Appendix E: Biological Resources

E-1: Line 406/407 Jurisdictional Delineation Reports

Draft Report

PG&E Line 406 Pipeline Project Wetland Delineation Report

Prepared for Pacific Gas and Electric

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Abbreviations and Acronyms

CDFG	California Department of Fish and Game
CFR	Code of Federal Regulations
CWA	Clean Water Act
EPA	U.S. Environmental Protection Agency
GIS	geographic information system
GPS	global positioning system
HUC	Hydrologic Unit Code
NRCS	Natural Resources Conservation Service
OHWM	Ordinary High Water Mark
PG&E	Pacific Gas and Electric Company
RWQCB	Regional Water Quality Control Board
U.S.	United States
USGS	United States Geological Survey
USACE	U.S. Army Corps of Engineers

To meet the projected increase in customer demand in the Central Valley over the next 10 to 15 years, Pacific Gas and Electric Company (PG&E) is constructing a natural gas transmission in Yolo County, California. The proposed project discussed in this report includes the construction of approximately 14 miles of 30-inch-diameter natural gas transmission pipeline. The completed pipeline would operate at a maximum pressure of 975 pounds per square inch and transport up to 475,000,000 cubic feet of natural gas per day.

Prior to the waters of the United States (U.S.) and wetlands delineation survey, a reconnaissance-level field survey was conducted to determine the potential environmental consequences for four potential alternatives for the proposed project. The final route selection was based on the results of the constraints identified in the *L400/401 to L172A Feasibility and Routing Study* (CH2M HILL, 2006). The selected route is a slightly modified version of alternative route 3.

This report presents the findings of a delineation of waters of the U.S. and wetlands conducted by CH2M HILL biologists Tim Armstrong and Russell Huddleston on April 4 and 5, 2007. Additional data were collected on March 28, 2008 following a site visit with the U.S. Army Corps of Engineers (USACE). The delineation was conducted in accordance with the USACE's *Wetland Delineation Manual* (Environmental Laboratory, 1987) and the *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual*: *Arid West Region* (USACE, 2006).

Twenty-two sample locations were established in topