Colusa Co	ounty	Sampling Date: 1/18/2021			
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:1-2b up			
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, Ra	nge:1-3, 25, 26, 29, 30	), 35; 14N, 15N; 3W, 4W			
Landform (hillslope, terrace, etc.): Plain	Local relief (concave, o	convex, none):None	Slope (%):0			
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:Refer to Map	Datum:N/A			
Soil Map Unit Name: Capay clay loam		NWI classifi	cation:None			
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes 💿 No 🤇	(If no, explain in I	Remarks.)			
Are Vegetation X Soil X or Hydrology sig	nificantly disturbed? Are "	Normal Circumstances"	present? Yes 💿 No 🔿			
Are Vegetation Soil or Hydrology na	turally problematic? (If ne	roblematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map sl	howing sampling point lo	ocations, transects	s, important features, etc.			
Hydrophytic Vegetation Present? Yes 🕥 No	•					
Hydric Soil Present? Yes No	Is the Sampled	Area				
Wetland Hydrology Present? Yes No	within a Wetlar	nd? Yes 🔿	No 🖲			

Remarks: Project site is actively grazed by cattle throughout.

	Absolute	Dominant		Dominance Test w	vorksheet			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina				
1				That Are OBL, FAC	W, or FA	C: 0		(A)
2				Total Number of Do	ominant			
3				Species Across All	Strata:	2		(B)
4.				Percent of Dominar	nt Snacias			
Total Cove	r: %			That Are OBL, FAC			) %	(A/B)
Sapling/Shrub Stratum								
1				Prevalence Index				
2				Total % Cover	of:	Multiply	,	
3.				OBL species		x 1 =	0	
4.				FACW species	3	x 2 =	6	
5.				FAC species		x 3 =	0	
Total Cover	: %			FACU species	1	x 4 =	4	
Herb Stratum				UPL species	61	x 5 =	305	
1.Aegilops triuncialis	30	Yes	Not Listed	Column Totals:	65	(A)	315	(B)
<sup>2</sup> .Centaurea solstitialis	30	Yes	Not Listed					
3. Juncus sp.	3	No	FACW	Prevalence In			4.85	
4. Hemizonia congesta	1	No	Not Listed	Hydrophytic Vege				
5. Cynodon dactylon	1	No	FACU	Dominance Te	st is >50%	)		
6.				Prevalence Ind	lex is ≤3.0	1		
7.				Morphological				ng
8.						a separate s	,	
Total Cover	65 %			- Problematic Hy	/drophytic	Vegetation'	Explain	1)
Woody Vine Stratum	05 %							
1.				<sup>1</sup> Indicators of hydri	c soil and	wetland hyd	rology	must
2.				be present.				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum 35 % % Cover	of Biotic C	Crust (	) %	Vegetation Present?	Yes 🔿	No 💿		
Remarks:						- 0		
Komuno.								

Profile Des	cription: (Describe	e to the depth r	eeded to docur	nent the	indicator c	or confirm	n the abs	ence of i	ndicators.)
Depth	Matrix			Feature				2	
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	re°	Remarks
0-8	7.5YR 3/3	100					Silty clay	loam	Soil is extremely compacted
•••	Concentration, D=De	•			n: PL=Pore				
					andy Loam,	Clay Loa			n, Silt Loam, Silt, Loamy Sand, Sand.
	ndicators: (Applical	ble to all LRRs,	_						Problematic Hydric Soils:
Histoso			Sandy Redo	. ,					(A9) ( <b>LRR C</b> )
	pipedon (A2) listic (A3)		Stripped Ma	. ,	al (F1)				( (A10) ( <b>LRR B</b> ) /ertic (F18)
	en Sulfide (A4)		Loamy Gley		. ,				nt Material (TF2)
	d Layers (A5) (LRR	<b>C</b> )	Depleted M				⊢ c	ther (Exp	blain in Remarks)
1 cm M	uck (A9) ( <b>LRR D</b> )		Redox Dark	Surface	(F6)				
	d Below Dark Surfa	ce (A11)	Depleted Da		. ,				
	ark Surface (A12)		Redox Depr		(F8)		<i>A</i>		
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pool	s (F9)					ydrophytic vegetation and Irology must be present.
	Layer (if present):						We	stianu nyc	loogy must be present.
	mpacted soil								
Depth (ir	1						Hydric	: Soil Pre	esent? Yes 🔿 No 💿
Remarks:							Tiyana		
Remarks.									
HYDROLC	)GY								
Wetland Hy	drology Indicators	:						Secondar	y Indicators (2 or more required)
-	cators (any one indi		nt)				- Г	Wate	r Marks (B1) ( <b>Riverine</b> )
	Water (A1)		Salt Crust	(B11)			[	 Sedir	nent Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Crus	st (B12)			ſ	Drift I	Deposits (B3) ( <b>Riverine</b> )
Saturat	ion (A3)		Aquatic Inv		es (B13)		ſ		age Patterns (B10)
Water N	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		Ī	Dry-S	Season Water Table (C2)
Sedime	nt Deposits (B2) (No	onriverine)	Oxidized F	Rhizosphe	eres along L	_iving Ro	ots (C3)	Thin	Muck Surface (C7)
Drift De	posits (B3) ( <b>Nonrive</b>	erine)	Presence	of Reduc	ed Iron (C4	)	ו	Crayf	ish Burrows (C8)
Surface Soil Cracks (B6)									ation Visible on Aerial Imagery (C9)
Inundat	ion Visible on Aerial	Imagery (B7)	Other (Exp	lain in Re	emarks)		[	Shall	ow Aquitard (D3)
Water-S	Stained Leaves (B9)						[	FAC-	Neutral Test (D5)
Field Obse	rvations:								
Surface Wa	ter Present?	Yes 🔿 🛛 No	Depth (ind	ches):					
Water Table	Present?	Yes 🔿 🛛 No	<ul> <li>Depth (ind</li> </ul>	ches):					
Saturation F	Present?	Yes 🔿 No	<ul> <li>Depth (ind</li> </ul>	ches):					

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

(includes capillary fringe)

 $\bigcirc$ 

No ()

Wetland Hydrology Present? Yes

Project/Site: Janus Solar		City/County:C	olusa County	Sampling Date: 1/18/2021		
Applicant/Owner: RWE Solar Development, LLC			S	state:CA	Sampling Point:1-3	wet
Investigator(s): Daniel Berg, Monique O'Conner		Section, Town	ship, Range:1-3	, 25, 26, 29, 30	0, 35; 14N, 15N; 3V	W, 4W
Landform (hillslope, terrace, etc.): Drainage channel		Local relief (c	oncave, convex,	none):None	Slope	(%):1
Subregion (LRR): C - Mediterranean California	Lat:Ref	er to Map	Long:	Refer to Map	Datum:	N/A
Soil Map Unit Name: Capay clay loam				NWI classifi	ication:R4SBC	
Are climatic / hydrologic conditions on the site typical for	or this time of ye	ear?Yes 💿	No 🔿 🛛 (I	f no, explain in l	Remarks.)	
Are Vegetation X Soil X or Hydrology	significantly	disturbed?	Are "Normal	Circumstances"	present? Yes 💽	No 🔿
Are Vegetation Soil or Hydrology	naturally pro	oblematic?	(If needed, ex	xplain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site m	ap showing	sampling p	oint location	ns, transects	s, important feat	ures, etc.
Hydrophytic Vegetation Present?Yes (Hydric Soil Present?Yes (	No 💿 No 💿	Is the S	Sampled Area			
Wetland Hydrology Present? Yes	No 🦳	within	a Wetland?	Yes	No 🔴	

Remarks: Project site is actively grazed by cattle throughout.

Absolute	Dominant	Indicator	Dominance Test v	vorksheet			
% Cover	Species?	Status	Number of Domina	nt Species	5		
						1	(A)
			Total Number of D	ominant			
					,	2	(B)
			-			_	< <i>'</i>
vor: %							(A/B)
vei. 70				5W, 01 FA	5. 50	).0 %	(A/B)
1	Yes	FACW	Prevalence Index	workshee	et:		
			Total % Cover	of:	Multip	ly by:	_
			OBL species		x 1 =	0	
			FACW species	1	x 2 =	2	
	·		FAC species		x 3 =	0	
ver: 1 %			FACU species		x 4 =	0	
			UPL species	1	x 5 =	5	
1	Yes	Not Listed	Column Totals:	2	(A)		(B)
				2	(, ,)	,	( )
	·		Prevalence Ir	ndex = B/A	4 =	3.50	
			Hydrophytic Vege	etation Ind	licators:		
			Dominance Te	est is >50%	<b>b</b>		
			Prevalence Inc	dex is ≤3.0	1		
			Morphological	Adaptation	ns <sup>1</sup> (Provide	e supporti	ng
			data in Ren	narks or or	n a separate	e sheet)	
/er: 1			- Problematic H	ydrophytic	Vegetation	<sup>1</sup> (Explain	ı)
1 %							
				ic soil and	wetland h	drology i	must
			be present.				
ver: %			Hydrophytic				
	Smuch 0		Vegetation	Vec C		-	
ver of Blotic C	rust ()	%	Present?	res 🔿	NO (	9	
	% Cover	% Cover       Species?	% Cover       Species?       Status	% Cover       Species?       Status       Number of Domina         That Are OBL, FAC       Total Number of Do       Species Across All         ver:       %       Percent of Domina         ver:       %       Prevalence Index	% Cover       Species?       Status       Number of Dominant Species	% Cover       Species?       Status       Number of Dominant Species	% Cover       Species?       Status         Number of Dominant Species       That Are OBL, FACW, or FAC:       1         Total Number of Dominant       Species Across All Strata:       2         Percent of Dominant Species       Percent of Dominant Species       2         ver:       %       Percent of Dominant Species       50.0 %         1       Yes       FACW       Prevalence Index worksheet:       50.0 %         1       Yes       FACW       Prevalence Index worksheet:       1 = 0         Column Total % Cover of:       Multiply by:       OBL species       x 1 = 0         FACW species       1 x 2 = 2       2       FACW species       x 3 = 0         Ver:       1 %       FACU species       x 4 = 0       0         UPL species       1 x 5 = 5       Column Totals:       2 (A) 7         Prevalence Index = B/A = 3.50       Status       Opminance Test is >50%         Prevalence Index is ≤3.0 <sup>1</sup> Dominance Test is >50%       Prevalence Index is ≤3.0 <sup>1</sup> Ver:       1 %

Depth	Matrix		Redox F	eature	s		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks
0-5	7.5YR 4/3	100					Silty clay loam
5-12	10YR 5/6	95	10YR 7/3	5	D	М	Silty clay loam
	Concentration, D=Depl	,				0,	RC=Root Channel, M=Matrix.
			y, Loam, Sandy Clay Lo RRs, unless otherwise no		andy Loan	i, Clay Lo	am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand Indicators for Problematic Hydric Soils
Histose Histic I Black I Hydrog Stratifie 1 cm N Deplet Thick I Sandy Sandy		;)	Sandy Redox (S Stripped Matri: Loamy Mucky Depleted Matri Redox Dark S Depleted Dark Redox Depres Vernal Pools (	S5) X (S6) Minera Matriz Matriz X (F3) urface X Surfa Ssions	x (F2) (F6) ce (F7)		<ul> <li>1 cm Muck (A9) (LRR C)</li> <li>2 cm Muck (A10) (LRR B)</li> <li>Reduced Vertic (F18)</li> <li>Red Parent Material (TF2)</li> <li>Other (Explain in Remarks)</li> </ul>
Type: Depth (i	inches):						Hydric Soil Present? Yes 🔿 No 💿
Remarks:							
HYDROL	OGY						
Wetland H	lydrology Indicators:						Secondary Indicators (2 or more required)
Primary Inc	dicators (any one indica	ator is sul	ficient)				Water Marks (B1) (Riverine)
	e Water (A1)		Salt Crust (B	,			Sediment Deposits (B2) ( <b>Riverine</b> )
L ů	Vater Table (A2)		Biotic Crust (	,			Drift Deposits (B3) ( <b>Riverine</b> )
	ation (A3)	,	Aquatic Inver		. ,		Drainage Patterns (B10)
	Marks (B1) (Nonriveri	,	Hydrogen Su			12.22	Dry-Season Water Table (C2)
	ent Deposits (B2) ( <b>Nor</b> eposits (B3) ( <b>Nonriver</b>		) Oxidized Rhi	•	0	0	oots (C3) Thin Muck Surface (C7)

(04)ay (Co)X Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes () No 💿 Depth (inches): No 💿 Water Table Present? Yes 🔿 Depth (inches): Saturation Present? Depth (inches): Yes 🔿 No 💿 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

 $\bigcirc$ 

No

Project/Site: Janus Solar	City/County:Co	lusa County	Sampling Date: 1/18/2021	
Applicant/Owner:RWE Solar Development, LLC		State:CA	Sampling Point:1-4 wet	
Investigator(s): Daniel Berg, Monique O'Conner	Section, Towns	hip, Range:1-3, 25, 26, 29, 30	), 35; 14N, 15N; 3W, 4W	
Landform (hillslope, terrace, etc.): Drainage channel	Local relief (co	ncave, convex, none):None	Slope (%):1	
Subregion (LRR):C - Mediterranean California Lat:Re	efer to Map	Long:Refer to Map	Datum:N/A	
Soil Map Unit Name: Capay clay loam		NWI classifi	cation:R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of y	year?Yes 💿	No (If no, explain in I	Remarks.)	
Are Vegetation X Soil X or Hydrology significant	ly disturbed?	Are "Normal Circumstances"	present? Yes 💿 No 🔿	
Are Vegetation Soil or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map showing	g sampling p	oint locations, transects	s, important features, etc.	
Hydrophytic Vegetation Present? Yes  No				

Hydrophytic Vegetation Present?	Yes 💽	No 🔘			
Hydric Soil Present?	Yes 💿	No 💿	Is the Sampled Area		
Wetland Hydrology Present?	Yes 💿	No 🔘	within a Wetland?	Yes 💿	No 🔿
Remarks: Project site is actively gra	azed by cattle	throughout.			

	Absolute	Dominant		Dominance Test wo	orksheet	t:		
Tree Stratum (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant That Are OBL, FACV				(A)
2.				Total Number of Dor	ninant			
3.				Species Across All S		3		(B)
4.	_			Percent of Dominant	Specie			
Total Cove	r: %			That Are OBL, FACV		-	7 %	(A/B)
Sapling/Shrub Stratum						000	1 /0	(**=)
1.Salix sp.	3	Yes	FACW	Prevalence Index w		et:		
2.				Total % Cover o	f:	Multiply	/ by:	-
3.	_			OBL species	3	x 1 =	3	
4.				FACW species	3	x 2 =	6	
5.				FAC species		x 3 =	0	
Total Cove	r: 3 %			FACU species		x 4 =	0	
Herb Stratum				UPL species	1	x 5 =	5	
<sup>1</sup> . <i>Typha sp.</i>	3	Yes	OBL	Column Totals:	7	(A)	14	(B)
2.Vicia villosa	1	Yes	Not Listed			•		
3.				Prevalence Ind			2.00	
4.				Hydrophytic Vegeta				
5.	_			X Dominance Test				
6.				Prevalence Inde	x is ≤3.0	) <sup>1</sup>		
7				Morphological A				ng
8				Problematic Hyd	drophytic	Vegetation <sup>1</sup>	(Explair	ı)
Woody Vine Stratum	r: 4 %					-		
1.				<sup>1</sup> Indicators of hydric	soil and	l wetland hy	drology	must
2.				be present.				
Total Cove	r: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 96 % % Cover	r of Biotic C	Crust	%		Yes 🖲	No (	)	
Remarks:				- <u>1</u>				

Profile Des	scription: (Describe t	o the depth	needed to docur	nent the in	dicator o	or confiri	n the absence of	indicators.)	
Depth	Matrix			<pre>K Features</pre>					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks	
0-6	Gley 1 3/10Y	100					Clay loam	Muck (30-40%), small rocks	
6-12	2.5Y 4/4	100					Loamy sand	Small rocks	
<sup>1</sup> Type: C=0 <sup>3</sup> Soil Textur Hydric Soil Histoso Histic E Black H X Hydrog Stratifie 1 cm M Deplete	Concentration, D=Deple res: Clay, Silty Clay, Si Indicators: (Applicable	etion, RM=R andy Clay, I a to all LRRs	oam, Sandy Clay	Loam, San noted.) x (S5) atrix (S6) ky Mineral ved Matrix ( atrix (F3) c Surface (F ark Surface	(F1) (F2) F6) ∋ (F7)		C=Root Channel, am, Silty Clay Loan Indicators for 2 cm Muc Reduced Red Pare		
Sandy	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pool		0)		<sup>4</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.		
	Layer (if present):							•	
Type:									
Depth (ii	nches):						Hydric Soil Pr	resent? Yes 💿 🛛 No 🔿	
Remarks:									
HYDROLO	DGY								
Wetland H	ydrology Indicators:						Seconda	ary Indicators (2 or more required)	
Primary Ind	licators (any one indica	tor is sufficie	ent)				X Wat	er Marks (B1) ( <b>Riverine</b> )	
X Surface	e Water (A1)		Salt Crust	(B11)			Sed	liment Deposits (B2) (Riverine)	
High W	/ater Table (A2)		Biotic Crus	st (B12)			Drift	t Deposits (B3) ( <b>Riverine</b> )	
X     Saturation (A3)         Aquatic Invertebrates (B13)					Drai	inage Patterns (B10)			

Saturation Present?	Yes 💿	No 🔿	Depth (inches):	12	
(includes capillary fringe)	<u> </u>	~			Wetland Hydrology Present?

No 🔿

No 💿

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

X Hydrogen Sulfide Odor (C1)

Presence of Reduced Iron (C4)

Other (Explain in Remarks)

Depth (inches):

Depth (inches):

Oxidized Rhizospheres along Living Roots (C3)

1

Recent Iron Reduction in Plowed Soils (C6)

Remarks:

Water Marks (B1) (Nonriverine)

Drift Deposits (B3) (Nonriverine)

Surface Soil Cracks (B6)

Field Observations: Surface Water Present?

Water Table Present?

Water-Stained Leaves (B9)

Sediment Deposits (B2) (Nonriverine)

Inundation Visible on Aerial Imagery (B7)

Yes (

Yes ()

Dry-Season Water Table (C2)

Saturation Visible on Aerial Imagery (C9)

Yes

No 🔿

Thin Muck Surface (C7)

Crayfish Burrows (C8)

Shallow Aquitard (D3)

FAC-Neutral Test (D5)

Project/Site: Janus Solar	City/County:Colusa Co	unty	Sampling Date: 1/19/2021		
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:1-5 wet		
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, Ran	ge:1-3, 25, 26, 29, 30	), 35; 14N, 15N; 3W, 4W		
Landform (hillslope, terrace, etc.): Drainage channel	Local relief (concave, co	onvex, none):None	Slope (%):1		
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:Refer to Map	Datum:N/A		
Soil Map Unit Name: Capay clay loam		NWI classifi	cation:PSSC		
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes 💿 No 🔿	(If no, explain in F	Remarks.)		
Are Vegetation X Soil X or Hydrology sigr	ificantly disturbed? Are "N	Iormal Circumstances"	present? Yes 💿 No 🔿		
Are Vegetation Soil or Hydrology natu	urally problematic? (If nee	eded, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map sh	owing sampling point lo	cations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes 🕥 No	$\overline{\bullet}$				
Hydric Soil Present? Yes O No	Is the Sampled A	Area			
Wetland Hydrology Present? Yes <ul> <li>Yes</li> </ul>	within a Wetland	d? Yes 🔿	No 💿		

Remarks: Project site is actively grazed by cattle throughout.

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: () (A)
2.				 Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4.				
Total Cove	r: %			- Percent of Dominant Species
Sapling/Shrub Stratum	1. %			That Are OBL, FACW, or FAC: 0.0 % (A/B)
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species x 1 = 0
4.		·		FACW species $x 2 = 0$
5.		·		FAC species $x = 0$
Total Cover	r: %			FACU species 3 x 4 = 12
Herb Stratum				UPL species $2 \times 5 = 10$
<sup>1</sup> .Ambrosia psilostachya	3	Yes	FACU	Column Totals: 5 (A) 22 (B)
2. Centaurea solstitialis	2	Yes	Not Listed	
3.				Prevalence Index = $B/A = 4.40$
4.				Hydrophytic Vegetation Indicators:
5.				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)
Total Cover				<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>
Woody Vine Stratum	5 %			
1.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover	r: %			Hydrophytic
% Bare Ground in Herb Stratum 95 % % Cover	r of Biotic C	Crust	%	Vegetation Present? Yes No 💿
Remarks:				1

Profile Des	cription: (Describe to	the de	pth needed to docum	nent the	e indicator	or confirm	m the absence of indicators.)			
Depth	Matrix			Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks			
0-1	10YR 3/2	97	2.5YR 4/8	3	<u>C</u>	<u>M</u>	Loam			
1-16	7.5YR 4/6	97	2.5YR 4/8	3	<u>C</u>	M	Loamy sand			
						·				
17 0 0				2						
	Concentration, D=Deple						RC=Root Channel, M=Matrix. am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.			
	Indicators: (Applicable				anuy Luan	I, Clay Luc	Indicators for Problematic Hydric Soils:			
Histoso			Sandy Redox				1 cm Muck (A9) (LRR C)			
	Epipedon (A2)		Stripped Ma	• •	)		2 cm Muck (A10) ( <b>LRR B</b> )			
	Histic (A3)		Loamy Muck	. ,			Reduced Vertic (F18)			
	en Sulfide (A4)		Loamy Gley				Red Parent Material (TF2)			
	ed Layers (A5) (LRR C)		Depleted Ma				Other (Explain in Remarks)			
	luck (A9) (LRR D)		Redox Dark		,					
	ed Below Dark Surface	(A11)	Depleted Da		. ,					
	Dark Surface (A12)	· /	Redox Depr		. ,					
	Mucky Mineral (S1)		Vernal Pools		( - )		<sup>4</sup> Indicators of hydrophytic vegetation and			
· _ ·	Gleyed Matrix (S4)			- ()			wetland hydrology must be present.			
·	Layer (if present):									
Type:										
Depth (ii	nches):						Hydric Soil Present? Yes 🔿 No 💿			
Remarks:										
HYDROLO										
Wetland Hy	ydrology Indicators:						Secondary Indicators (2 or more required)			
Primary Ind	licators (any one indicat	tor is su	ficient)				Water Marks (B1) ( <b>Riverine</b> )			
Surface	e Water (A1)		Salt Crust (	(B11)			Sediment Deposits (B2) (Riverine)			
📄 High W	/ater Table (A2)		Biotic Crus	t (B12)			Drift Deposits (B3) ( <b>Riverine</b> )			
Saturat	tion (A3)		Aquatic Inv	rertebra	tes (B13)		Drainage Patterns (B10)			
Water I	Water Marks (B1) (Nonriverine)						Dry-Season Water Table (C2)			

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) ( <b>Riverine</b> )
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roo	ots (C3) 🗍 Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils (	C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No 💿	Depth (inches):	
Water Table Present? Yes O No	Depth (inches):	
Saturation Present? Yes No	Depth (inches): Wetla	and Hydrology Present? Yes 💿 No 🔿
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspections),	if available:
Remarks:		

Project/Site: Janus Solar		City/County:Co	lusa County	Sampling Date: 1/19/2021	
Applicant/Owner: RWE Solar Development, L	LC		State:CA	Sampling Point:1-6	wet
Investigator(s): Daniel Berg, Monique O'Con	Section, Towns	ship, Range: 1-3, 25, 26, 29, 3	30, 35; 14N, 15N; 3V	W, 4W	
Landform (hillslope, terrace, etc.): Drainage cha	nnel	Local relief (co	ncave, convex, none):None	Slope	(%):1
Subregion (LRR):C - Mediterranean Californi	fer to Map	Long:Refer to Map	Datum:	N/A	
Soil Map Unit Name: Capay clay loam			NWI class	ification:PSSC	
Are climatic / hydrologic conditions on the site typ	pical for this time of y	vear?Yes 💿	No (If no, explain in	Remarks.)	
Are Vegetation 🗙 Soil 🔀 or Hydrology	significant	y disturbed? Are "Normal Circumstances" present? Yes 💿 1			No 🔿
Are Vegetation Soil or Hydrology	naturally p	roblematic? (If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach si	te map showing	g sampling p	oint locations, transect	s, important feat	ures, etc.
Hydrophytic Vegetation Present? Yes (	No 🕥				
Hydric Soil Present? Ves	No O	la tha S	ampled Area		

Hydric Soil Present?	Yes 💿	No 🔘	Is the Sampled Area			
Wetland Hydrology Present?	Yes 💽	No 🔘	within a Wetland?	Yes	$oldsymbol{eta}$	No 🔿
Remarks: Project site is actively	grazed by cattle	throughout.				

	Absolute		Indicator	Dominance Test wo	orkshee	et:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant That Are OBL, FACV				(A)
2.		·	·		v, 0117	1		(~)
		·	·	- Total Number of Don				-
3				Species Across All S	trata:	1		(B)
4				Percent of Dominant	Specie	S		
Total Cove Sapling/Shrub Stratum	r: %			That Are OBL, FACV	V, or FA	AC: 100.	.0 %	(A/B)
1.				Prevalence Index w	orkshe	et:		
2.		·	·	Total % Cover o	f:	Multiply	by:	
3.				OBL species	5	x 1 =	5	
4.				FACW species		x 2 =	0	
5.				FAC species	1	x 3 =	3	
Total Cove	r: %			FACU species	1	x 4 =	4	
Herb Stratum				UPL species	1	x 5 =	5	
<sup>1</sup> .Typha sp.	5	Yes	OBL	Column Totals:	8	(A)	17	(B)
<sup>2</sup> .Centaurea solstitialis	1	No	Not Listed					
<sup>3</sup> .Xanthium strumarium	1	No	FAC	Prevalence Ind			2.13	
4. Ambrosia psilostachya	1	No	FACU	Hydrophytic Vegeta				
5.		-		X Dominance Test				
6.				Prevalence Inde	x is ≤3.	0 <sup>1</sup>		
7				Morphological A		ons <sup>1</sup> (Provide son a separate s		ng
8				Problematic Hyd				)
Total Cove Woody Vine Stratum	: 8 %					e regetation s	(_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
1.				<sup>1</sup> Indicators of hydric	soil an	d wetland hyd	lrology r	nust
2.				be present.				
Total Cove	r: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 92 % % Cove	r of Biotic C	Crust	%		Yes 🖲	No 🔿		
Remarks:								

Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Type       Loc2       Texture3       Remarks         0-12       7.5YR 3/2       80       2.5YR 4/6       20       C       M       Silty clay loam         0-12       7.5YR 3/2       80       2.5YR 4/6       20       C       M       Silty clay loam         0       1       7.5YR 3/2       80       2.5YR 4/6       20       C       M       Silty clay loam         0       1       7.5YR 3/2       80       2.5YR 4/6       20       C       M       Silty clay loam         1		• •	to the de	-			or confir	rm the absence of indicators.)		
0-12       7.5YR 3/2       80       2.5YR 4/6       20       C       M       Silty clay loam	Depth (inches)	Matrix Color (moist)	%				Loc <sup>2</sup>	- Texture <sup>3</sup> Remarks		
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup> Location: PL=Pore Lining, RC=Root Channel, M=Matrix.         'Soil Textures:       Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt, Loamy Sand, Sandy Clay Loam, Sandy Redox (S5)       Indicators for Problematic Hydric Soils:         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histosol (A2)       Stripped Matrix (S6)       2 cm Muck (A10) (LRR B)         Black Histic (A3)       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)       Other (Explain in Remarks)         2 sandy Mucky Mineral (S1)       Vernal Pools (F9) <sup>4</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:       Depleted for Soil Present? Yes No (										
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:	0.12			2.5 11( 4/0		- <del>C</del>				
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:										
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:			·							
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:										
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:										
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:										
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:		_								
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:										
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sandy Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils.         Histosol (A1)       Sandy Redox (S5)       1 cm Muck (A9) (LRR C)         Histo 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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Hidicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:	<sup>1</sup> Type: C-(	 Concentration_D-Depl	letion RM	– – Reduced Matrix		n: PI –Por	e Linina F			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Afuncicators of hydrophytic vegetation and wetland hydrology must be present.         Sandy Gleyed Matrix (S4)       Vernal Pools (F9)       4Indicators of hydrophytic vegetation and wetland hydrology must be present.         Type:							-			
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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Thick Dark Surface (A12)         Sandy Mucky Mineral (S1)       Vernal Pools (F9) <sup>4</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:								· · ·		
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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Redox Depressions (F8)         Sandy Mucky Mineral (S1)       Vernal Pools (F9) <sup>4</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):         Type:          Depth (inches):       Hydric Soil Present? Yes No ()	Histos	ol (A1)		Sandy Redo	ox (S5)			1 cm Muck (A9) ( <b>LRR C</b> )		
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)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Thick Dark Surface (A12)         Sandy Mucky Mineral (S1)       Vernal Pools (F9) <sup>4</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):         Type:          Depth (inches):       Hydric Soil Present? Yes No ()	Histic I	Epipedon (A2)		Stripped M	atrix (S6)	)				
Stratified Layers (A5) (LRR C)   1 cm Muck (A9) (LRR D)   2 cm Muck (A9) (LRR D)   2 cm Muck (A9) (LRR D)   3 cm Muck (A9) (LRR D)   4 cm Muck (A9) (LRR D)   4 cm Muck (A9) (LRR D)   3 cm Muck (A11)   1 cm Muck (A9) (LRR D)   4 cm Muck (A9) (LRR D)   3 cm Muck (A12)   3 cm Mucky Mineral (S1)   3 cm Mucky Mineral (S1)   3 cm Mucky Gleyed Matrix (S4)		( )								
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)         Sandy Gleyed Matrix (S4)       wetland hydrology must be present.         Restrictive Layer (if present):         Type:		0 ( )		·	•	. ,				
Depleted Below Dark Surface (A11)   Depleted Dark Surface (F7)   Thick Dark Surface (A12)   Redox Depressions (F8)   Sandy Mucky Mineral (S1)   Vernal Pools (F9)   *Indicators of hydrophytic vegetation and wetland hydrology must be present.    Restrictive Layer (if present):  Type:		• • • •	<b>C</b> )	·				Other (Explain in Remarks)		
Thick Dark Surface (A12)       Redox Depressions (F8)         Sandy Mucky Mineral (S1)       Vernal Pools (F9)         Sandy Gleyed Matrix (S4)       wetland hydrology must be present.         Restrictive Layer (if present):       Type:         Depth (inches):       Hydric Soil Present? Yes (No ()		. , . ,	- ( ) ]			( )				
Sandy Mucky Mineral (S1)       Vernal Pools (F9) <sup>4</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.         Restrictive Layer (if present):       Type:       Hydric Soil Present? Yes • No •	· ·		e (A11)			· · ·				
Sandy Gleyed Matrix (S4)     wetland hydrology must be present.       Restrictive Layer (if present):     Type:       Depth (inches):     Hydric Soil Present? Yes • No ^		( )				(ГО)		<sup>4</sup> Indicators of hydrophytic vocatation and		
Restrictive Layer (if present):         Type:         Depth (inches):         Hydric Soil Present? Yes • No •		• • • •			15 (1-9)					
Type:         Hydric Soil Present?         Yes (•)         No (·)										
Depth (inches):     Hydric Soil Present? Yes • No ·										
		inches):						Hydric Soil Present? Yes  No		
	Remarks: V	White crust on chan	nel bank					· 0 0		

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is sufficier	nt)	Water Marks (B1) (Riverine)		
X Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) (Riverine)		
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) ( <b>Riverine</b> )		
X Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)		
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Ro	oots (C3) Thin Muck Surface (C7)		
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils	(C6) Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)		
X Water-Stained Leaves (B9)		FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes  No	O Depth (inches): 4			
Water Table Present? Yes O No	Depth (inches):			
Saturation Present? Yes  No (includes capillary fringe)	O Depth (inches): 12 Wet	tland Hydrology Present? Yes 💿 No 🔿		
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspections)	, if available:		
Remarks:				

Project/Site: Janus Solar		City/County:Co	olusa County	Sampling Date: 1/2	20/2021
Applicant/Owner: RWE Solar Development, LLC	1	_	State:CA	Sampling Point:1-	7 wet
Investigator(s): Daniel Berg, Monique O'Conner		Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3			
Landform (hillslope, terrace, etc.): Drainage channel	el	Local relief (co	oncave, convex, none):None	Slop	e (%):2
Subregion (LRR):C - Mediterranean California	Lat:Ref	er to Map	Long:Refer to Map	Datum	n:N/A
Soil Map Unit Name: Capay clay loam			NWI classi	fication:PSSC	
Are climatic / hydrologic conditions on the site typical	for this time of ye	ear?Yes 💿	No (If no, explain in	Remarks.)	
Are Vegetation $\overline{X}$ Soil $\overline{X}$ or Hydrology $\overline{X}$	significantly	disturbed?	Are "Normal Circumstances	" present? Yes 💽	No 🔿
Are Vegetation Soil or Hydrology	naturally pr	oblematic?	(If needed, explain any answ	vers in Remarks.)	
SUMMARY OF FINDINGS - Attach site	map showing	sampling p	point locations, transect	s, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes (	No 🔘				
Hydric Soil Present? Yes	No 🦳	le the S	Sampled Area		

Hydric Soil Present?	Yes 💽	No (	0	Is the Sampled Area		
Wetland Hydrology Present?	Yes 🜘	No (	0	within a Wetland?	Yes 💿	No 🔿
Remarks: Project site is actively grad	zed by catt	le throug	hout.			

	Absolute	Dominant		Dominance Test v	vorksheet	:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	nt Species	6			
1				That Are OBL, FAC	CW, or FAG	C: 3		(A)	
2.				Total Number of Do	ominant				
3.				Species Across All		4		(B)	
4.									
Total Cove	r: %			<ul> <li>Percent of Dominal That Are OBL, FAC</li> </ul>		-	0 %	(A/B)	
Sapling/Shrub Stratum					, 01170	. 75.	0 70	(/ () D)	
1.Salix sp.	3	Yes	FACW	Prevalence Index	workshee	et:			
2.Populus fremontii	1	Yes	FAC	Total % Cover	of:	Multiply	' by:	-	
3.		·		OBL species	1	x 1 =	1		
4.				FACW species	5	x 2 =	10		
5.		·		FAC species	1	x 3 =	3		
Total Cover	r: 4 %			FACU species		x 4 =	0		
Herb Stratum				UPL species	3	x 5 =	15		
<sup>1</sup> .Centaurea solstitialis	2	Yes	Not Listed	Column Totals:	10	(A)	29	(B)	
2. Juncus sp.	2	Yes	FACW	_	- •				
<sup>3</sup> . Aegilops triuncialis	1	No	Not Listed		Prevalence Index = $B/A = 2.90$				
4. Typha sp.	1	No	OBL	Hydrophytic Vegetation Indicators:					
5.									
6.				Prevalence Inc	dex is ≤3.0	1			
7.				Morphological				ng	
8.						n a separate	,	、 、	
Total Cover	r: 6 %			- X Problematic H	ydrophytic	Vegetation	(Explair	1)	
Woody Vine Stratum	0 /0								
1				<sup>1</sup> Indicators of hydri	ic soil and	wetland hyd	lrology	must	
2				be present.					
Total Cover	r: %			Hydrophytic					
% Bare Ground in Herb Stratum 94 % % Cover	r of Biotic C	Crust	%	Vegetation Present?	Yes 🖲	No 🔿			
Remarks: Feature is significantly grazed/disturbed of	or wetland	l vegetatio	on would li	ikely be more prom	inent.				

Profile Des	cription: (Describe t	to the de	pth needed to docur	nent the	e indicator	or confir	m the absence of	indicators.)				
Depth	Matrix			Featur	es							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Rei	narks			
0-1	Gley 1 2.5/10Y	_100					Silty clay loam	Silty clay loam Muck				
1-10	10YR 4/4	85	2.5YR 3/6	15	С	М	Loam	Rocks present				
						·	·					
							·					
						·	·					
	Concentration, D=Depl	-					RC=Root Channel,					
	es: Clay, Silty Clay, S				•	n, Clay Lo						
-	Indicators: (Applicable	e to all LF						Problematic Hydric	Soils:			
Histoso	( )		Sandy Redo	• •				1 cm Muck (A9) (LRR C)				
	Epipedon (A2) Histic (A3)		Stripped Ma	. ,			2 cm Muck (A10) (LRR B) Reduced Vertic (F18)					
	jen Sulfide (A4)		Loamy Gley		. ,							
	,	•	Depleted M		. ,			<ul><li>Red Parent Material (TF2)</li><li>Other (Explain in Remarks)</li></ul>				
	ed Layers (A5) ( <b>LRR C</b> luck (A9) ( <b>LRR D</b> )	•)	Redox Dark		,							
	ed Below Dark Surface	(411)	Depleted Da		. ,							
	Dark Surface (A12)	, (411)	Redox Depi		, ,							
	Mucky Mineral (S1)		Vernal Pool		(10)		<sup>4</sup> Indicators of	hydrophytic vegetati	on and			
	Gleyed Matrix (S4)		Ventarioo	5 (1 5)				drology must be pre				
	Layer (if present):											
Type:Rc												
	nches):1()						Hydric Soil Pr	esent? Yes 🖲	No			
Remarks: T	Directly below a cul	vert rin	ran/fill is present in	low a	uantity			$\cup$	$\sim$			
	Jireetry below a car	ven, np	rup/min is present in	11010 9	uantity.							

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)			
X Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) ( <b>Riverine</b> )			
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) ( <b>Riverine</b> )			
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)			
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C	3) Thin Muck Surface (C7)			
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)			
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils (C6)	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes   No	Depth (inches): 6				
Water Table Present? Yes O No 💿	Depth (inches):				
Saturation Present? Yes  No	Depth (inches): 10				
(includes capillary fringe)		Hydrology Present? Yes   No			
Describe Recorded Data (stream gauge, monitorin	g weir, aenai protos, previous inspections), il ava	aliable.			
Remarks:					

Project/Site: Janus Solar	City/County:Colu	isa County	Sampling Date: 1/20/2021		
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:1-8 wet		
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W				
Landform (hillslope, terrace, etc.): Drainage channel	Local relief (cond	cave, convex, none): None	Slope (%):2		
Subregion (LRR):C - Mediterranean California	at:Refer to Map	Long:Refer to Map	Datum:N/A		
Soil Map Unit Name: Capay clay loam		NWI classifi	cation:PSSC		
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes 💿	No (If no, explain in F	Remarks.)		
Are Vegetation $\boxed{X}$ Soil $\boxed{X}$ or Hydrology $\boxed{X}$ signifi	icantly disturbed?	Are "Normal Circumstances"	present? Yes 💿 No 🔿		
Are Vegetation Soil or Hydrology nature	ally problematic?	(If needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map sho	wing sampling po	int locations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes  No		malad Area			

Hydric Soil Present?	Yes 🕡	No 🔘	Is the Sampled Area							
Wetland Hydrology Present?	Yes 💿	No 🔘	within a Wetland?	Yes 💿	No 🔿					
Remarks: Project site is actively gra	Remarks: Project site is actively grazed by cattle throughout.									

	Absolute	Dominant		Dominance Test v	vorksheet	:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina				
1				That Are OBL, FAC	CW, or FA	C:	3	(A)
2				Total Number of Do	ominant			
3				Species Across All	Strata:		5	(B)
4				Percent of Domina	nt Species			
Total Cove	r: %			That Are OBL, FAC		-	0.0 %	(A/B)
1.Salix sp.	5	Yes	FACW	Prevalence Index	workshee	et:		
2.Populus fremontii	$-\frac{3}{2}$	Yes	FAC	Total % Cover	of:	Multip	ly by:	
3.		103		OBL species		x 1 =	0	
4.		·		FACW species	6	x 2 =	12	
5.		·		FAC species	2	x 3 =	6	
Total Cover	7 %	·		FACU species	2	x 4 =	0	
Herb Stratum	- / /0			UPL species	3	x 5 =	15	
<sup>1</sup> .Centaurea solstitialis	2	Yes	Not Listed	Column Totals:	2	(A)	33	(B)
2. Juncus sp.	1	Yes	FACW		11	(A)	55	(D)
<sup>3</sup> .Aegilops triuncialis	1	Yes	Not Listed	Prevalence Ir	ndex = B/	۹ =	3.00	
4.	· · ·			Hydrophytic Vege	tation Inc	licators:		
5.				🖌 🗙 Dominance Te	st is >50%	, D		
6.				× Prevalence Inc	dex is ≤3.0	1		
7.				Morphological				ng
8.				data in Rem			,	
Total Cover	4 %			- X Problematic Hy	ydrophytic	Vegetation	i' (Explair	1)
Woody Vine Stratum	- <b>T</b> /0							
1				<ul> <li><sup>1</sup>Indicators of hydri</li> <li>be present.</li> </ul>	ic soil and	wetland h	ydrology	must
2								
Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 96 % % Cover	of Biotic C	Crust	%	Present?	Yes 💿	No (	$\supset$	
Remarks: Feature is significantly grazed/disturbed of	or wetland	d vegetatio	on would li	kely be more prom	inent.			

Profile Des	cription: (Describe to	o the de	nth needed to docur	nent the	indicator	or confiru	m the abs	ence of i	indicators )		
Depth	Matrix			x Feature			in the upe				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	ıre <sup>3</sup>	Remarks		
0-0.5	10YR 3/3	100					Loam		Mucky		
0.5-16	10YR 3/6	90	2.5YR 3/6	10	C	M	Loamy sa	and			
	Concentration, D=Deple				on: PL=Por						
					andy Loam	n, Clay Loa			n, Silt Loam, Silt, Loamy Sand, Sand.		
	Indicators: (Applicable	e to all LF	·						Problematic Hydric Soils:		
Histoso			Sandy Redo						k (A9) ( <b>LRR C</b> ) k (A10) ( <b>LRR B</b> )		
	Epipedon (A2) Histic (A3)		Stripped Ma								
	jen Sulfide (A4)		Loamy Gley	•	. ,			Reduced Vertic (F18) Red Parent Material (TF2)			
	ed Layers (A5) (LRR C	)	Depleted M						plain in Remarks)		
	luck (A9) (LRR D)	, ,	Redox Dark	Surface	e (F6)						
Deplete	ed Below Dark Surface	(A11)	Depleted D	ark Surfa	ace (F7)						
	Dark Surface (A12)		🗙 Redox Dep		(F8)						
	Mucky Mineral (S1)		Vernal Pool	s (F9)					hydrophytic vegetation and		
	Gleyed Matrix (S4)						W	etiand hyd	drology must be present.		
	Layer (if present):										
Type:	<b>h</b> ) -						L be also				
Depth (ir	·		/(*11 :	1		<u> </u>	-	Soil Pre	0 0		
	•	-	· ·	-	•		•		e developed without cattle		
-	vident surrounding		• •			on enther	side of s	ampie po	bint. A depression feature is		
	vident surrounding	une sam	pie point within the	- chann							
HYDROLO	DGY										
Wetland Hy	ydrology Indicators:							Secondar	y Indicators (2 or more required)		
-	licators (any one indica	tor is suf	ficient)					X Wate	er Marks (B1) ( <b>Riverine</b> )		
Surface	e Water (A1)		Salt Crust	(B11)					ment Deposits (B2) ( <b>Riverine</b> )		
	/ater Table (A2)		Biotic Crus						Deposits (B3) ( <b>Riverine</b> )		
X Saturat	tion (A3)		Aquatic In	. ,	tes (B13)				nage Patterns (B10)		
	Marks (B1) (Nonriverir	ne)	Hydrogen	Sulfide (	Odor (C1)			Dry-S	Season Water Table (C2)		
Sedime	ent Deposits (B2) (Non	riverine)	Oxidized F	Rhizosph	eres along	Living Ro	ots (C3)	Thin	Muck Surface (C7)		
Drift De	eposits (B3) ( <b>Nonriveri</b>	ne)	Presence	of Reduc	ced Iron (C	4)		Cray	fish Burrows (C8)		
Surface	e Soil Cracks (B6)		Recent Iro	n Reduc	tion in Plov	wed Soils (	(C6)	Satur	ration Visible on Aerial Imagery (C9)		
Inundat	tion Visible on Aerial In	nagery (E	37) 🗌 Other (Exp	olain in F	Remarks)			Shall	ow Aquitard (D3)		
Water-	Stained Leaves (B9)							FAC-	Neutral Test (D5)		

Water-Stained Leaves (B	39)			FAC-Neutral Test (D5)					
Field Observations:									
Surface Water Present?	Yes 🔿	No 💿	Depth (inches):						
Water Table Present?	Yes 💽	No 🔿	Depth (inches):	14					
Saturation Present? (includes capillary fringe)	Yes 💿	No 🔿	Depth (inches):	14	Wetland Hydrology Present?	Yes	$oldsymbol{O}$	No	0
Describe Recorded Data (str	eam gauge,	monitoring	well, aerial photos,	previous inspec	tions), if available:				
Remarks:									

Project/Site: Janus Solar	y/County:Colus	a County	Sampling Date: ]	1/20/2021	
Applicant/Owner: RWE Solar Development, LLC	2		State:CA	Sampling Point:	I-9 wet
Investigator(s): Daniel Berg, Monique O'Conner	Se	Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3V			
Landform (hillslope, terrace, etc.): Drainage channel	el Lo	cal relief (conca	ive, convex, none):None	Slo	ope (%):2
Subregion (LRR):C - Mediterranean California	Lat:Refer t	o Map	Long:Refer to Map	Datu	ım:N/A
Soil Map Unit Name: Capay clay loam			NWI classi	fication:PSSC	
Are climatic / hydrologic conditions on the site typica	I for this time of year?	Yes 💿 🛛 N	lo 🔿 (If no, explain in	Remarks.)	
Are Vegetation X Soil X or Hydrology X	significantly dis	turbed?	Are "Normal Circumstances"	" present? Yes 💽	No 🔿
Are Vegetation Soil or Hydrology	naturally proble	ematic? (	If needed, explain any answ	vers in Remarks.)	
SUMMARY OF FINDINGS - Attach site	map showing sa	mpling poir	nt locations, transect	s, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes 💿	No 🔘				
Hydric Soil Present? Yes	No 🦳	Is the Same	plad Araa		

Hydric Soil Present?	Yes 🕡	No 🔘	Is the Sampled Area					
Wetland Hydrology Present?	Yes 💿	No 🔘	within a Wetland?	Yes 💿	No 🔿			
Remarks:Project site is actively grazed by cattle throughout.								

	Absolute	Dominant		Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominar	nt Species	S		
1				That Are OBL, FAC	W, or FA	C: 3		(A)
2.				Total Number of Do	minant			
3.				Species Across All S		4		(B)
4.								
Total Cove	r: %			<ul> <li>Percent of Dominan</li> <li>That Are OBL, FAC</li> </ul>		-	0 %	(A/B)
Sapling/Shrub Stratum	,.				w, or 170	0. 75.	0 %	(7,0)
1.Salix sp.	3	Yes	FACW	Prevalence Index v		et:		
2.Populus fremontii	1	Yes	FAC	Total % Cover of: Multiply by:			-	
3.		·		OBL species	1	x 1 =	1	
4.				FACW species	5	x 2 =	10	
5.				FAC species	1	x 3 =	3	
Total Cover	r: 4 %			FACU species		x 4 =	0	
Herb Stratum				UPL species	3	x 5 =	15	
<sup>1</sup> .Centaurea solstitialis	2	Yes	Not Listed	Column Totals:	10	(A)	29	(B)
2. Juncus sp.	2	Yes	FACW		10	(,,)	2)	• • •
<sup>3</sup> . Aegilops triuncialis	1	No	Not Listed	Prevalence Inc	dex = B/A	A =	2.90	
4. Typha sp.	1	No	OBL	Hydrophytic Veget	ation Inc	licators:		
5.		·		X Dominance Tes	st is >50%	0		
6.		·		X Prevalence Inde	ex is ≤3.0	) <sup>1</sup>		
7.				Morphological A				ng
8.						n a separate	,	
Total Cover	r: 6 %	·		- X Problematic Hy	drophytic	Vegetation <sup>1</sup>	(Explain	)
Woody Vine Stratum	0 %							
1.				<sup>1</sup> Indicators of hydric	soil and	I wetland hyd	Irology i	must
2.				be present.				
Total Cover	r: %			Hydrophytic				
% Bare Ground in Herb Stratum 94 % % Cover	r of Biotic C	ruct	0/	Vegetation Present?	Yes 💿			
			<u>%</u>		$\sim$	No 🔿		
Remarks: Feature is significantly grazed/disturbed of	or wetland	d vegetatio	on would li	kely be more promi	nent.			

Profile Des	scription: (Describe t	o the de	pth needed to document the indicator or confi	rm the absence of	indicators.)			
Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks			
0-1	Gley 1 2.5/10Y	100		Silty clay loam	Muck			
1-6	10YR 4/4	85	2.5YR 3/6 15 C M	Loam	Rocks present			
	Concentration, D=Depl		0					
<sup>3</sup> Soil Textu	res: Clay, Silty Clay, S	andy Cla	y, Loam, Sandy Clay Loam, Sandy Loam, Clay Lo					
		e to all LF	Rs, unless otherwise noted.)		Problematic Hydric Soils <sup>4</sup>			
Histos	( )		Sandy Redox (S5)		ck (A9) ( <b>LRR C</b> )			
	Epipedon (A2)		Stripped Matrix (S6)		ck (A10) ( <b>LRR B</b> )			
	Histic (A3)		Loamy Mucky Mineral (F1)	Reduced Vertic (F18)				
	gen Sulfide (A4)	•	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)				
	ed Layers (A5) (LRR C	.)	Depleted Matrix (F3) Redox Dark Surface (F6)	Other (Explain in Remarks)				
	/luck (A9) ( <b>LRR D</b> ) ed Below Dark Surface	(Δ11)	Depleted Dark Surface (F7)					
	Dark Surface (A12)	; (ATT)	Redox Depressions (F8)					
	Mucky Mineral (S1)		Vernal Pools (F9)	<sup>4</sup> Indicators of	hydrophytic vegetation and			
	Gleyed Matrix (S4)				/drology must be present.			
	E Layer (if present):							
Type:Re								
Depth (i	nches):6			Hydric Soil P	resent? Yes 💿 No 🔿			
Remarks: ]	Directly below a cul	vert, rip	rap/fill is present in low quantity.					
	•	. 1						

#### HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		X Water Marks (B1) (Riverine)
X Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) ( <b>Riverine</b> )
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) ( <b>Nonriverine</b> )	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	—	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes  No	Depth (inches): 6	
Water Table Present? Yes O No	Depth (inches):	
Saturation Present? Yes  No (	Depth (inches): 6	
(includes capillary fringe)		drology Present? Yes   No
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if availa	ible:
Remarks:		

Project/Site: Janus Solar	City/County:Co	City/County:Colusa County			Sampling Date: 1/20/2021		
Applicant/Owner: RWE Solar Development, I	LLC		State:CA	A Samplin	g Point:1-1	0 wet	
Investigator(s): Daniel Berg, Monique O'Con	ner	Section, Towns	ship, Range:1-3, 25, 26	5, 29, 30, 35; 141	N, 15N; 3	W, 4W	
Landform (hillslope, terrace, etc.): Drainage cha	annel	Local relief (concave, convex, none): None Slo			Slope	(%):1	
Subregion (LRR):C - Mediterranean Californ	iaLat:Re	fer to Map	Long:Refer to	о Мар	Datum:	N/A	
Soil Map Unit Name: Capay clay loam		NWI classification:R4SBA					
Are climatic / hydrologic conditions on the site ty	pical for this time of y	vear?Yes 💿	No (If no, ex	plain in Remarks.)			
Are Vegetation 🗙 Soil 🔀 or Hydrology	× significant	ly disturbed?	Are "Normal Circums	stances" present?	Yes 💽	No 🔿	
Are Vegetation Soil or Hydrology	naturally p	roblematic?	(If needed, explain a	ny answers in Rem	narks.)		
SUMMARY OF FINDINGS - Attach s	ite map showing	g sampling p	oint locations, tra	nsects, impor	tant feat	ures, etc.	
Hydrophytic Vegetation Present? Yes	No 💿						
Hydric Soil Present? Yes	No 💿	Is the S	ampled Area				

Hydric Soil Present?	Yes 🍥	No 💽	Is the Sampled Area				
Wetland Hydrology Present?	Yes 💽	No 💿	within a Wetland?	Yes	0	No 💿	
Remarks: Project site is actively grazed by cattle throughout.							

	Absolute		Indicator	Dominance Test worksheet:				
Tree Stratum (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)				
2.				Total Number of Dominant				
3.				Species Across All Strata: 5 (B)				
4.				<ul> <li>Percent of Dominant Species</li> </ul>				
Total Cover Sapling/Shrub Stratum	r: %			That Are OBL, FACW, or FAC: 0.0 % (A/B)				
1.				Prevalence Index worksheet:				
2.	·	·		Total % Cover of: Multiply by:				
3.				OBL species x 1 = 0				
4.				FACW species x 2 = 0				
5.				FAC species x 3 = 0				
Total Cover	: %			FACU species 1 x 4 = 4				
Herb Stratum				UPL species $4 \times 5 = 20$				
1.Vicia villosa	1	Yes	Not Listed	Column Totals: 5 (A) 24 (B)				
2. Centaurea solstitialis	1	Yes	Not Listed					
<sup>3</sup> .Medicago polymorpha	1	Yes	FACU	Prevalence Index = B/A = 4.80				
4. Avena sp.	1	Yes	UPL	Hydrophytic Vegetation Indicators:				
5. Aegilops triuncialis	1	Yes	Not Listed	Dominance Test is >50%				
6.				Prevalence Index is ≤3.0 <sup>1</sup>				
7.				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
8.				- Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
Total Cover	5 %							
Woody Vine Stratum				<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
1				be present.				
2				-				
Total Cover	: %			Hydrophytic Vegetation				
	of Biotic C	Crust	%	Present? Yes No •				
Remarks:								

Profile Des	scription: (Describe to	o the de	pth needed to docume	nt the	indicator	or confirm	m the absence of indicators.)	-
Depth	Matrix		Redox F			1 2	- Technol 3 - Descenter	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks	
0-2	<u>7.5YR 4/6</u>	98	2.5YR 3/6	1	C	M		
			<u>10YR 8/1</u>	1	<u>D</u>	<u>M</u>		
2-16	7.5YR 4/6	100					Sand	
<sup>1</sup> Type: C=	Concentration, D=Deple	tion, RM	I=Reduced Matrix. <sup>2</sup> L	ocatio	n: PL=Por	e Lining, R	RC=Root Channel, M=Matrix.	
<sup>3</sup> Soil Textu	res: Clay, Silty Clay, Sa	andy Cla				-	am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sa	and.
Hydric Soil	Indicators: (Applicable	to all LF	RRs, unless otherwise no	oted.)			Indicators for Problematic Hydric Soils:	
Histos	ol (A1)		Sandy Redox (	S5)			1 cm Muck (A9) (LRR C)	
Histic I	Epipedon (A2)		Stripped Matri	x (S6)			2 cm Muck (A10) ( <b>LRR B</b> )	
Black Histic (A3) Loamy Mucky Mineral (F1)							Reduced Vertic (F18)	
Hydrog	gen Sulfide (A4)		Loamy Gleyed	d Matrix	x (F2)		Red Parent Material (TF2)	
Stratifi	ed Layers (A5) (LRR C)		Depleted Matr	ix (F3)			Other (Explain in Remarks)	
1 cm N	/luck (A9) ( <b>LRR D</b> )		Redox Dark S	urface	(F6)			
Deplet	ed Below Dark Surface	(A11)	Depleted Dark	s Surfa	ce (F7)			
Thick I	Dark Surface (A12)		Redox Depres	sions	(F8)			
Sandy	Mucky Mineral (S1)		Vernal Pools (	F9)			<sup>4</sup> Indicators of hydrophytic vegetation and	
	Gleyed Matrix (S4)						wetland hydrology must be present.	
Restrictive	e Layer (if present):							
Type:								
Depth (i	inches):						Hydric Soil Present? Yes No 💿	
Remarks:								
HYDROL	OGY							
Wetland H	ydrology Indicators:						Secondary Indicators (2 or more required)	
	dicators (any one indicat	tor is suf	ficient)				Water Marks (B1) (Riverine)	
Surfac	e Water (A1)		Salt Crust (B	11)			Sediment Deposits (B2) ( <b>Riverine</b> )	
High V	Vater Table (A2)		Biotic Crust (	(B12)			Drift Deposits (B3) ( <b>Riverine</b> )	
Satura	tion (A3)		Aquatic Inve	rtebrate	es (B13)		Drainage Patterns (B10)	
Water	Marks (B1) (Nonriverin	e)	Hydrogen Su	ulfide C	Odor (C1)		Dry-Season Water Table (C2)	
	ent Deposits (B2) (Noni	,			. ,	Livina Ro		
	eposits (B3) ( <b>Nonriveri</b>		Presence of		-	-	Crayfish Burrows (C8)	

Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes () No 💿 Depth (inches): No 💿 Water Table Present? Yes () Depth (inches): Saturation Present? Depth (inches): No 💿 Yes ( Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

 $\bigcirc$ 

No

Project/Site: Janus Solar	Ci	_ City/County:Colusa County			Sampling Date: 1/19/2021		
Applicant/Owner: RWE Solar Development, LLC			Sta	ate:CA	Sampling Point:2-1 w	et	
Investigator(s): Daniel Berg, Monique O'Conner	S	Section, Township, Range:1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W					
Landform (hillslope, terrace, etc.): Plain	L	Local relief (concave, convex, none):None			Slope (%):1		
Subregion (LRR):C - Mediterranean California	Lat:Refer	to Map	Long:Re	efer to Map	Datum:N/	A	
Soil Map Unit Name: Capay clay loam				NWI classifi	cation:None		
Are climatic / hydrologic conditions on the site typical for	or this time of year	?Yes 💽	No 🔿 (If	no, explain in F	Remarks.)		
Are Vegetation X Soil X or Hydrology X	significantly di	sturbed?	Are "Normal C	ircumstances"	present? Yes 💿	No 🔿	
Are Vegetation Soil or Hydrology	naturally probl	ematic?	(If needed, exp	blain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site ma	ap showing s	ampling p	oint locations	s, transects	, important feature	es, etc.	
Hydrophytic Vegetation Present? Yes	No 💿						
Hydric Soil Present? Yes	No 💿	Is the S	Sampled Area				
Wetland Hydrology Present? Yes 💽	No 🕥	within	a Wetland?	Yes 🔿	No 💿		

Remarks: Project site is actively grazed by cattle throughout.

	Absolute	Dominant		Dominance Test workshee	et:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Specie	es			
1				That Are OBL, FACW, or FA	AC: 0		(A)	
2.				Total Number of Dominant				
3.				Species Across All Strata:	2		(B)	
4.				- Demonst of Deminent Creek				
Total Cove	r: %			<ul> <li>Percent of Dominant Specie</li> <li>That Are OBL, FACW, or FA</li> </ul>		0/2	(A/B)	
Sapling/Shrub Stratum					0.0	70	(,,,,,,)	
1.				Prevalence Index workshe	et:			
2.				Total % Cover of:	Multiply	by:	-	
3.				OBL species	x 1 =	0		
4.				FACW species	x 2 =	0		
5.		·		FAC species	x 3 =	0		
Total Cover	r: %			FACU species	x 4 =	0		
Herb Stratum				UPL species 60	x 5 =	300		
<sup>1</sup> .Aegilops triuncialis	30	Yes	Not Listed	Column Totals: 60	(A)	300	(B)	
2. Centaurea solstitialis	30	Yes	Not Listed				. ,	
3.				Prevalence Index = $B/A = 5.00$				
4.				Hydrophytic Vegetation Indicators:				
5.		·		Dominance Test is >50	%			
6.				Prevalence Index is ≤3.	0 <sup>1</sup>			
7.		·		Morphological Adaptatio			ng	
8.				data in Remarks or d		,		
Total Cover	r: 60 %			- Problematic Hydrophyti	c Vegetation <sup>1</sup> (	Explain	ı)	
Woody Vine Stratum	00 %							
1.				<sup>1</sup> Indicators of hydric soil an	d wetland hyd	rology i	must	
2.				be present.				
Total Cover	r: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 40 % % Cover	r of Biotic C	Crust	%	Present? Yes	No 💿			
Remarks:				-				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)         Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Type1       Loc2       Texture3       Remarks         0-10       10.5YR 3/2       100	Profile Des	scription: (Describe to t	he depth n	eeded to docur	nent the	indicator	or confirm	the abs	sence of i	ndicato	ors.)	
(inches)       Color (moist)       %       Type1       Loc2       Texture3       Remarks         0-10       10.5YR 3/2       100       Silty clay loam       Silty clay loam												
			% 0				Loc <sup>2</sup>	Textu	ure <sup>3</sup>		Rema	rks
10-16         10.5YR 3/2         97         5YR 4/6         3         C         M         Silty clay loam	0-10	10.5YR 3/2	100				5	Silty clay	loam			
	10-16	10.5YR 3/2	97 <u>5</u> YF	₹ 4/6	3	C	M	Silty clay	loam			
								~				
					·							
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup> Location: PL=Pore Lining, RC=Root Channel, M=Matrix.	<sup>1</sup> Type: C=(	 Concentration. D=Depletic	on. RM=Red	duced Matrix.	<sup>2</sup> Locatio	n: PI =Por	e Lining, RC	C=Root (	Channel, I	M=Matri	X.	
<sup>3</sup> Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.												ny Sand, Sand.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:						-						
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C)				Sandy Redo	x (S5)			1	cm Mucl	k (A9) ( <b>L</b>	.RR 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)									Jinei (⊏x	Diain in F	(emarks)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)			.11)			( )						
Thick Dark Surface (A12)			,			( )						
Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup> Indicators of hydrophytic vegetation and	Sandy	Mucky Mineral (S1)		Vernal Pool	s (F9)			<sup>4</sup> Indic	ators of h	iydrophy	tic vegetation	and
Sandy Gleyed Matrix (S4) wetland hydrology must be present.	Sandy	Gleyed Matrix (S4)						W	etland hyd	drology r	must be prese	nt.
Restrictive Layer (if present):	Restrictive	E Layer (if present):										
Туре:	Type:											
Depth (inches):     Hydric Soil Present?     Yes ()     No ()	Depth (ir	nches):						Hydri	c Soil Pre	esent?	Yes 🔿	No 💽
Remarks:	Remarks:							•				
		201/										
HYDROLOGY												
Wetland Hydrology Indicators:         Secondary Indicators (2 or more required)	-									,		<u>,</u>
Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine)			is sufficien	,							. , .	,
Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine)		( )			` '							,
High Water Table (A2)       Biotic Crust (B12)       Drift Deposits (B3) (Riverine)	L °	( )			` '							1e)
Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10)						. ,				-		
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)		. , . , ,				. ,						52)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7)						-	•	ts (C3)				
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8)			)			`	,	<b>(</b> )			( )	
X       Surface Soil Cracks (B6)       Recent Iron Reduction in Plowed Soils (C6)       Saturation Visible on Aerial Imagery (C9)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Shallow Aquitard (D3)		· · ,	nony (P7)				wea Solis (C	<i>(</i> 0)				magery (C9)

Inundation Visible on Aer	ial Imagery (	(B7) 🗙	Other (Explain in Remarks)	Shallow Aquitard (D3)	
Water-Stained Leaves (B	9)			FAC-Neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes 🔿	No 💽	Depth (inches):		
Water Table Present?	Yes 🔿	No 💿	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes 🔿	No 💿	Depth (inches):	Wetland Hydrology Present? Yes   No	0
Describe Recorded Data (stre	am gauge, i	monitoring	well, aerial photos, previous inspec	tions), if available:	
Remarks:No defined bed ar	nd bank bu	t severely	trampled by cows.		

Project/Site: Janus Solar	City/Count	y:Colusa County	Samplin	Sampling Date: 1/19/2021		
Applicant/Owner: RWE Solar Development, LLC		State:C	A Samplin	g Point:3-1 up		
Investigator(s): Daniel Berg, Monique O'Conner	Section, T	ownship, Range: 1-3, 25, 2	6, 29, 30, 35; 141	N, 15N; 3W, 4W		
Landform (hillslope, terrace, etc.): Plain	Local relie	ef (concave, convex, none):]	None	Slope (%):()		
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:Refer t	o Map	Datum:N/A		
Soil Map Unit Name: Capay/Corning clay loam		NV	VI classification:No	ne		
Are climatic / hydrologic conditions on the site typical for thi	s time of year? Yes	No (If no, ex	kplain in Remarks.)			
Are Vegetation X Soil X or Hydrology	significantly disturbed?	Are "Normal Circum	stances" present?	Yes 💿 No 🔿		
Are Vegetation Soil or Hydrology r	naturally problematic?	(If needed, explain a	any answers in Ren	narks.)		
SUMMARY OF FINDINGS - Attach site map	showing samplin	ng point locations, tra	insects, impor	tant features, etc.		
Hydrophytic Vegetation Present? Yes 🔘 N	lo 💽					
Hydric Soil Present? Yes N	lo 💽 ls t	he Sampled Area				
Wetland Hydrology Present? Yes 🕥 N	lo 💿 🛛 🛛 wit	hin a Wetland?	Yes 🔿 No			

Remarks: Project site is actively grazed by cattle throughout.

	Absolute	Dominant		Dominance Test wor	rksheet	:		
Tree Stratum (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant That Are OBL, FACW				(A)
2.				Total Number of Dominant				
3.				Species Across All Strata: 2 (I				(B)
4.				Borcont of Dominant 9	Spacias			
Total Cove	r: %			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0			%	(A/B)
1.				Prevalence Index wo	orkshee	t:		
2.		·		Total % Cover of:	:	Multiply	by:	_
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5				FAC species		x 3 =	0	
Total Cover	r: %			FACU species	15	x 4 =	60	
Herb Stratum	,.			UPL species	15	x 5 =	75	
<sup>1</sup> .Erodium sp.	15	Yes	FACU	Column Totals:	30	(A)	135	(B)
2. Centaurea solstitialis	10	Yes	Not Listed					
3. Non-native grass	5	No	Not Listed	Prevalence Inde			4.50	
4.				Hydrophytic Vegetat				
5.				Dominance Test				
6.				Prevalence Index				
7.				Morphological Ad data in Remar				ng
8.				- Problematic Hydr			,	
Total Cover	r: 30 %				opriyuc	vegetation (	слріан	)
Woody Vine Stratum				1 matter to up of hundring	اممد الم	المناط المعام المعام		
1				<sup>1</sup> Indicators of hydric s be present.	soli and	wetland hyd	ology I	nust
2				-				
Total Cover	r: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 70 % % Cover of Biotic Crust 0 % Present? Yes No •								
Remarks:								

		the depth		<b>nent the i</b> k Features		or confirr	n the absence of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	% realures	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks	
0-6	7.5YR 3/2	100					Silty clay loam	
				· ·				
•••	oncentration, D=Deplet es: Clay, Silty Clay, Sar						C=Root Channel, M=Matrix. m, Silty Clay Loam, Silt Loam, Silt, Loamy Sand	d, Sand.
Hydric Soil I	ndicators: (Applicable	o all LRRs	, unless otherwise	noted.)			Indicators for Problematic Hydric Soils	
	pipedon (A2)		Sandy Redo	atrix (S6)			1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)	
	istic (A3) en Sulfide (A4)		Loamy Muc		, ,		Reduced Vertic (F18) Red Parent Material (TF2)	
	d Layers (A5) (LRR C)		Depleted M		(Г2)		Other (Explain in Remarks)	
	uck (A9) (LRR D)		Redox Dark		(F6)			
	d Below Dark Surface (	A11)	Depleted D		. ,			
Thick D	ark Surface (A12)		Redox Dep	ressions (	F8)			
	/lucky Mineral (S1)		Vernal Pool	s (F9)			<sup>4</sup> Indicators of hydrophytic vegetation and	
	Gleyed Matrix (S4)						wetland hydrology must be present.	
	Layer (if present):							
Type:Co	mpacted soil							
Depth (in	ches):6						Hydric Soil Present? Yes No (	$   \mathbf{O} $
Remarks:								
HYDROLO								
Wetland Hy	drology Indicators:						Secondary Indicators (2 or more required)	red)
Primary Indi	cators (any one indicato	or is sufficie	ent)				Water Marks (B1) ( <b>Riverine</b> )	
Surface	Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Riverine	e)
High Wa	ater Table (A2)		Biotic Crus	· · ·			Drift Deposits (B3) (Riverine)	
Saturati			Aquatic In	vertebrate	s (B13)		Drainage Patterns (B10)	
	larks (B1) ( <b>Nonriverine</b>	,	Hydrogen		. ,		Dry-Season Water Table (C2)	
	nt Deposits (B2) ( <b>Nonri</b>	,			-	-		
	posits (B3) ( <b>Nonriverin</b>	<b>e</b> )	Presence		`	,	Crayfish Burrows (C8)	
	Soil Cracks (B6)		Recent Iro			red Soils (		ery (C9)
	on Visible on Aerial Ima	agery (B7)	Other (Exp	plain in Re	emarks)		Shallow Aquitard (D3)	
Water-S	Stained Leaves (B9)						FAC-Neutral Test (D5)	

Surface Water Present? Yes 🔿 No 💿 Depth (inches): Water Table Present? Yes 🔿 No 💿 Depth (inches): Saturation Present? Depth (inches): No 💿 Yes 🔿 Wetland Hydrology Present? Yes No (includes capillary fringe) C Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Janus Solar		City	//County:Colu	sa County	Sampling Date: 1/19/2021		
Applicant/Owner: RWE Solar Developme	ent, LLC			Sta	te:CA	Sampling Point:3-1	wet
Investigator(s): Daniel Berg, Monique O	'Conner	Sec	ction, Townshi	p, Range:1-3, 2	5, 26, 29, 30	, 35; 14N, 15N <mark>; 3</mark>	W, 4W
Landform (hillslope, terrace, etc.): Drainag	e channel	Loc	Local relief (concave, convex, none):None				e (%):1
Subregion (LRR): C - Mediterranean Cali	ifornia	Lat:Refer to	o Map	Long:Re	fer to Map	Datum	N/A
Soil Map Unit Name: Capay/Corning clay	y loam				NWI classific	ation:R4SBC	
Are climatic / hydrologic conditions on the s	ite typical fo	r this time of year?	Yes 💽	No 🔿 (lf r	io, explain in R	emarks.)	
Are Vegetation X Soil X or Hydro	ology 🗙	significantly dist	turbed?	Are "Normal Cir	cumstances" p	oresent? Yes 💿	No 🔿
Are Vegetation Soil or Hydro	ology	naturally proble	matic?	(If needed, expl	ain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attac	ch site ma	ap showing sa	mpling poi	int locations	, transects	, important feat	ures, etc.
Hydrophytic Vegetation Present?	Yes 🔘	No 💿					
Hydric Soil Present?	Yes 🔘	No 💿	Is the San	npled Area			
	Yes 💽	No 🕥	within a V		Yes 🔿	No 💿	
Remarks: Project site is actively graze	d by cattle	throughout and t	ramnling has	a occurred thro	ughout this f	eature Defined h	ed and

Remarks: Project site is actively grazed by cattle throughout and trampling has occurred throughout this feature. Defined bed and bank have been lost in some areas.

	Absolute	Dominant		Dominance Test works	neet:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Spe				
1				That Are OBL, FACW, or	FAC:	0	(A)	
2				Total Number of Domina	nt			
3.				Species Across All Strata	:	1	(B)	
4.				Percent of Dominant Spe	cies			
Total Cove	r: %			That Are OBL, FACW, or		0.0 %	(A/B)	
Sapling/Shrub Stratum						0.0 /0	. ,	
1				Prevalence Index works				
2.				Total % Cover of:	M	ultiply by:	-	
3.				OBL species	x 1 =	0		
4.				FACW species	x 2 =	0		
5.				FAC species	x 3 =	0		
Total Cover	r: %			FACU species	x 4 =	4		
Herb Stratum				UPL species 18	x 5 =	90		
1. Centaurea solstitialis	15	Yes	Not Listed	Column Totals: 19		94	(B)	
<sup>2</sup> . <i>Hemizonia congesta</i>	3	No	Not Listed					
3. Erodium sp.	1	No	FACU	Prevalence Index = B/A = 4.95				
4.				Hydrophytic Vegetation	Indicators	:		
5.				Dominance Test is >	50%			
6.				Prevalence Index is	≤3.0 <sup>1</sup>			
7.				Morphological Adapt			ing	
8.			·	data in Remarks		,		
Total Cover	r: 19 %			- Problematic Hydroph	iytic Vegeta	ition' (Explaii	n)	
Woody Vine Stratum	17 %							
1.				<sup>1</sup> Indicators of hydric soil	and wetlan	d hydrology	must	
2.	_			be present.				
Total Cover	r: %			Hydrophytic				
% Bare Ground in Herb Stratum     81 %     % Cover of Biotic Crust     %     Vegetation Present?     Yes     No								
Remarks:				1				

		to the dept			or confirm	n the absence of indic	cators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features % Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-8	7.5YR 3/1	100				Silty clay loam	
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix.	<sup>2</sup> Location: PL=Pore	Lining, R	C=Root Channel, M=M	latrix.
<sup>3</sup> Soil Texture	es: Clay, Silty Clay, S	Sandy Clay,	Loam, Sandy Clay				t Loam, Silt, Loamy Sand, Sand.
	ndicators: (Applicabl	e to all LRF					lematic Hydric Soils <sup>4</sup> :
Histoso			Sandy Redo	. ,		1 cm Muck (A9	
	pipedon (A2) listic (A3)			cky Mineral (F1)		Reduced Verti	
	en Sulfide (A4)			yed Matrix (F2)		Red Parent Ma	
	d Layers (A5) (LRR C	;)	Depleted N			Other (Explain	
1 cm M	uck (A9) (LRR D)		Redox Darl	k Surface (F6)			
	d Below Dark Surface	e (A11)		ark Surface (F7)			
	ark Surface (A12)			ressions (F8)		4	
	Mucky Mineral (S1)		Vernal Poo	ls (F9)			ophytic vegetation and
	Gleyed Matrix (S4) Layer (if present):						gy must be present.
	mpacted soil						
Depth (in	-					Hydric Soil Presen	t? Yes 🔿 No 💿
Remarks:							~ ~
HYDROLC	GY						
Wetland Hy	drology Indicators:					Secondary Inc	dicators (2 or more required)
Primary Indi	cators (any one indica	ator is suffic	cient)			Water Ma	arks (B1) ( <b>Riverine</b> )
Surface	Water (A1)		Salt Crust	(B11)		Sediment	Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Cru	st (B12)		Drift Depo	osits (B3) ( <b>Riverine</b> )
Saturati	ion (A3)		Aquatic In	vertebrates (B13)		Drainage	Patterns (B10)
Water N	/larks (B1) ( <b>Nonriveri</b>	ne)	Hydrogen	Sulfide Odor (C1)		Dry-Seas	on Water Table (C2)
Sedime	nt Deposits (B2) (Nor	nriverine)		Rhizospheres along	-	ots (C3) Thin Muc	k Surface (C7)
	posits (B3) (Nonriver	ine)		of Reduced Iron (C4	,		Burrows (C8)
	Soil Cracks (B6)			on Reduction in Plow	ed Soils (		n Visible on Aerial Imagery (C9)
	ion Visible on Aerial I	magery (B7	) X Other (Ex	plain in Remarks)			Aquitard (D3) tral Test (D5)
Field Obser	Stained Leaves (B9)						
Surface Wa		es 🔿 🛛 N	lo 💿 Depth (in	iches).			
Water Table		-	_ · ·				
Water Table	Present? Y	es 🔿 🛛 N	lo 💿 🛛 Depth (in	iches):			

Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

No 💿

Yes (

Depth (inches):

Remarks: Defined bed and bank are present in the vicinity of this sample point but are highly disturbed. Top 3 inches of soil are moist.

Saturation Present?

No C

Project/Site: Janus Solar	City/County:Colusa Cou	inty	Sampling Date: 1/20/2021		
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point: 3-2 wet		
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, Rang	ge: <u>1-3, 25, 26, 29, 3</u>	0, 35; 14N, 15N; 3W, 4W		
Landform (hillslope, terrace, etc.): Drainage channel	Local relief (concave, co	nvex, none):None	Slope (%):1		
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:Refer to Map	Datum:N/A		
Soil Map Unit Name: Capay clay loam/Ayar clay		NWI classif	ication:R4SBA		
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes  No	(If no, explain in	Remarks.)		
Are Vegetation X Soil X or Hydrology si	gnificantly disturbed? Are "N	ormal Circumstances"	present? Yes 💿 No 🔿		
Are Vegetation Soil or Hydrology n	aturally problematic? (If nee	ded, explain any answ	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing sampling point loo	ations, transects	s, important features, etc.		
Hydrophytic Vegetation Present? Yes 🦳 No					
Hydric Soil Present? Yes No	Is the Sampled A	rea			
Wetland Hydrology Present? Yes 💿 No	within a Wetland	? Yes C	No 💿		

Remarks: Project site is actively grazed by cattle throughout and trampling has occurred throughout this feature. Defined bed and bank have been lost in some areas.

	Absolute	Dominant		Dominance Test we	orksheet			
Tree Stratum (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominan That Are OBL, FAC				(A)
2.				Total Number of Dor	minant			
3.				Species Across All S		6		(B)
4.				Percent of Dominant	Spacias			
Total Cover Sapling/Shrub Stratum	r: %			That Are OBL, FAC			7 %	(A/B)
1.				Prevalence Index w	orkshee	et:		
2.				Total % Cover c	of:	Multiply	by:	_
3.				OBL species		x 1 =	0	
4.		·	·	FACW species		x 2 =	0	
5.		·	·	FAC species	3	x 3 =	9	
Total Cover	%	·		FACU species	2	x 4 =	8	
Herb Stratum				UPL species	3	x 5 =	15	
1.Xanthium strumarium	3	Yes	FAC	Column Totals:	8	(A)	32	(B)
<sup>2</sup> .Centaurea solstitialis	1	Yes	Not Listed					
<sup>3</sup> . Aegilops triuncialis	1	Yes	Not Listed	Prevalence Inc			4.00	
<sup>4</sup> . <i>Erodium sp.</i>	1	Yes	FACU	Hydrophytic Veget				
5. Medicago polymorpha	1	Yes	FACU	Dominance Tes				
6. Lupinus sp.	1	Yes	Not Listed	Prevalence Inde				
7.				Morphological A data in Rema				ng
8.				Problematic Hyd			,	
Total Cover	8 %				liopnytic	vegetation	Explai	1)
Woody Vine Stratum				1 Indiactors of hydrig	ممنا ممط	watland bud	rology	munt
1				<sup>1</sup> Indicators of hydric be present.	son and	wettand nyo	rology	musi
2				-				
Total Cover	: %			Hydrophytic Vegetation				
	of Biotic C	Crust	%		Yes 🔿	No 🖲		
Remarks:								

									00		
	scription: (Describe to	the dep				or confirm	m the abs	sence of i	ndicato	rs.)	
Depth	Matrix	%		x Feature		Loc <sup>2</sup>	Text			Demen	1.0
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>		Text	ule		Remar	KS
0-4	<u>10YR 3/4</u>	98	7.5YR 5/8	1	С	<u>M</u>	Sand				
			7.5YR 8/1	1	D	M					
4-16	<u>10YR 3/4</u>	100					Sand				
	Concentration, D=Depleti				n: PL=Por	-					
	res: Clay, Silty Clay, Sar				andy Loan	n, Clay Loa					4
	Indicators: (Applicable t	o all LR								atic Hydric Soil	s:
Histos			Sandy Redo	. ,				1 cm Muck			
	Epipedon (A2)		Stripped Ma	. ,				2 cm Muck			
	Black Histic (A3)							Reduced \			
	gen Sulfide (A4)		Loamy Gley		. ,			Red Paren		· · ·	
	ed Layers (A5) (LRR C)		Depleted M					Other (Exp	lain in F	Remarks)	
	Muck (A9) (LRR D)		Redox Dark		( )						
	ed Below Dark Surface (/	411)	Depleted D								
	Dark Surface (A12)		Redox Dep		(F8)		41	antona of h			e ve el
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pool	IS (F9)						tic vegetation a nust be preser	
							vv	elianu nyu	nology n	nust be preser	n.
	e Layer (if present):										
	ompacted soil									~ ~	
	inches):8						Hydri	c Soil Pre	sent?	Yes ()	No 💽
Remarks:											
HYDROL	002										
								0		(0	
	lydrology Indicators:									tors (2 or more	<u>`</u>
Primary Inc	dicators (any one indicato	or is suffi	,							(B1) (Riverine	,
	e Water (A1)		Salt Crust	· /						posits (B2) ( <b>Ri</b>	
	Vater Table (A2)		Biotic Crus	. ,					•	(B3) ( <b>Riverin</b>	e)
	ition (A3)		Aquatic In	vertebrat	es (B13)			X Drain	age Pat	terns (B10)	
Water	Marks (B1) (Nonriverine	e)	Hydrogen	Sulfide C	Odor (C1)			Dry-S	eason V	Vater Table (C	2)
Sedim	ent Deposits (B2) (Nonriv	verine)	Oxidized F	Rhizosph	eres along	Living Ro	ots (C3)	Thin I	Muck Su	ırface (C7)	
Drift D	eposits (B3) (Nonriverine	e)	Presence	of Reduc	ed Iron (C	4)		Crayf	ish Burre	ows (C8)	
Surfac	e Soil Cracks (B6)		Recent Iro	n Reduc	tion in Plov	wed Soils (	(C6)	Satur	ation Vis	sible on Aerial	Imagery (C9)
Inunda	ation Visible on Aerial Ima	igery (B <sup>.</sup>	7) 🔀 Other (Exp	olain in R	emarks)			Shallo	ow Aquit	tard (D3)	
	-Stained Leaves (B9)				,				Neutral <sup>-</sup>	Test (D5)	

Water-Stained Leaves (E	39)		FAC-Neutral Test (D5)						
Field Observations:									
Surface Water Present?	Yes 🔿	No 💿	Depth (inches):						
Water Table Present?	Yes 🔿	No 💿	Depth (inches):						
Saturation Present? (includes capillary fringe)	Yes 🔿	No 💿	Depth (inches):	Wetland Hydrology Present? Yes   No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:Defined bed and	bank are pr	esent in th	ne vicinity of this	ample point.					

Project/Site: Janus Solar			City/Coun	ty:Colusa C	ounty	Sampling Date: 1/20/2021		
Applicant/Owner: RWE Solar Developme	ent, LLC				State:CA	Sampling Po	oint:3-3 w	vet
Investigator(s): Daniel Berg, Monique O	Conner		Section, T	ownship, Ra	nge:1-3, 25, 26, 29, 3	, 35; 14N, 1	5N; 3W	,4W
Landform (hillslope, terrace, etc.): Drainage	e channel		Local reli	ef (concave,	convex, none):None	Slope (%):1		
Subregion (LRR):C - Mediterranean Cali	fornia	Lat:Refe	er to Map	)	Long:Refer to Map		- Datum:N	/A
Soil Map Unit Name: Capay clay loam/Ag	yar clay				NWI classif	ication:PSS/E	M1C	
Are climatic / hydrologic conditions on the s	ite typical for this ti	me of ye	ar? Yes (	No (	(If no, explain in	Remarks.)		
Are Vegetation X Soil X or Hydro	logy sigr	nificantly	disturbed	? Are	'Normal Circumstances"	present? Ye	s 💽	No 🔿
Are Vegetation Soil or Hydro	logy nati	urally pro	oblematic?	(lf ne	eded, explain any answ	ers in Remark	s.)	
Hydric Soil Present?	Yes No Yes No Yes No Yes No	• • •	ls t	the Sampled	Area nd? Yes (	No 💿		
VEGETATION	Δ	bsolute	Dominon	t Indicator	Dominance Test wor	kohooti		
Tree Stratum (Use scientific names.)		b Cover	Species?		Number of Dominant			
1.Populus fremontii		30	Yes	FAC	That Are OBL, FACW		2	(A)
2 3					Total Number of Domi Species Across All Str		5	(B)
4.	_				Percent of Dominant S	Snecies		

4				Percent of Domina	nt Specie	2S		
Sapling/Shrub Stratum	30 %			That Are OBL, FAC			0.0 %	(A/B)
1.				Prevalence Index	workshe	et:		
2.				Total % Cover	of:	Multi	ply by:	
3				OBL species		x 1 =	0	
4				FACW species	1	x 2 =	2	
5				FAC species	30	x 3 =	90	
Total Cover:	%	-		FACU species	1	x 4 =	4	
Herb Stratum				UPL species	2	x 5 =	10	
<sup>1</sup> .Juncus sp.	1	Yes	FACW	Column Totals:	34	(A)	106	(B)
2. Centaurea solstitialis	1	Yes	Not Listed					
3. Medicago polymorpha	1	Yes	FACU	Prevalence Index = B/A = 3.12				
4. Non-native grass	1	Yes	Not Listed	Hydrophytic Vege	etation In	dicators:		
5				Dominance Te	est is >50	%		
6.				Prevalence Inc	dex is ≤3.	.0 <sup>1</sup>		
7				Morphological		`		ng
8.				data in Ren		•	. ,	
Total Cover:	4 %			Problematic H	ydrophyti	ic Vegetatio	n' (Explain	)
Woody Vine Stratum				1 - Parton of build		d		
1				<sup>1</sup> Indicators of hydr be present.	ic soil an	id wetland I	iydrology r	nust
2								
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 96 % % Cover c	of Biotic C	Crust	%	Present?	Yes (	No	$   \overline{} $	
Remarks: Vegetation is grazed in this area so new spi	routs of	ripariar	n trees likely	don't survive.				
		-	-					

Brofile Dec	cription: (Describe t	o tho dou	th needed to docum	ont the	indicator	or confirm	n the absence of indic	ators )			
		o the dep				or comm	m the absence of indic	ators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks			
0-4	10YR 3/4	94	7.5YR 5/8	5	C	M	Loamy sand				
	<u>101K J/4</u>					·					
			7.5YR 8/1	1	<u>D</u>	<u>M</u>					
4-16	10YR 3/4	100					Loamy sand				
						·					
						·					
4											
	Concentration, D=Depl						RC=Root Channel, M=M				
						n, Clay Loa		t Loam, Silt, Loamy Sand, Sand.			
	Indicators: (Applicable	e to all LH					1 cm Muck (A9	ematic Hydric Soils:			
Histoso			Sandy Redox	( )	\ \		``	, ( )			
	pipedon (A2) listic (A3)		Stripped Ma				2 cm Muck (A1 Reduced Vertic				
	en Sulfide (A4)		Loamy Gley				Red Parent Ma				
	ed Layers (A5) (LRR C	)	Depleted Ma		· · ·		Other (Explain in Remarks)				
	uck (A9) (LRR D)	/	Redox Dark					,			
	ed Below Dark Surface	(A11)	Depleted Da	ark Surfa	ace (F7)						
Thick D	ark Surface (A12)		Redox Depr	essions	s (F8)						
Sandy I	Mucky Mineral (S1)		Vernal Pools	s (F9)			<sup>4</sup> Indicators of hydro	phytic vegetation and			
Sandy 🤇	Gleyed Matrix (S4)						wetland hydrology must be present.				
Restrictive	Layer (if present):										
Type:Ro	ck										
Depth (ir	nches):10						Hydric Soil Present	t?Yes 🔿 No 💿			
Remarks:											
HYDROLC	DGY										
Wetland Hy	drology Indicators:						Secondary Inc	licators (2 or more required)			
Primary Indi	icators (any one indica	tor is suff	icient)				Water Ma	rks (B1) ( <b>Riverine</b> )			
Surface	e Water (A1)		Salt Crust	(B11)			Sediment	Deposits (B2) (Riverine)			
High W	ater Table (A2)		Biotic Crus	t (B12)			X Drift Depo	osits (B3) ( <b>Riverine</b> )			
Saturat	ion (A3)		Aquatic Inv	rtebra	ites (B13)			Patterns (B10)			
Water N	Marks (B1) ( <b>Nonriveri</b> i	ne)	Hydrogen :	Sulfide	Odor (C1)		Dry-Seaso	on Water Table (C2)			
	ent Deposits (B2) (Non		Oxidized R	hizospł	neres along	Living Ro	ots (C3)	< Surface (C7)			
	posits (B3) (Nonriver		Presence of	of Redu	ced Iron (C	4)		Burrows (C8)			
	Soil Cracks (B6)	-			ction in Plov			Visible on Aerial Imagery (C9)			
	ion Visible on Aerial Ir	nagery (E						quitard (D3)			
	Stained Leaves (B9)	`						tral Test (D5)			
Field Obse											
Surface Wa	ter Present? Ye	es 🔿	No ( Depth (inc	hes):							

 Saturation Present?
 Yes
 No
 Depth (inches):
 Wetland Hydrology Present?
 Yes

 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
 Wetland Hydrology Present?
 Yes

Depth (inches):

Remarks:

Water Table Present?

Yes 🔿

No 💿

 $\mathbf{\bullet}$ 

No 🔿

Project/Site: Janus Solar		City/County:Co	olusa County	Sampling Date: 1/20/2021			
Applicant/Owner: RWE Solar Development, LLC		_	S	State:CA	Sampling Point:4-1 up		
Investigator(s): Daniel Berg, Monique O'Conner		Section, Town	ship, Range:1-3	, 25, 26, 29, 30	), 35; 14N, 15N; 3W, 4W		
Landform (hillslope, terrace, etc.): Disturbed drainage		Local relief (co	oncave, convex,	none):None	Slope (%):()		
Subregion (LRR):C - Mediterranean California	Lat:Ref	fer to Map	Long:	Refer to Map	Datum:N/A		
Soil Map Unit Name: Clear Lake/Ayar clay				NWI classifi	cation:None		
Are climatic / hydrologic conditions on the site typical for t	his time of ye	ear?Yes 💿	No ()	If no, explain in F	Remarks.)		
Are Vegetation X Soil or Hydrology	significantly	y disturbed? Are "Normal Circumstances" present? Yes 💿 No 🔿				)	
Are Vegetation Soil or Hydrology	naturally pr	oblematic?	(If needed, e	xplain any answe	vers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	o showing	y sampling p	oint location	ns, transects	, important features, e	tc.	
Hydrophytic Vegetation Present? Yes	No 💿						
Hydric Soil Present? Yes	No 💿	Is the S	Sampled Area				
Wetland Hydrology Present? Yes	No 🜘	within	a Wetland?	Yes 🔿	No 💿		

Remarks: Project site is actively grazed by cattle throughout.

	Absolute	Dominant		Dominance Test worksheet:				
Tree Stratum (Use scientific names.) 1.	% Cover	Species?	Status	Number of Dominant Species           That Are OBL, FACW, or FAC:         0				
2.				 Total Number of Dominant				
3.				Species Across All Strata:	2	(B)		
4.				- Demonst of Dominant Species				
Total Cove Sapling/Shrub Stratum	r: %			<ul> <li>Percent of Dominant Species That Are OBL, FACW, or FAC:</li> </ul>	0.0 %	% (A/B)		
1.				Prevalence Index worksheet				
2.				Total % Cover of:	Multiply by	:		
3.				OBL species	x 1 =	0		
4.					x 2 =	0		
5.					x 3 =	0		
Total Cover	r: %			_	x 4 = 1	120		
Herb Stratum	. 70					325		
1.Aegilops triuncialis	65	Yes	Not Listed	. 05		145 (B)		
<sup>2</sup> .Avena sp.	30	Yes	FACU					
3.				Prevalence Index = B/A		.68		
4.				Hydrophytic Vegetation Indicators:				
5.				Dominance Test is >50%				
6.				Prevalence Index is ≤3.0 <sup>1</sup>				
7				Morphological Adaptations				
8.				Problematic Hydrophytic V		,		
Total Cover	95 %					plain)		
Woody Vine Stratum				Indicators of hydric soil and y	watland budral			
1				<sup>1</sup> Indicators of hydric soil and v be present.	wettand hydron	ogy musi		
2								
Total Cover	r: %			Hydrophytic Vegetation				
	r of Biotic C	Crust0	%	Present? Yes 🔿	No 💿			
Remarks:								

Profile Des	scription: (Describe t	o the depth	needed to docu	ment the i	ndicator	or confirm	the absence	e of indicato	ors.)				
Depth	Matrix			x Features									
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>		Remarks				
0-16	10YR 3/4	100					Silty clay loan						
17			- de la se de NA - Color	- 21									
• •	Concentration, D=Deple res: Clay, Silty Clay, S						C=Root Chan			Sond Sond			
					ndy Loam	, Clay Loai				sano, Sano.			
-	Indicators: (Applicable	to all LRRS		-				Muck (A9) (I	atic Hydric Soils:				
Histosol (A1)       Sandy Redox (S5)         Histic Epipedon (A2)       Stripped Matrix (S6)								. , .	,				
	Black Histic (A3) Loamy Mucky Mineral (F1)								2 cm Muck (A10) ( <b>LRR B</b> ) Reduced Vertic (F18)				
	gen Sulfide (A4)		Loamy Gle					Parent Mater					
	ed Layers (A5) (LRR C	)	Depleted N		· · ·		Other	(Explain in I	Remarks)				
1 cm N	luck (A9) (LRR D)		Redox Darl	k Surface (	F6)								
Deplete	ed Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)								
	Dark Surface (A12)		Redox Dep		F8)								
	Mucky Mineral (S1)		Vernal Poo	ls (F9)					ytic vegetation an	d			
	Gleyed Matrix (S4)						wetlan	d hydrology	must be present.				
	e Layer (if present):												
Type:									-	-			
Depth (in	nches):						Hydric Soi	I Present?	Yes	No 💽			
Remarks:													
HYDROLO													
	ydrology Indicators:							-	ators (2 or more re	quired)			
Primary Ind	licators (any one indica	tor is sufficie	nt)				\_ \	Nater Marks	(B1) ( <b>Riverine</b> )				
Surface	e Water (A1)		Salt Crust	(B11)				Sediment De	eposits (B2) (Rive	rine)			
	/ater Table (A2)		Biotic Cru	· · ·					s (B3) (Riverine)				
Saturat	tion (A3)		Aquatic In	vertebrate	s (B13)			Drainage Pa	tterns (B10)				
	Marks (B1) (Nonriverin			Sulfide Oc					Water Table (C2)				
Sedime	ent Deposits (B2) (Non	riverine)			-	Living Roo	ots (C3)	Thin Muck S	urface (C7)				
	eposits (B3) ( <b>Nonriveri</b>	ne)		of Reduce	``	,		Crayfish Bur	· · /				
Surface	e Soil Cracks (B6)					ed Soils (C	C6) S	Saturation Vi	isible on Aerial Im	agery (C9)			
Inunda	tion Visible on Aerial In	nagery (B7)	Other (Ex	plain in Re	marks)			Shallow Aqu	itard (D3)				

	0,1	в7)						
Water-Stained Leaves (I	B9)		FAC-Neutral Test (D5)					
Field Observations:								
Surface Water Present?	Yes 🔿	No 💽	Depth (inches):					
Water Table Present? Yes O No      Depth (inches):								
Saturation Present? (includes capillary fringe)	Yes 🔿	No 💿	Depth (inches):	Wetland Hydrology Present?	Yes 🔿	No 💿		
Describe Recorded Data (str	eam gauge, n	nonitoring	well, aerial photos, previous insp	pections), if available:				
Remarks:								

Project/Site: Janus Solar	City/Count	y:Colusa C	County	Sar	Sampling Date: 1/20/2021				
Applicant/Owner: RWE Solar Development, LLC				State:CA	Sar	Sampling Point:4-1 wet			
Investigator(s): Daniel Berg, Monique O'Conner		Section, Township, Range:1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W,						/	
Landform (hillslope, terrace, etc.): Disturbed drainage		Local relief (concave, convex, none):None				SI	ope (%):1		
Subregion (LRR):C - Mediterranean California	Lat:Ref	er to Map		Long:Refer to Map	)	Dat	um:N/A		
Soil Map Unit Name: Clear Lake/Ayar clay		1		NWI class		PFOA			
Are climatic / hydrologic conditions on the site typical for th	is time of ve	ear? Yes	No (						
		disturbed?	-	"Normal Circumstance		,	No	$\cap$	
	naturally pro			eeded, explain any ans		~		U	
SUMMARY OF FINDINGS - Attach site map	showing	samplin	ig point l	ocations, transec	ts, im	portant fe	eatures,	etc.	
Hydrophytic Vegetation Present? Yes 💿 N	lo 🔘								
Hydric Soil Present? Yes O	lo 💽	ls t	he Sample	d Area					
Wetland Hydrology Present? Yes O	lo 💽	wit	hin a Wetla	ind? Yes (	C	No 💿			
Remarks: Project site is actively grazed by cattle thr	oughout a	nd trampli	ing has occ	curred throughout the	is featu	re.			
VEGETATION									
	Absolute	Dominant		Dominance Test w	orkshee	et:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status		Number of Dominant Species				
1.Populus fremontii	$-\frac{10}{10}$	$\frac{\text{Yes}}{\text{Ves}}$	FAC	- That Are OBL, FAC	/V, or ⊢ <i>i</i>	AC:	3	(A)	
2.Salix laevigata	$-\frac{10}{10}$	Yes	FACW	- Total Number of Do					
3.Salix goodingii	10	Yes	FACW	Species Across All Strata:			4	(B)	
4Total Cove	20.00			- Percent of Dominan		-			
Sapling/Shrub Stratum	er: 30 %			That Are OBL, FAC	/V, or ⊢ <i>F</i>	AC: 7	5.0 % (	(A/B)	
1.				Prevalence Index v	vorkshe	et:			
2.				Total % Cover of	of:	Multip	oly by:		
3				OBL species		x 1 =	0		
4				FACW species	25	x 2 =	50		
5	_			FAC species	10	x 3 =	30		
Horb Stratum	er: %			FACU species	1	x 4 =	4		
Herb Stratum	50	Vac	Neg Time I	UPL species	53	x 5 =	265		
1-Aegilops triuncialis 2-Rumex sp.	$-\frac{50}{5}$	$\frac{\text{Yes}}{\text{No}}$	FACW	_ Column Totals:	89	(A)	349	(B)	
3. Centaurea solstitialis	$-\frac{3}{3}$	No	Not Listed	Prevalence Inc	dex = B	/A =	3.92		
4. Erodium sp.		No	FACU	Hydrophytic Veget	ation In	dicators:			
5. <u>Erourum sp.</u>				🗕 🗙 Dominance Tes	t is >50	%			
6.				Prevalence Inde	ex is ≤3.	0 <sup>1</sup>			
7.				Morphological A				ng	
8.				data in Rema				、 、	
Total Cove	er: 59 %			Problematic Hydrogenetic Hyd	arophyti	c vegetatior	n (Explain)	)	
Woody Vine Stratum	57 70			Indianters of hereit	oc!! -	المتعامين أم	value le ····	t	
1				<sup>1</sup> Indicators of hydric be present.	soil an	a wetland h	iyarology n	nust	
2				_					
Total Cove	er: %			Hydrophytic Vegetation					
% Bare Ground in Herb Stratum 41 % % Cove	er of Biotic C	Crust	%		Yes 🖲	No (	0		
Remarks: Vegetation is grazed in this area so new	sprouts of	riparian ti	ees likely	don't survive.					
		-	·						

Profile Des	scription: (Describe to	o the de	pth needed to docur	nent the	e indicator	or confir	m the absence of indicators.)
Depth				Feature	es		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks
0-12	10YR 3/3	94	2.5YR 4/8	5	С	М	Silty clay loam
			7.5YR 8/1	1	D	М	
					·		
	·						
17 0 1				2.			
	Concentration, D=Deple					-	RC=Root Channel, M=Matrix. am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.
	Indicators: (Applicable				anuy Luan	I, Clay Lu	Indicators for Problematic Hydric Soils:
Histoso			Sandy Redox				1 cm Muck (A9) (LRR C)
	Epipedon (A2)		Stripped Ma	· · /			2 cm Muck (A10) ( <b>LRR B</b> )
	Histic (A3)		Loamy Muc	. ,			Reduced Vertic (F18)
	gen Sulfide (A4)		Loamy Gley	•	. ,		Red Parent Material (TF2)
	, , ,						
	ed Layers (A5) (LRR C)	)	Depleted M	•			Other (Explain in Remarks)
	1uck (A9) (LRR D)		Redox Dark		. ,		
	ed Below Dark Surface	(A11)	Depleted Da				
	Dark Surface (A12)		Redox Depi		(F8)		
· · ·	Mucky Mineral (S1)		Vernal Pool	s (F9)			<sup>4</sup> Indicators of hydrophytic vegetation and
Sandy	Gleyed Matrix (S4)						wetland hydrology must be present.
Restrictive	Layer (if present):						
Type:							
Depth (i	nches):						Hydric Soil Present? Yes O No 💿
Remarks:							
HYDROLO							
	ydrology Indicators:						Secondary Indicators (2 or more required)
	licators (any one indica	tor is sut					Water Marks (B1) ( <b>Riverine</b> )
Surface	e Water (A1)		Salt Crust	` '			Sediment Deposits (B2) (Riverine)
🗌 🗌 High W	/ater Table (A2)		Biotic Crus	st (B12)			Drift Deposits (B3) (Riverine)

Primary indicators (any one	ndicator is su	micient)	1		Water Watks (DT) (Riverine)		
Surface Water (A1)		!	Salt Crust (B11)		Sediment Deposits (B2) (Riverine)		
High Water Table (A2)		ĺ	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)		
Saturation (A3)			Aquatic Invertebrates (B13)	Γ	Drainage Patterns (B10)		
Water Marks (B1) ( <b>Nonriverine</b> )			Hydrogen Sulfide Odor (C1)	Γ	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	(Nonriverine	*)	Oxidized Rhizospheres along Liv	ving Roots (C3)	Thin Muck Surface (C7)		
Drift Deposits (B3) (Non	riverine)	į	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)		
Surface Soil Cracks (B6	)	į	Recent Iron Reduction in Plowed	d Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Ae	rial Imagery (	B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)		
Water-Stained Leaves (	B9)				FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Surface Water Present? Yes No (						
Water Table Present?	Yes 🔿	No 💽	Depth (inches):				
Saturation Present?	Yes 🔿	No 💽	Depth (inches):				
(includes capillary fringe)				-	ology Present? Yes 🔿 No 💿		
Describe Recorded Data (str	eam gauge, r	nonitori	ing well, aerial photos, previous inspe	ections), if available	2:		
Remarks:							

Project/Site: Janus Solar	City/County:Co	lusa County	Sampling Date: 1/21/2021		
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:5-1 trans		
Investigator(s):Daniel Berg, Monique O'Conner	Section, Towns	hip, Range:1-3, 25, 26, 29, 30	), 35; 14N, 15N; 3W, 4W		
Landform (hillslope, terrace, etc.): Pond slope	Local relief (co	ncave, convex, none):Concave	Slope (%):5		
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:Refer to Map	Datum:N/A		
Soil Map Unit Name: Ayar clay		NWI classifi	cation:None		
Are climatic / hydrologic conditions on the site typical for th	nis time of year? Yes 💿	No (If no, explain in F	Remarks.)		
Are Vegetation 🗙 Soil 🗙 or Hydrology 🗙	significantly disturbed?	ly disturbed? Are "Normal Circumstances" present? Yes )			
Are Vegetation Soil or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showing sampling p	oint locations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes 💿 I	No 🕥				
Hydric Soil Present? Yes 🙆 N	No 🕥 Is the Sa	ampled Area			

Hydric Soil Present?	Yes 💽	No 🔘	Is the Sampled Area								
Wetland Hydrology Present?	Yes 💽	No 💿	within a Wetland?	Yes 💿	No 🔿						
Remarks:Project site is actively grazed by cattle throughout.											

	Absolute	Dominant		Dominance Test wo	orksheet	::		
Tree Stratum (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant That Are OBL, FACV				(A)
2.				_ Total Number of Dominant				
3.				Species Across All S		2		(B)
4.				Percent of Dominant	Snacias			
Total Cove	r: %			That Are OBL, FACV			0 %	(A/B)
1.				Prevalence Index w	orkshee	et:		
2.				Total % Cover o	f:	Multiply	by:	_
3.		·		OBL species		x 1 =	0	
4.				FACW species	15	x 2 =	30	
5.		·	·	FAC species	16	x 3 =	48	
Total Cover	%	-		FACU species	10	x 4 =	40	
Herb Stratum				UPL species	4	x 5 =	20	
1.Festuca perennis	15	Yes	FAC	Column Totals:	45	(A)	138	(B)
<sup>2</sup> . <i>Phalaris sp.</i>	15	Yes	FACW					
<sup>3</sup> .Medicago polymorpha	7	No	FACU	Prevalence Index = $B/A = 3.07$				
4. Erodium sp.	3	No	FACU	Hydrophytic Vegetation Indicators: X Dominance Test is >50%				
5. Aegilops triuncialis	2	No	Not Listed					
6. Convolvulus arvensis	1	No	Not Listed	Prevalence Inde				
7. Centaurea solstitialis	1	No	Not Listed	Morphological A				ng
8. Polygonum aviculare	1	No	FAC	- Problematic Hyd		•	,	
Total Cover	45 %				ropnyuc	vegetation	Explair	1)
Woody Vine Stratum				1 undiantana of huddia		المتعالمة والمتعا		
1				<sup>1</sup> Indicators of hydric be present.	soll and	wetland hyd	rology	must
2				-				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum       55 %       % Cover of Biotic Crust       0 %       Vegetation         Present?       Yes •       No ○								
Remarks:								

Profile Desc	cription: (Describe	to the de	pth needed to a	locument the	e indicator	or confirm	m the absence of indicators.)
Depth	Matrix			Redox Featur			
(inches)	Color (moist)	%	Color (mois		Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks
0-6	10YR 5/6	95	5YR 5/8	5	С	М	Silty clay
						·	
1 <b>T</b>	D Dat			21			
	oncentration, D=Depl						tC=Root Channel, M=Matrix. am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sanc
	ndicators: (Applicabl					I, Clay Lua	Indicators for Problematic Hydric Soils:
Histosol		le to all Lr	·	Redox (S5)			1 cm Muck (A9) (LRR C)
	pipedon (A2)			ed Matrix (S6	)		2  cm Muck (A10) (LRR B)
	istic (A3)			Mucky Mine	·		Reduced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy	Gleyed Matr	ix (F2)		Red Parent Material (TF2)
	d Layers (A5) ( <b>LRR C</b>	<b>)</b> )		ed Matrix (F3			Other (Explain in Remarks)
	uck (A9) ( <b>LRR D</b> )			Dark Surface	( )		
	d Below Dark Surface	e (A11)		ed Dark Surf			
	ark Surface (A12) /lucky Mineral (S1)		[* *]	Depressions Pools (F9)	(F8)		<sup>4</sup> Indicators of hydrophytic vegetation and
	Gleyed Matrix (S4)		Venia	1 0013 (1 3)			wetland hydrology must be present.
	Layer (if present):						
	mpacted soil						
Depth (in	1						Hydric Soil Present? Yes  No
Remarks:				_			
HYDROLO	GY						
Wetland Hy	drology Indicators:						Secondary Indicators (2 or more required)
-	cators (any one indica	ator is suf	ficient)				Water Marks (B1) ( <b>Riverine</b> )
	Water (A1)		-	Crust (B11)			Sediment Deposits (B2) ( <b>Riverine</b> )
│	ater Table (A2)			Crust (B12)			Drift Deposits (B3) ( <b>Riverine</b> )
Saturati				tic Invertebra	tes (B13)		Drainage Patterns (B10)
X Water M	larks (B1) ( <b>Nonriveri</b>	ine)		ogen Sulfide			Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roo						ots (C3) Thin Muck Surface (C7)	
Drift De	posits (B3) ( <b>Nonriver</b>	ine)	Pres	ence of Redu	ced Iron (C	4)	Crayfish Burrows (C8)
X Surface	Soil Cracks (B6)		Rece	nt Iron Reduc	ction in Plov	ved Soils (	(C6) Xaturation Visible on Aerial Imagery (C9)
Inundati	ion Visible on Aerial I	magery (E	37) 🗌 Othe	r (Explain in F	Remarks)		Shallow Aquitard (D3)
Water-S	Stained Leaves (B9)						FAC-Neutral Test (D5)
Field Obser	vations:						
Surface Wat	er Present? Ye	es 🔿	No 💿 Dep	th (inches):			
Water Table	Present? Ye	es 🔿	No 💿 Dep	th (inches):			
Saturation P	resent? Yo pillary fringe)	es ()	No 💿 Dep	th (inches):		Wetl	land Hydrology Present? Yes 💿 No 🔿

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Janus Solar	C	City/County:Colusa County			Sampling Date: 1/21/2021		
Applicant/Owner: RWE Solar Development, LLC	2		S	tate:CA	Sampling Point:5-1 u	р	
Investigator(s): Daniel Berg, Monique O'Conner	S	Section, Town	ship, Range:1-3,	25, 26, 29, 30,	35; 14N, 15N; 3W,	, 4W	
Landform (hillslope, terrace, etc.): Hillslope	l	Local relief (co	oncave, convex, i	none):Concave	Slope (%):10		
Subregion (LRR):C - Mediterranean California	Lat:Refer	r to Map	Long:	Refer to Map	Datum:N	/A	
Soil Map Unit Name: Ayar clay				NWI classific	ation:None		
Are climatic / hydrologic conditions on the site typica	I for this time of yea	r?Yes 💽	No 🔿 (I	f no, explain in R	emarks.)		
Are Vegetation X Soil or Hydrology	significantly d	listurbed?	Are "Normal	Circumstances" p	resent? Yes 💿	No 🔿	
Are Vegetation Soil or Hydrology	naturally prob	ematic?	(If needed, e>	plain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site	map showing s	sampling p	oint location	is, transects,	important featur	es, etc.	
Hydrophytic Vegetation Present? Yes	No 💿						
Hydric Soil Present? Yes	No 💿	Is the S	Sampled Area				
Wetland Hydrology Present? Yes	No 💿	within	a Wetland?	Yes 🔿	No 💿		

Remarks: Project site is actively grazed by cattle throughout.

	Absolute	Dominant		Dominance Test worksheet:				
Tree Stratum (Use scientific names.) 1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A	.)			
2.				Total Number of Dominant				
3.				Species Across All Strata: 2 (B	5)			
4.				<ul> <li>Percent of Dominant Species</li> </ul>				
Total Cove	r: %			That Are OBL, FACW, or FAC: 0.0 % (A	/B)			
1.				Prevalence Index worksheet:				
2.				Total % Cover of: Multiply by:				
3.				- OBL species $x 1 = 0$				
4.				FACW species $x 2 = 0$				
5.				FAC species $x = 0$				
Total Cover	: %			FACU species 38 x 4 = 152				
Herb Stratum				UPL species $62 \times 5 = 310$				
1.Aegilops triuncialis	58	Yes	Not Listed	02 010	(B)			
<sup>2</sup> .Avena sp.	38	Yes	FACU					
3. Vicia villosa	3	No	Not Listed	Prevalence Index = B/A = 4.62				
<sup>4</sup> .Lupinus sp.	1	No	Not Listed	Hydrophytic Vegetation Indicators:				
5				Dominance Test is >50%				
6.				Prevalence Index is ≤3.0 <sup>1</sup>				
7				<ul> <li>Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>	J			
8				<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>				
Total Cover	100%							
Woody Vine Stratum				<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ict			
1				be present.	131			
2		·						
Total Cover	: %			Hydrophytic Vegetation				
	of Biotic C	Crust	) %	Present? Yes No				
Remarks:								

Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Ty	pe <sup>1</sup> Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks	
0-12	_ <u>10YR 4/4</u>	100		·		Silty clay		
	 Concentration, D=Deplet res: Clay, Silty Clay, Sar					RC=Root Channel,	 M=Matrix. m, Silt Loam, Silt, Loamy Sand,	Sand.
Histose Histor I Black I Hydrog Stratifi 1 cm M Deplet Thick I Sandy Sandy	Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR C) Auck (A9) (LRR D) ed Below Dark Surface (A Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Auger (if present):		Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D	x (S5) atrix (S6) ky Mineral (F1) ved Matrix (F2) atrix (F3) & Surface (F6) ark Surface (F7) ressions (F8)		1 cm Muc 2 cm Muc Reduced Red Pare Other (Ex	Problematic Hydric Soils <sup>4</sup> : ck (A9) (LRR C) ck (A10) (LRR B) Vertic (F18) ent Material (TF2) kplain in Remarks) hydrophytic vegetation and vdrology must be present.	)
YDROL	OGY ydrology Indicators:					Seconda	ary Indicators (2 or more require	
	dicators (any one indicato	or is suffic	ient)				er Marks (B1) ( <b>Riverine</b> )	
Surfac	e Water (A1)		Salt Crust	(B11)		Sed	iment Deposits (B2) (Riverine)	
🔄 High V	Vater Table (A2)		Biotic Crus	st (B12)		Drift	Deposits (B3) (Riverine)	
Satura	tion (A3)		Aquatic In	vertebrates (B1	3)	Drai	nage Patterns (B10)	
Water	Marks (B1) (Nonriverine	e)		Sulfide Odor (0	,		Season Water Table (C2)	
Sedim	ent Deposits (B2) ( <b>Nonri</b>	verine)	Oxidized F	Rhizospheres a	long Living Ro	ots (C3)	Muck Surface (C7)	
	eposits (B3) (Nonriverin	e)		of Reduced Iro	( )		yfish Burrows (C8)	
Surfac	e Soil Cracks (B6)		Recent Iro	n Reduction in	Plowed Soils (	(C6) 🗌 Satu	ration Visible on Aerial Imagerv	(C9)

Other (Explain in Remarks)

Depth (inches):

Depth (inches):

Depth (inches):

Inundation Visible on Aerial Imagery (B7)

Yes ()

Yes 🔿

Yes 🔿

No 💿

No 💿

No 💿

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Water-Stained Leaves (B9)

Field Observations: Surface Water Present?

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

 $(\bullet)$ 

No

Shallow Aquitard (D3)

FAC-Neutral Test (D5)

Yes

С

Wetland Hydrology Present?

Project/Site: Janus Solar	City/County:Colusa Coun	City/County:Colusa County			
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:5-1 wet		
Investigator(s):Daniel Berg, Monique O'Conner	Section, Township, Range:	Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W			
Landform (hillslope, terrace, etc.): Pond	Local relief (concave, conv	vex, none):Concave	Slope (%):0		
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map Lo	ng:Refer to Map	Datum:N/A		
Soil Map Unit Name: Ayar clay		NWI classific	cation:None		
Are climatic / hydrologic conditions on the site typical for this tir	me of year? Yes 💿 No 🔿	(If no, explain in R	Remarks.)		
Are Vegetation $X$ Soil $X$ or Hydrology $X$ sign	ificantly disturbed? Are "Nor	mal Circumstances"	present? Yes 💿 No 🔿		
Are Vegetation Soil or Hydrology natu	urally problematic? (If neede	d, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map she	owing sampling point loca	tions, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes  No ( Hydric Soil Present? Yes  No (		ea			

riyunc Son Fresent?			is the Sampled Area						
Wetland Hydrology Present?	Yes 💽	No 🔘	within a Wetland?	Yes	$oldsymbol{eta}$	No 🔿			
Remarks: Project site is actively grazed by cattle throughout.									

	Absolute	Dominant		Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominan That Are OBL, FAC			2	(A)
2.								
3.			·	Total Number of Do Species Across All S			3	(B)
4.				-			5	(-)
Total Cove	r: %			<ul> <li>Percent of Dominan</li> <li>That Are OBL, FAC</li> </ul>		-		(A/B)
Sapling/Shrub Stratum	1. 70				W, 011 A	0. 0	6.7 %	(A/D)
1.				Prevalence Index v	vorkshee	et:		
2.				Total % Cover of	of:	Multip	oly by:	_
3.				OBL species		x 1 =	0	
4.		·		FACW species	2	x 2 =	4	
5.		·		FAC species	2	x 3 =	6	
Total Cove	r: %	-		FACU species	5	x 4 =	20	
Herb Stratum				UPL species	1	x 5 =	5	
1.Medicago polymorpha	3	Yes	FACU	Column Totals:	10	(A)	35	(B)
<sup>2</sup> . <i>Festuca perennis</i>	2	Yes	FAC			•		
<sup>3</sup> .Phalaris sp.	2	Yes	FACW	Prevalence Inc			3.50	
<sup>4</sup> . <i>Erodium sp.</i>	1	No	FACU	Hydrophytic Veget				
5. Convolvulus arvensis	1	No	Not Listed	Dominance Tes				
6. <i>Proboscidea sp.</i>	1	No	FACU	Prevalence Inde				
7.				Morphological A				ng
8.				- Problematic Hy			. '	.,
Total Cove	r: 10 %				uropriyiic	vegetatio	і (слріан	')
Woody Vine Stratum				<sup>1</sup> Indicators of hydric		l wotland h	vdrology	munt
1				be present.	SUI and		yurology	musi
2				-				
Total Cove	r: %			Hydrophytic Vegetation				
	r of Biotic C	Crust (	) %		Yes 💿	No (	0	
Remarks:								

Depth	Matrix		Redox	Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-6	10YR 5/6	92	5YR 5/8	7	С	М	Silty clay	
			2.5YR 3/6	1	C	М		
6-16	10YR 5/6	83	5YR 5/8	9	C	М	Silty clay	
			2.5YR 3/6	7	C	M		
			7.5YR 8/3	1	D	М	·	
<sup>1</sup> Type: C=			M=Reduced Matrix				RC=Root Channel, M=Matrix.	
•••						-	am, Silty Clay Loam, Silt Loam, S	Silt, Loamy Sand, Sanc
Histos Histic Black Hydro Stratifi 1 cm M Deplei Thick Sandy Sandy	iol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) ( <b>LRR 0</b> ) Muck (A9) ( <b>LRR D</b> ) ted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	C)	RRs, unless otherwise         Sandy Redox         Stripped Ma         Loamy Mucl         Loamy Gley         Depleted Ma         Redox Dark         Depleted Da         X         Redox Depr         Vernal Pools	trix (S5) trix (S6) dy Mine ed Matr atrix (F3 Surface ark Surfa essions	) ral (F1) rix (F2) 8) e (F6) ace (F7)		Indicators for Problematic H 1 cm Muck (A9) (LRR 2 cm Muck (A10) (LRR Reduced Vertic (F18) Red Parent Material (TI Other (Explain in Rema 4Indicators of hydrophytic ve wetland hydrology must	<b>B</b> ) F2) urks) egetation and
	e Layer (if present):							
Type: Depth(	inches):						Hydric Soil Present? Yes	s 💿 🛛 No 🔿
Remarks:	Soil is in large chun	ks that c	lo not easily break.				·	

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) ( <b>Riverine</b> )
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) ( <b>Riverine</b> )
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)       Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)         Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	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 🔿
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:Soil is slightly damp at depth of 6-16 inches.	
tomano Son is signify damp at depth of 0-10 menes.	

Project/Site: Janus Solar	City/County:Colusa	County	Sampling Date: 1/21/2021					
Applicant/Owner:RWE Solar Development, LLC		State:CA	Sampling Point: 6-1 wet					
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, I	Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W						
Landform (hillslope, terrace, etc.): Depression	Local relief (concave	e, convex, none):Concave	Slope (%):()					
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:Refer to Map	Datum:N/A					
Soil Map Unit Name: Ayar clay		NWI classific	ation:None					
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes 💿 No	(If no, explain in R	emarks.)					
Are Vegetation X Soil X or Hydrology X sig	nificantly disturbed? Ar	e "Normal Circumstances" p	present? Yes 💿 No 🔿					
Are Vegetation Soil or Hydrology na	turally problematic? (If	needed, explain any answe	rs in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes ( No	•							
Hydric Soil Present? Yes 🕥 No	Is the Sample	ed Area						
Wetland Hydrology Present? Yes  No	within a Wet	land? Yes 🔿	No 💿					

Remarks:Project site is actively grazed by cattle throughout.

	Absolute	Dominant	Indicator	Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominar	nt Specie	S		
1.				That Are OBL, FAC	W, or FA	C: 2		(A)
2.				Total Number of Do	minant			
3.				Species Across All		3		(B)
4.								
Total Cove	r: %			Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 % (A				(A/B)
Sapling/Shrub Stratum	. 70				vv, or i A	0. 00.	%	(A/D)
1.				Prevalence Index v	vorkshee	et:		
2.				Total % Cover	of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4.		·		FACW species	10	x 2 =	20	
5.				FAC species	11	x 3 =	33	
Total Cover	. %			FACU species	10	x 4 =	40	
Herb Stratum				UPL species	3	x 5 =	15	
<sup>1</sup> .Festuca perennis	10	Yes	FAC	Column Totals:	34	(A)	108	(B)
2. Phalaris sp.	10	Yes	FACW			. ,		( )
<sup>3</sup> .Medicago polymorpha	7	Yes	FACU	Prevalence In			3.18	
<sup>4</sup> . <i>Erodium sp.</i>	3	No	FACU	Hydrophytic Veget	ation Inc	dicators:		
5. Aegilops triuncialis	3	No	Not Listed	X Dominance Tes	st is >50%	6		
6. Polygonum aviculare	1	No	FAC	Prevalence Ind	ex is ≤3.0	) <sup>1</sup>		
7.				Morphological A				ng
8.		·				n a separate s	,	
Total Cover	34 %			- Problematic Hy	drophytic	vegetation' (	Explain	)
Woody Vine Stratum	J <del>+</del> 70							
1.				<sup>1</sup> Indicators of hydric	soil and	d wetland hyd	rology r	nust
2.				be present.				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum 66 % % Cover	of Biotic C	Crust ()	%	Vegetation Present?	Yes 💿	No 🔿		
Remarks:								

Profile Des	cription: (Describe to	o the de	pth needed to document the in	dicator	or confirm	m the absence of indicators.)				
Depth	Matrix		Redox Features							
(inches)	Color (moist)	%	Color (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks	-			
0-12	10YR 5/6	99	5YR 5/8 1 C	2	Μ	Silty clay				
							_			
	<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup> Location: PL=Pore Lining, RC=Root Channel, M=Matrix.									
<sup>3</sup> Soil Textur	es: Clay, Silty Clay, Sa	andy Cla	y, Loam, Sandy Clay Loam, San	dy Loam	, Clay Loa	am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.				
-		to all LF	RRs, unless otherwise noted.)			Indicators for Problematic Hydric Soils <sup>4</sup> :				
<ul> <li>Histosol (A1)</li> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4)</li> <li>Stratified Layers (A5) (LRR C)</li> <li>1 cm Muck (A9) (LRR D)</li> <li>Depleted Below Dark Surface (A11)</li> <li>Thick Dark Surface (A12)</li> </ul>			Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)			1 cm Muck (A9) (LRR C)     2 cm Muck (A10) (LRR B)     Reduced Vertic (F18)     Red Parent Material (TF2)     Other (Explain in Remarks)				
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pools (F9)			<sup>4</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present.				
	Layer (if present):									
Type:	Luyer (in present).									
Depth (inches):					Hydric Soil Present? Yes 🔿 No 💿					
Remarks: Low percent redox, does not meet F8.										

# HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) ( <b>Riverine</b> )
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
X Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils (C6)	X Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No 💽	Depth (inches):	
Water Table Present? Yes O No	Depth (inches):	
Saturation Present? Yes No ( (includes capillary fringe)	Depth (inches): Wetland Hy	vdrology Present? Yes 💿 No 🦳
	ng well, aerial photos, previous inspections), if avail	
Remarks:		

Project/Site: Janus Solar	City/C	ounty:Colusa Count	Sampling Date: 1/21/2021	
Applicant/Owner: RWE Solar Development, LLC			State:CA	Sampling Point:7-1 trans
Investigator(s): Daniel Berg, Monique O'Conner	Sectio	n, Township, Range:	1-3, 25, 26, 29, 30	, 35; 14N, 15N; 3W, 4W
Landform (hillslope, terrace, etc.): Pond slope	Local	relief (concave, conv	ex, none):Concave	Slope (%):1
Subregion (LRR): C - Mediterranean California	Lat:Refer to N	Iap Lo	ng:Refer to Map	Datum:N/A
Soil Map Unit Name: Ayar clay			NWI classific	cation:R4SBC
Are climatic / hydrologic conditions on the site typical for	this time of year? Ye	es   No	(If no, explain in R	Remarks.)
Are Vegetation X Soil X or Hydrology X	significantly disturb	ed? Are "Norr	mal Circumstances"	present? Yes 💿 No 🔿
Are Vegetation Soil or Hydrology	naturally problema	tic? (If needed	d, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing sam	oling point locat	tions, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes (	No 🔘			
Hydric Soil Present? Yes 💿	No 🕥	Is the Sampled Are	a	
Wetland Hydrology Present? Yes 💿	No 🔘	within a Wetland?	Yes 💽	No 🔿

Remarks: Project site is actively grazed by cattle throughout.

#### VEGETATION

<b>T O</b> (1) (1) (1)	Absolute	Dominant		Dominance Test w	/orksheet	:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominal				
1.Populus fremontii	3	Yes	FAC	That Are OBL, FAC	W, or FAC	C: 2		(A)
2				Total Number of Do	minant			
3				Species Across All	Strata:	2		(B)
4				Percent of Dominar	nt Species			
Total Cove	r: 3 %			That Are OBL, FAC			0 %	(A/B)
Sapling/Shrub Stratum				Prevalence Index	warkahaa	4.		
1				Total % Cover			b. //	
2					01.	Multiply		
3				OBL species		x 1 =	0	
4				FACW species	6	x 2 =	12	
5				FAC species	96	x 3 =	288	
Total Cover Herb Stratum	: %			FACU species		x 4 =	0	
	0.0			UPL species	8	x 5 =	40	
1.Festuca perennis	90	Yes	FAC	Column Totals:	110	(A)	340	(B)
<sup>2</sup> .Phalaris sp.	5	No	FACW	Prevalence In	dex = B/l	\ _	3.09	
<sup>3</sup> .Polygonum aviculare	3	No	FAC	Hydrophytic Vege			5.09	
4. Convolvulus arvensis	3	No	Not Listed					
5.Avena sp.	2	No	UPL	X Dominance Te				
6.Aegilops triuncialis	2	No	Not Listed	Prevalence Ind				
7.Rumex sp.	1	No	FACW	Morphological		ns' (Provide s n a separate s		ng
8. Centaurea solstitialis	1	No	Not Listed	- Problematic Hy			,	
Total Cover	107%				arophytic	vegetation (	слраш	')
Woody Vine Stratum				<sup>1</sup> Indicators of hydri	a cail and	wotland byd	rology	muet
12.				be present.	c son and	welland nyu	rology i	musi
ZTotal Cover	: %			Hydrophytic				
				Vegetation	-	_		
	of Biotic C	Crust	) %	Present?	Yes 🖲	No 🔿		
Remarks:								

US Army Corps of Engineers

	cription: (Describe to	the depth				or confirm	n the abs	sence of	indicators.)	
Depth (inches)	Matrix Color (moist)			Redox Features Color (moist) %		Loc <sup>2</sup>	Text	ıre <sup>3</sup>	Remarks	
			· · · · ·		Type <sup>1</sup>				Romano	
0-16	<u>10YR 3/4</u>		5YR 3/6	1	<u>C</u>	<u>M</u>	Silty clay	loam		
		5	YR 4/6	4	<u>C</u>	M				
						·				
					·					
					·					
<sup>1</sup> Type: C=C	oncentration, D=Deplet	on, RM=F	Reduced Matrix.	<sup>2</sup> Locatio	on: PL=Por	e Lining, R	C=Root	Channel,	M=Matrix.	
<sup>3</sup> Soil Texture	es: Clay, Silty Clay, Sar	ndy Clay, I	oam, Sandy Clay	Loam, S	andy Loam	n, Clay Loa	am, Silty (	Clay Loan	n, Silt Loam, Silt, Loamy Sand, Sand.	
Hydric Soil I	ndicators: (Applicable t	o all LRRs	s, unless otherwise	noted.)			Indic	ators for I	Problematic Hydric Soils <sup>4</sup>	
Histoso			Sandy Redo	. ,					k (A9) ( <b>LRR C</b> )	
	pipedon (A2)		Stripped Ma	. ,					k (A10) ( <b>LRR B</b> )	
	istic (A3)				. ,				Vertic (F18)	
	en Sulfide (A4) d Layers (A5) ( <b>LRR C</b> )		Loamy Gley					Red Parent Material (TF2) Other (Explain in Remarks)		
	uck (A9) ( <b>LRR D</b> )		Redox Dark							
	d Below Dark Surface (A	A11)	Depleted Da		( )					
	ark Surface (A12)	,	X Redox Dep		( )					
Sandy N	Mucky Mineral (S1)		Vernal Pool	s (F9)			<sup>4</sup> Indie	cators of h	nydrophytic vegetation and	
Sandy (	Gleyed Matrix (S4)						W	etland hy	drology must be present.	
Restrictive	Layer (if present):									
Type:										
Depth (in	ches):						Hydri	c Soil Pre	esent? Yes 💿 No 🔿	
Remarks:										
HYDROLO	GY									
Wetland Hy	drology Indicators:							Seconda	ry Indicators (2 or more required)	
Primary Indi	cators (any one indicato	r is suffici	ent)					Wate	er Marks (B1) ( <b>Riverine</b> )	
Surface	Water (A1)		Salt Crust	(B11)				C Sedii	ment Deposits (B2) ( <b>Riverine</b> )	
High Wa	ater Table (A2)		Biotic Crus	st (B12)				Drift	Deposits (B3) (Riverine)	
Saturati	on (A3)		Aquatic In		tes (B13)			🗙 Drair	nage Patterns (B10)	
Water N	/larks (B1) (Nonriverine	e)	Hydrogen	Sulfide 0	Odor (C1)				Season Water Table (C2)	
Sedime	nt Deposits (B2) (Nonri	verine)	Oxidized F	Rhizosph	eres along	Living Roo	ots (C3)	Thin	Muck Surface (C7)	
Drift De	posits (B3) (Nonriverin	e)	Presence	of Reduc	ced Iron (C	4)		Cray	fish Burrows (C8)	
Surface	Soil Cracks (B6)		Recent Iro	n Reduc	tion in Plov	wed Soils (	C6)	X Satu	ration Visible on Aerial Imagery (C9)	
Inundat	ion Visible on Aerial Ima	igery (B7)	Other (Exp	olain in R	Remarks)			Shall	low Aquitard (D3)	
Water-S	Stained Leaves (B9)							FAC-	-Neutral Test (D5)	

	00)			
Field Observations:				
Surface Water Present?	Yes 🔿	No 💿	Depth (inches):	
Water Table Present?	Yes 🔿	No 💿	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes 🔿	No 💿	Depth (inches):	Wetland Hydrology Present? Yes   No
Describe Recorded Data (st	ream gauge,	monitoring	well, aerial photos, previou	is inspections), if available:
Remarks:				

Project/Site: Janus Solar	C	ity/County:Co	olusa County		Sampling Date:1	/21/2021
Applicant/Owner: RWE Solar Development, LLC			Ş	State:CA	Sampling Point:7	-1 up
Investigator(s):Daniel Berg, Monique O'Conner	S	Section, Town	ship, Range:1-3	, 25, 26, 29, 30	, 35; 14N, 15N;	3W, 4W
Landform (hillslope, terrace, etc.): Hillslope	L	_ocal relief (co	oncave, convex,	none):Concave	Slo	pe (%):10
Subregion (LRR):C - Mediterranean California	Lat:Refer	to Map	Long:	Refer to Map	Datu	m:N/A
Soil Map Unit Name: Ayar clay				NWI classific	ation:None	
Are climatic / hydrologic conditions on the site typical for	or this time of yea	r?Yes 💽	No 🔿 🛛 (	If no, explain in R	emarks.)	
Are Vegetation 🗙 Soil 🗌 or Hydrology 🗌	significantly d	listurbed?	Are "Normal	Circumstances" p	oresent? Yes 💿	No 🔿
Are Vegetation Soil or Hydrology	naturally prob	lematic?	(If needed, e	xplain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site m	ap showing s	ampling p	oint locatio	ns, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes	No 💿					
Hydric Soil Present? Yes	No 💿		ampled Area	× 0		
Wetland Hydrology Present? Yes	No 💿		a Wetland?	Yes O	No 💿	

Remarks: Project site is actively grazed by cattle throughout.

	Absolute	Dominant	Indicator	Dominance Test w	vorkshee	et:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	nt Specie	s		
1.				That Are OBL, FAC				(A)
2.				Total Number of Dominant				
3.				Species Across All		3		(B)
4.				- Boroont of Dominor	at Spacia	•		
Total Cove	r: %			<ul> <li>Percent of Dominar</li> <li>That Are OBL, FAC</li> </ul>			) %	(A/B)
Sapling/Shrub Stratum						01.	) /0	(,,,_)
1.				Prevalence Index	workshe	et:		
2.				Total % Cover	of:	Multiply	/ by:	-
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5.				FAC species	5	x 3 =	15	
Total Cove	r: %			FACU species	73	x 4 =	292	
Herb Stratum				UPL species	35	x 5 =	175	
<sup>1</sup> .Erodium sp.	40	Yes	FACU	Column Totals:	113	(A)	482	(B)
2. Aegilops triuncialis	30	Yes	Not Listed	_		. ,		. ,
3. Avena sp.	30	Yes	FACU	Prevalence In	dex = B/	/A =	4.27	
4. Achyrachaena mollis	5	No	FAC	Hydrophytic Vege				
5. Croton setiger	3	No	Not Listed	Dominance Te	st is >50%	%		
6.Medicago polymorpha	3	No	FACU	Prevalence Ind				
7.Plantago erecta	2	No	Not Listed	Morphological		ons <sup>1</sup> (Provide on a separate		ng
8.							,	<b>`</b>
Total Cove	r: 113%			- Problematic Hy	/dropnytic	c vegetation	(Explain	)
Woody Vine Stratum	110 /0			1				
1				<ul> <li><sup>1</sup>Indicators of hydrid</li> <li>be present.</li> </ul>	c soil and	d wetland hy	Irology I	nust
2								
Total Cove	r: %			Hydrophytic				
% Bare Ground in Herb Stratum0 % Cove	r of Biotic (	Crust (	) %	Vegetation Present?	Yes 🔿	No 🖲		
Remarks:				<u> </u>				

Profile Des	cription: (Describe t	o the depth r	needed to docu	ment the i	ndicator	or confirm	n the absence of indicators.)
Depth	Matrix			x Features			
(inches)	Color (moist)	% (	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks
0-16	10YR 4/4	100					Clay loam
				·			
				·			
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM=Re	duced Matrix.	<sup>2</sup> Location	: PL=Pore	Lining, RC	C=Root Channel, M=Matrix.
						-	m, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand
Hydric Soil	Indicators: (Applicable	e to all LRRs,	unless otherwise	e noted.)			Indicators for Problematic Hydric Soils <sup>4</sup> :
Histoso	· · /		Sandy Redo	x (S5)			1 cm Muck (A9) ( <b>LRR C</b> )
	pipedon (A2)		Stripped Ma	, ,			2 cm Muck (A10) ( <b>LRR B</b> )
	Histic (A3)		Loamy Muc	•	. ,		Reduced Vertic (F18)
	en Sulfide (A4)	<b>`</b>	Loamy Gley Depleted M		(F2)		Red Parent Material (TF2) Other (Explain in Remarks)
	ed Layers (A5) ( <b>LRR C</b> luck (A9) ( <b>LRR D</b> )	)	Redox Darl	. ,	(F6)		
	ed Below Dark Surface	(A11)	Depleted D		( )		
	Dark Surface (A12)		Redox Dep		( )		
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)			<sup>4</sup> Indicators of hydrophytic vegetation and
Sandy	Gleyed Matrix (S4)						wetland hydrology must be present.
Restrictive	Layer (if present):						
Type:							
Depth (ir	nches):						Hydric Soil Present? Yes 🔿 No 💿
Remarks:							
HYDROLO	DGY						
Wetland Hy	vdrology Indicators:						Secondary Indicators (2 or more required)
Primary Ind	icators (any one indica	tor is sufficier	nt)				Water Marks (B1) ( <b>Riverine</b> )
Surface	e Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Riverine)
📃 🗌 High W	ater Table (A2)		Biotic Cru	st (B12)			Drift Deposits (B3) ( <b>Riverine</b> )
	tion (A3)		·	vertebrate	· · ·		Drainage Patterns (B10)
	Marks (B1) ( <b>Nonriveri</b>		Hydrogen		. ,		Dry-Season Water Table (C2)
	ent Deposits (B2) (Non	,			-	Living Roo	
	eposits (B3) (Nonriver	ine)		of Reduce	``	,	Crayfish Burrows (C8)
	e Soil Cracks (B6)					ed Soils (C	
Inundat	tion Visible on Aerial Ir	nagery (B7)	Other (Ex	plain in Re	emarks)		Shallow Aquitard (D3)

enalien / iquitara (Be)	
FAC-Neutral Test (D5)	

Water-Stained Leaves (B	39)		FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present?	Yes 🔿	No 💽	Depth (inches):	
Water Table Present?	Yes 🔿	No 💿	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes 🔿	No 💿	Depth (inches):	Wetland Hydrology Present? Yes O No 💿
,	eam gauge, r	monitoring	well, aerial photos, p	previous inspections), if available:
Remarks:				

Project/Site: Janus Solar	City/County:Colusa County	/	Sampling Date: 1/21/2021
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:7-1 wet
Investigator(s):Daniel Berg, Monique O'Conner	Section, Township, Range: ]	-3, 25, 26, 29, 30	, 35; 14N, 15N; 3W, 4W
Landform (hillslope, terrace, etc.): Pond	Local relief (concave, conve	ex, none):Concave	Slope (%):0
Subregion (LRR):C - Mediterranean California	Refer to Map	g:Refer to Map	Datum:N/A
Soil Map Unit Name: Ayar clay		NWI classifie	cation:R4SBC
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes 💿 No 🔿	(If no, explain in F	Remarks.)
Are Vegetation X Soil X or Hydrology X signific	cantly disturbed? Are "Norm	al Circumstances"	present? Yes 💿 No 🔿
Are Vegetation Soil or Hydrology natura	Ily problematic? (If needed	, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving sampling point locat	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes 💿 No 🕥			
Hydric Soil Present? Yes  No	Is the Sampled Area	I	

Wetland Hydrology Present?	Yes 💽	No 🔘	within a Wetland?	Yes 💽	No 🔿	
Remarks: Project site is actively	grazed by cattle	throughout.				
		-				

	Absolute	Dominant		Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominan That Are OBL, FAC			2	(A)
2.				Total Number of Do	minant			
3.				Species Across All S			2	(B)
4.				<ul> <li>Percent of Dominan</li> </ul>	t Spacia			
Total Cove Sapling/Shrub Stratum	r: %			That Are OBL, FACW, or FAC: 100.0			0.0 %	(A/B)
1.				Prevalence Index worksheet:				
2.				Total % Cover of	of:	Multip	ly by:	_
3.				OBL species		x 1 =	0	
4.				FACW species	3	x 2 =	6	
5.				FAC species	3	x 3 =	9	
Total Cove	r: %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
1.Polygonum aviculare	3		FAC	Column Totals:	6	(A)	15	(B)
<sup>2</sup> . <i>Phalaris sp.</i>	3	Yes	FACW	- Drawland In	Law D	٨	0.50	
3				Prevalence Inc			2.50	
4.				Hydrophytic Veget				
5.				X Dominance Tes				
6.	_			Prevalence Inde				
7				Morphological A				ng
8				- Problematic Hy			,	)
Total Cove Woody Vine Stratum	r: 6 %				aropriyac	vegetation		,
1.				<sup>1</sup> Indicators of hydric	soil and	wetland h	ydrology r	nust
2.		·		be present.				
Total Cover	r: %			Hydrophytic				
% Bare Ground in Herb Stratum     94 %     % Cover of Biotic Crust     0 %     Vegetation       Yes     Yes						No (	$\supset$	
Remarks:				1				

Profile Des	scription: (Describe to	the de	pth needed to docun	nent the	indicator	or confirn	n the ab	sence of i	ndicator	·s.)		
Depth	Matrix			Feature						,		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure <sup>3</sup>		Rema	ırks	
0-16	10YR 4/3	80	2.5YR 3/6	10	С	М	Silty cla	у				
			5YR 4/6	10	C	M						
					·	·						
						. <u> </u>						
<sup>1</sup> Type: C=0	Concentration, D=Deplet	ion, RN	I=Reduced Matrix.	<sup>2</sup> Locatio	on: PL=Por	e Lining, R	C=Root	Channel, I	M=Matrix			
<sup>3</sup> Soil Textur	res: Clay, Silty Clay, Sa	ndy Cla	y, Loam, Sandy Clay I	Loam, S	andy Loam	n, Clay Loa	am, Silty	Clay Loam	n, Silt Loa	am, Silt, Loar	ny Sand, Sand.	
Hydric Soil	Indicators: (Applicable	to all Li	RRs, unless otherwise	noted.)						tic Hydric So	ils:	
Histoso			Sandy Redox	. ,				1 cm Mucł	. , .	,		
	Epipedon (A2)		Stripped Ma	. ,				2 cm Muck (A10) ( <b>LRR B</b> )				
	Histic (A3)		Loamy Mucl				Reduced Vertic (F18) Red Parent Material (TF2)					
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)									( )			
Stratified Layers (A5) (LRR C)       Depleted Matrix (F3)         1 cm Muck (A9) (LRR D)       Redox Dark Surface (F6)					Other (Exp	nain in R	emarks)					
	ed Below Dark Surface (	Δ11)	Depleted Da		. ,							
	Dark Surface (A12)	ATT)	Redox Depr		( )							
	Mucky Mineral (S1)		Vernal Pools		(10)		<sup>4</sup> Indicators of hydrophytic vegetation and					
	Gleyed Matrix (S4)			- ()						nust be prese		
Restrictive	e Layer (if present):											
Type:												
Depth (ii	nches):						Hydri	c Soil Pre	sent?	Yes 💿	No	
Remarks:										~		
HYDROLO	DGY											
Wetland H	ydrology Indicators:							Secondar	y Indicate	ors (2 or mor	e required)	
Primary Ind	dicators (any one indicate	or is suf	ficient)					Wate	r Marks (	(B1) ( <b>Riverin</b>	e)	
Surface	e Water (A1)		Salt Crust	(B11)				Sedir	nent Dep	osits (B2) (R	(iverine)	
High W	/ater Table (A2)		Biotic Crus	t (B12)				Drift I	Deposits	(B3) (Riveri	ne)	
Satura	tion (A3)		Aquatic Inv	vertebrat	tes (B13)			Drain	age Patt	erns (B10)		
X Water	Marks (B1) (Nonriverine	e)	Hydrogen	Sulfide (	Odor (C1)			Dry-S	Season W	Vater Table (	C2)	
	ent Deposits (B2) ( <b>Nonri</b>	verine	) Oxidized R	hizosph	eres along	Living Roo	ots (C3)	Thin	Muck Su	rface (C7)		
Drift De	eposits (B3) ( <b>Nonriverin</b>	<b>e</b> )	Presence of	of Reduc	ced Iron (C	4)		Crayf	ish Burro	ows (C8)		
X Surface	e Soil Cracks (B6)		Recent Iro	n Reduc	tion in Plov	ved Soils (	C6)	Satur	ation Vis	ible on Aeria	l Imagery (C9)	
<u> </u>												

X Surface Soil Cracks (B6	X Surface Soil Cracks (B6)			Recent Iron Reduction in Plowed Soils (C6)			Saturation Visible on Aerial Imagery (C9)				
X Inundation Visible on A	erial Imagery	(B7)	Other (Explain in Remarks	s)	Shallow Aquitard (D3)						
Water-Stained Leaves (	B9)				FAC-Neutral	Test (D5)					
Field Observations:											
Surface Water Present?	Yes 🔿	No 💿	Depth (inches):								
Water Table Present?	Yes 🔿	No 💿	Depth (inches):								
Saturation Present? (includes capillary fringe)	Yes 🔿	No 💿	Depth (inches):	Wetland Hy	drology Present?	Yes 💿	No 🔿				
Describe Recorded Data (st	ream gauge,	monitoring	well, aerial photos, previou	s inspections), if availa	able:						
Remarks:											

Project/Site: Janus Solar	City/County:Colusa Cour	City/County:Colusa County				
Applicant/Owner: RWE Solar Development, LLC		State:CA	Sampling Point:8-1 wet			
Investigator(s): Daniel Berg, Monique O'Conner	Section, Township, Range	Section, Township, Range:1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W				
Landform (hillslope, terrace, etc.): Disturbed drainage	Local relief (concave, con	Local relief (concave, convex, none):Concave				
Subregion (LRR):C - Mediterranean California	at:Refer to Map	ong:Refer to Map	Datum:N/A			
Soil Map Unit Name: Ayar clay		NWI classifi	cation:R4SBC			
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes 💿 No 🔿	(If no, explain in F	Remarks.)			
Are Vegetation X Soil X or Hydrology X sign	ificantly disturbed? Are "No	rmal Circumstances"	present? Yes 💿 No 🔿			
Are Vegetation Soil or Hydrology natu	rally problematic? (If neede	ed, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map sho	owing sampling point loca	ations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes  No (						
Hydric Soil Present? Yes No (	-	ea				
Wetland Hydrology Present? Yes No (	within a Wetland?	Yes 🔿	No 💿			
Remarks: Project site is actively grazed by cattle throug	hout.					

Tree Stratum (Use scientific names.)	Absolute		Indicator	Dominance Test w				
	% Cover	Species?		Number of Dominar				( • )
1.Salix laevigata	25	Yes	FACW	That Are OBL, FAC	W, or FA	C: 3		(A)
2				Total Number of Do	minant			
3				Species Across All	Strata:	5		(B)
4				Percent of Dominar	t Species			
Total Cover Sapling/Shrub Stratum	: 25 %			That Are OBL, FAC			0 %	(A/B)
1.Salix laevigata	5	Yes	FACW	Prevalence Index worksheet:				
2.				Total % Cover of: Multiply by:				
3.				OBL species		x 1 =	0	
4.				FACW species	35	x 2 =	70	
5.				FAC species	15	x 3 =	45	
Total Cover	5 %			FACU species	3	x 4 =	12	
Herb Stratum	. 570			UPL species	30	x 5 =	150	
<sup>1</sup> .Aegilops triuncialis	15	Yes	Not Listed	Column Totals:	83	(A)	277	(B)
2. Avena sp.	15	Yes	UPL	_				. ,
3. Festuca perennis	15	Yes	FAC	Prevalence In			3.34	
4. Phalaris sp.	5	No	FACW	Hydrophytic Veget	ation Inc	dicators:		
5. Erodium sp.	3	No	FACU	Dominance Tes	st is >50%	6		
6.				Prevalence Ind	ex is ≤3.0	) <sup>1</sup>		
7.				Morphological				ng
8.						n a separate	,	
Total Cover	53 %			- Problematic Hy	drophytic	Vegetation'	(Explair	1)
Woody Vine Stratum	55 70							
1				<sup>1</sup> Indicators of hydric	c soil and	wetland hyd	Irology	must
2				be present.				
Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 47 % % Cover of Biotic Crust 0 % Present? Yes • No								
Remarks:				_				

Brofilo Dos	cription: (Described	to the de	nth pooded to docu	nont th	o indicator	or confirm	n the absence of indicators.)
		to the de	-			or comm	in the absence of indicators.
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks
0-8	<u>10YR 3/4</u>	98	5YR 4/6	2	<u>C</u>	<u>M</u>	Silty clay loam
					_	·	
						·	
						·	
$\frac{1}{1}$	oncentration, D=Depl	lotion PN		<sup>2</sup> 1 opoti			C=Root Channel, M=Matrix.
							am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand
					-		Indicators for Problematic Hydric Soils:
Histosol		le to all Li	RRs, unless otherwise				1 cm Muck (A9) (LRR C)
	pipedon (A2)		Stripped Ma	. ,	)		$\sim$ 2 cm Muck (A10) ( <b>LRR B</b> )
	istic (A3)		Loamy Muc				Reduced Vertic (F18)
	en Sulfide (A4)		Loamy Gley				Red Parent Material (TF2)
	d Layers (A5) (LRR C	<b>C</b> )	Depleted M		. ,		Other (Explain in Remarks)
1 cm Mu	uck (A9) (LRR D)	,	Redox Dark				
Deplete	d Below Dark Surface	e (A11)	Depleted D	ark Surf	ace (F7)		
Thick D	ark Surface (A12)		Redox Dep	ressions	s (F8)		
Sandy N	/lucky Mineral (S1)		Vernal Pool	s (F9)			<sup>4</sup> Indicators of hydrophytic vegetation and
	Gleyed Matrix (S4)						wetland hydrology must be present.
Restrictive	Layer (if present):						
Type:Co	mpacted soil						
Depth (in	ches):8						Hydric Soil Present? Yes O No 💿
Remarks:							
HYDROLO	GY						
Wetland Hv	drology Indicators:						Secondary Indicators (2 or more required)
	cators (any one indica	ator is sut	(ficient)				Water Marks (B1) ( <b>Riverine</b> )
	Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) ( <b>Riverine</b> )
	ater Table (A2)		Biotic Crus	` '			Drift Deposits (B3) ( <b>Riverine</b> )
Saturati			Aquatic In		tes (B13)		Drainage Patterns (B10)
	larks (B1) ( <b>Nonriveri</b>	ino)	·		Odor (C1)		Dry-Season Water Table (C2)
	nt Deposits (B2) ( <b>Nor</b>				neres along	Living Por	
					ced Iron (C	-	Crayfish Burrows (C8)
	posits (B3) ( <b>Nonriver</b>	me)			(	,	
	Soil Cracks (B6)				ction in Plov	veu Solis (	
	on Visible on Aerial I	magery (i	B7) Other (Exp	Jiain in r	(emarks)		Shallow Aquitard (D3)
	stained Leaves (B9)						FAC-Neutral Test (D5)
Field Obser		~					
Surface Wat		es 🔿	No 💿 Depth (in				
Water Table	Present? Ye	es 🔿	No  Depth (in	ches):			
Saturation P (includes ca		es ()	No <ul> <li>Depth (in</li> </ul>	ches):		Wetl	and Hydrology Present? Yes 🔿 No 💿

(includes capillary fringe) Wetland Hydroid Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Janus Solar	City/Count	Scolusa County	Sampling Date: 1/21/2021			
Applicant/Owner: RWE Solar Development, LLC		S	State:CA	Sampling Point:	9-1 wet	
Investigator(s): Daniel Berg, Monique O'Conner	Section, T	Section, Township, Range:1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4				
Landform (hillslope, terrace, etc.): Plain	Local relie	ef (concave, convex,	s Sic	ope (%):1		
Subregion (LRR):C - Mediterranean California	Lat:Refer to Map	Long:I	Refer to Map	Datum:N/A		
Soil Map Unit Name: Ayar clay			NWI classifi	cation:R4SBC		
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes	No (I	If no, explain in F	Remarks.)		
Are Vegetation X Soil X or Hydrology X sig	gnificantly disturbed?	Are "Normal	Circumstances"	present? Yes 💽	No 🔿	
Are Vegetation Soil or Hydrology na	aturally problematic?	(If needed, ex	xplain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing samplin	g point location	ns, transects	, important fe	atures, etc.	
Hydrophytic Vegetation Present? Yes 🕥 No						
Hydric Soil Present? Yes O No	) 🕢 🛛 Ist	he Sampled Area				
Wetland Hydrology Present? Yes   No	v 💿 🛛 🖉 wit	hin a Wetland?	Yes 🔿	No 💿		
Remarks: Project site is actively grazed by cattle through	ughout.					

#### VEGETATION

	Absolute	Dominant		Dominance Test w	vorksheet	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	nt Species	6		
1.Salix laevigata				That Are OBL, FAC	W, or FA	C: 0		(A)
2				Total Number of Do	ominant			
3.				Species Across All	Strata:	2		(B)
4.				<ul> <li>Percent of Dominar</li> </ul>	nt Spacias			
Total Cove	r: %			That Are OBL, FAC			%	(A/B)
Sapling/Shrub Stratum							/0	· · /
1.Salix laevigata				Prevalence Index worksheet:				
2				Total % Cover of: Multiply by:				-
3.				OBL species		x 1 =	0	
4.				FACW species	3	x 2 =	6	
5.				FAC species		x 3 =	0	
Total Cover	r: %			FACU species	5	x 4 =	20	
Herb Stratum				UPL species	21	x 5 =	105	
<sup>1</sup> .Centaurea solstitialis	10	Yes	Not Listed	Column Totals:	29	(A)	131	(B)
<sup>2</sup> .Aegilops triuncialis	10	Yes	Not Listed					
<sup>3</sup> .Medicago polymorpha	5	No	FACU	Prevalence In			4.52	
<sup>4</sup> . <i>Rumex sp.</i>	3	No	FACW	Hydrophytic Vege				
5. <i>Hemizonia congesta</i>	1	No	Not Listed	Dominance Te				
6.				Prevalence Ind				
7.				Morphological				ng
8.						n a separate s	,	、 、
Total Cover	r: 29 %			Problematic Hy	/drophytic	Vegetation' (	Explain	1)
Woody Vine Stratum	27 70							
1				<sup>1</sup> Indicators of hydri	c soil and	l wetland hyd	rology	must
2								
Total Cover	r: %			Hydrophytic				
% Bare Ground in Herb Stratum 71 % % Cover	r of Biotic C	Crust 0	%	Present?	Yes 🔿	No 💿		
Remarks:								
2	, -	Crust	%	be present. Hydrophytic Vegetation				

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Profile Des	cription: (Describe t	o the de	pth needed to document the	indicator	or confirm	m the absence of indicators.)		
Depth	Matrix		Redox Featur	es				
(inches)	Color (moist)	%	Color (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup> Remarks		
0-6	10YR 3/4	99	5YR 4/6 1	С	М	Clay loam		
	,							
Depth (inches):6						Hydric Soil Present? Yes 🔿 No 💿		
Remarks: S	oil is very rocky and	d slight	ly moist.					

# HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)			
Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) ( <b>Riverine</b> )			
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)			
Saturation (A3)	Aquatic Invertebrates (B13)	X Drainage Patterns (B10)			
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roo	ts (C3) Thin Muck Surface (C7)			
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)			
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils (C	C6) Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes O No 💽	Depth (inches):				
Water Table Present? Yes O No 💽	Depth (inches):				
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetla	and Hydrology Present? Yes 💿 No 🔿			
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), i	if available:			
Remarks: Bed and bank only present for a sho	ort distance due to trampling by cows.				
	1 0 9				

Project/Site: Janus Solar		City/County:C	olusa County	Sampling Date: 1/21/2021					
Applicant/Owner: RWE Solar Development, LLC			Sta	te:CA	Sampling Point	:10-1 up			
Investigator(s): Daniel Berg, Monique O'Conner		Section, Town	Section, Township, Range:1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W						
Landform (hillslope, terrace, etc.): Plain		Local relief (c	oncave, convex, no	S	lope (%):()				
Subregion (LRR):C - Mediterranean California	Lat:Ref	fer to Map	Long:Re	fer to Map	Dat	tum:N/A			
Soil Map Unit Name: Capay clay loam				NWI classific	cation:PSSC				
re climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)									
Are Vegetation X Soil X or Hydrology X	significantly	y disturbed?	Are "Normal Ci	rcumstances"	present? Yes	No 🔿			
Are Vegetation Soil or Hydrology	naturally pr	oblematic?	(If needed, exp	lain any answe	ers in Remarks.)				
SUMMARY OF FINDINGS - Attach site n	nap showing	g sampling p	oint locations	, transects	, important f	eatures, etc.			
Hydrophytic Vegetation Present? Yes	No 💿								
Hydric Soil Present? Yes	No 💿	Is the S	ampled Area						
Wetland Hydrology Present? Yes	within a Wetland? Yes 🔿 No 💿								
Remarks: Active agricultural area that was recent	ntly planted th	is year.							

	Absolute	Dominant		Dominance Test workshee	t:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	S			
1.				That Are OBL, FACW, or FA	C: 0		(A)	
2.				Total Number of Dominant				
3.				Species Across All Strata:	1		(B)	
4.								
Total Cove	r: %			<ul> <li>Percent of Dominant Species</li> <li>That Are OBL, FACW, or FA</li> </ul>		0/	(A/B)	
Sapling/Shrub Stratum	. /0				0.0	%	(A/D)	
1.				Prevalence Index workshee	ət:			
2.				Total % Cover of: Multiply by:				
3.				OBL species	x 1 =	0		
4.				FACW species	x 2 =	0		
5.				FAC species	x 3 =	0		
Total Cover	. %			FACU species	x 4 =	0		
Herb Stratum	,,,,			UPL species 50	x 5 =	250		
1.Triticum aestivum	50	Yes	Not Listed	Column Totals: 50	(A)	250	(B)	
2.					() ()	250	(-)	
3.				Prevalence Index = B/A = 5.00				
4.				Hydrophytic Vegetation Indicators:				
5.				Dominance Test is >50%	6			
6.				Prevalence Index is ≤3.0	) <sup>1</sup>			
7.				Morphological Adaptatio	ns <sup>1</sup> (Provide s	upporti	ng	
8.				data in Remarks or o	n a separate s	sheet)		
Total Cover				Problematic Hydrophytic	; Vegetation <sup>1</sup> (	Explain	)	
Woody Vine Stratum	50 %							
1.				<sup>1</sup> Indicators of hydric soil and	d wetland hyde	rology i	nust	
2.				be present.				
Total Cover	%			Hydrophytic				
	, •			Vegetation				
% Bare Ground in Herb Stratum 50 % % Cover	of Biotic C	Crust 0	%	Present? Yes ()	No 💽			
Remarks:								

Profile Des	scription: (Describe	to the depth	needed to docu	ment the ind	licator o	or confiri	m the absence of	indicators.)		
Depth Matrix			Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks		
0-6	10YR 3/2	100					Peat	Organic fertilizer, slightly moist		
6-12	10YR 3/2	100					Loam			
		·								
	Concentration, D=Dep	lation DM Dr		21 a a a ti a m. D		Lining F				
							RC=Root Channel,	n, Silt Loam, Silt, Loamy Sand, Sand.		
	Indicators: (Applicabl				y Luain,			Problematic Hydric Soils:		
Histoso		e to all LKKS,	Sandy Redo	-				k (A9) (LRR C)		
	Epipedon (A2)			· · /				2 cm Muck (A10) ( <b>LRR B</b> )		
Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1)								Reduced Vertic (F18)		
Hydrogen Sulfide (A4)								Red Parent Material (TF2)		
Stratified Layers (A5) (LRR C)							Other (Explain in Remarks)			
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)										
Deplet	ed Below Dark Surface	e (A11)	Depleted D	ark Surface (	(F7)					
Thick E	Dark Surface (A12)		Redox Dep	pressions (F8)	)					
Sandy Mucky Mineral (S1)						<sup>4</sup> Indicators of hydrophytic vegetation and				
Sandy	Gleyed Matrix (S4)						wetland hyd	drology must be present.		
Restrictive	e Layer (if present):									
Type:										
Depth (i	nches):						Hydric Soil Pre	esent? Yes 🔿 No 💿		
Remarks:										
HYDROLO	DGY									
Wetland Hydrology Indicators:							Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is sufficient)							Water Marks (B1) ( <b>Riverine</b> )			
Surface	e Water (A1)		Salt Crust	(B11)			Sedii	ment Deposits (B2) ( <b>Riverine</b> )		

Thinking maloatoro (any ono	indicator is su	ufficient)			Water Marks (B1) (Riverine)			
Surface Water (A1)			Salt Crust (B11)		Sediment Deposits (B2) ( <b>Riverine</b> )			
High Water Table (A2)			Biotic Crust (B12)		Drift Deposits (B3) (Riverine)			
Saturation (A3)			Aquatic Invertebrates (B13)		Drainage Patterns (B10)			
Water Marks (B1) (Non	r <b>iverine</b> )		Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	(Nonriverine	e)	Oxidized Rhizospheres along	Living Roots (C3)	Thin Muck Surface (C7)			
Drift Deposits (B3) (Non	riverine)		Presence of Reduced Iron (C	(4)	Crayfish Burrows (C8)			
Surface Soil Cracks (B6	)		Recent Iron Reduction in Plo	wed Soils (C6)	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Ae	rial Imagery	(B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)			
Water-Stained Leaves (	B9)				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 Hv	drology Present? Yes 🔿 No 💿			
(Includes capillary frinde)				wenandiny	arology Present? Tes () No (•)			
(includes capillary fringe) Describe Recorded Data (str	ream gauge,	monitoring	g well, aerial photos, previous in	-	<b>.</b>			
· · · · · · · · · · · · · · · · · · ·	ream gauge,	monitorinę	g well, aerial photos, previous in	-	<b>.</b>			
Describe Recorded Data (str	ream gauge,	monitorinç	g well, aerial photos, previous in	-	<b>.</b>			
	ream gauge,	monitorinę	g well, aerial photos, previous in	-	<b>.</b>			
Describe Recorded Data (str	ream gauge,	monitorinę	g well, aerial photos, previous in	-	<b>.</b>			
Describe Recorded Data (str	ream gauge,	monitorin(	g well, aerial photos, previous in	-	<b>.</b>			
Describe Recorded Data (str	ream gauge,	monitorin(	g well, aerial photos, previous in	-	<b>.</b>			

			City/County:Colusa Con	unty	Sampling Date: 1/21/2021		
Applicant/Owner: RWE Solar Developm	ent, LLC			State:CA	Sampling Point:10-1 wet		
Investigator(s): Daniel Berg, Monique C	)'Conner		Section, Township, Rang	ge:1-3, 25, 26, 29, 30	), 35; 14N, 15N; 3W, 4W		
Landform (hillslope, terrace, etc.): Disturb	ed drainage	e	Local relief (concave, co	onvex, none):Concave	Slope (%):1		
Subregion (LRR):C - Mediterranean Cal	ifornia	Lat:Re	fer to Map	Long:Refer to Map	Datum:N/A		
Soil Map Unit Name: Capay clay loam				NWI classific	ation:PSSC		
Are climatic / hydrologic conditions on the	site typical fo	r this time of y	vear? Yes  No	(If no, explain in R	emarks.)		
Are Vegetation 🗙 Soil 🗙 or Hydr	ology 🗙	significantl	y disturbed? Are "N	lormal Circumstances" p	oresent? Yes 💿 No 🔿		
Are Vegetation Soil or Hydr	ology	naturally p	roblematic? (If nee	ded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - Atta	ch site ma	ap showing	g sampling point loo	cations, transects,	, important features, etc.		
Hydrophytic Vegetation Present?	Yes 🔘	No 💿					
Hydric Soil Present?	Yes 🔘	No 💿	Is the Sampled	Area			
Wetland Hydrology Present?	Yes 🔘	No 🜘	within a Wetland	Yes 🔿	No 💿		

	Absolute		Indicator	Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?		Number of Dominar				
1.Salix laevigata	5	Yes	FACW	That Are OBL, FAC	W, or FA	C: 1		(A)
2				Total Number of Do	minant			
3				Species Across All	Strata:	2		(B)
4				Percent of Dominar	nt Species			
Total Cover	r: 5 %			That Are OBL, FAC			) %	(A/B)
Sapling/Shrub Stratum								
1				Prevalence Index				
2				Total % Cover	of:	Multiply		
3				OBL species		x 1 =	0	
4.				FACW species	5	x 2 =	10	
5				FAC species		x 3 =	0	
Total Cover	: %			FACU species		x 4 =	0	
Herb Stratum				UPL species	41	x 5 =	205	
<sup>1</sup> . <i>Triticum aestivum</i>	40	Yes	Not Listed	Column Totals:	46	(A)	215	(B)
<sup>2</sup> .Malva parviflora	1	No	Not Listed				=	
3.				Prevalence In			4.67	
4.				Hydrophytic Vege				
5.				Dominance Te				
6.				Prevalence Ind				
7.				Morphological		ns <sup>1</sup> (Provide s n a separate s		ng
8.							,	
Total Cover	41 %			- Problematic Hy	arophylic	vegetation (	Explair	1)
Woody Vine Stratum	11 /0			1				
1				<sup>1</sup> Indicators of hydrid be present.	c soil and	wetland hyd	rology	must
2								
Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 59 % % Cover	of Biotic C	Crust (	) %	Present?	Yes ()	No 💿		
Remarks:				-				

Brofile Dec	cription: (Describe to	the depth	needed to decum	ant the indicator	or oonfirn	n the cheenee of	indiantora)		
		the depth			or comm	in the absence of	indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features % Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks		
0-6	10YR 3/2	100				Peat	Organic fertilizer, slightly moist		
	· ·						Organic returner, sugnity moist		
6-16	10YR 3/2	100				Loam			
<sup>1</sup> Type: C=C	oncentration, D=Deple	tion, RM=R	educed Matrix.	<sup>2</sup> Location: PL=Pore	Lining, R	C=Root Channel,	M=Matrix.		
<sup>3</sup> Soil Texture	es: Clay, Silty Clay, Sa	andy Clay, L	oam, Sandy Clay I	_oam, Sandy Loam	, Clay Loa	m, Silty Clay Loa	m, Silt Loam, Silt, Loamy Sand, Sand.		
Hydric Soil I	ndicators: (Applicable	to all LRRs	unless otherwise	noted.)			Problematic Hydric Soils:		
Histoso			Sandy Redox	. ,			ck (A9) ( <b>LRR C</b> )		
	pipedon (A2)		Stripped Ma			2 cm Muck (A10) ( <b>LRR B</b> )			
	listic (A3)			(F1) (F1)		Reduced Vertic (F18) Red Parent Material (TF2)			
	en Sulfide (A4) d Layers (A5) ( <b>LRR C</b> )		Depleted Ma	ed Matrix (F2)		Other (Explain in Remarks)			
	uck (A9) (LRR D)								
	d Below Dark Surface	(A11)							
	ark Surface (A12)		Redox Depr	ark Surface (F7) essions (F8)					
Sandy I	Mucky Mineral (S1)			<sup>4</sup> Indicators of	hydrophytic vegetation and				
Sandy (	Gleyed Matrix (S4)		wetland hy	/drology must be present.					
Restrictive	Layer (if present):								
Type:									
Depth (in	iches):		Hydric Soil Pi	resent? Yes 🔿 No 💿					
Remarks:									
HYDROLC	)GY								
Wetland Hy	drology Indicators:		Seconda	ary Indicators (2 or more required)					
-	cators (any one indicat	or is sufficie	Wat	er Marks (B1) ( <b>Riverine</b> )					
	Water (A1)		Salt Crust (	(B11)		□ □ Sed	iment Deposits (B2) (Riverine)		
	ater Table (A2)		Drift Deposits (B3) ( <b>Riverine</b> )						
	ion (A3)			inage Patterns (B10)					
	/larks (B1) ( <b>Nonriverin</b>	e)	Dry-Season Water Table (C2)						
	nt Deposits (B2) ( <b>Non</b>		pots (C3) Thin Muck Surface (C7)						
	posits (B3) ( <b>Nonriveri</b>			of Reduced Iron (C4	-	Crayfish Burrows (C8)			
	Soil Cracks (B6)	,		n Reduction in Plow	,	· · · ·	uration Visible on Aerial Imagery (C9)		
	ion Visible on Aerial Im	agery (B7)		lain in Remarks)	(	, L	llow Aquitard (D3)		
	Stained Leaves (B9)	5 , ( )		/			C-Neutral Test (D5)		
Field Obser							• •		

Surface Water Present?

(includes capillary fringe)

Water Table Present?

Saturation Present?

Yes 🔿

Yes ()

Yes 🔿

No 💿

No 💿

No 💿

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Depth (inches):

Depth (inches):

Depth (inches):

Remarks:Significantly disturbed by active agricultural use, may have had hydrology before but is no longer present.

C

No

Wetland Hydrology Present? Yes

# APPENDIX B PHOTOGRAPHS





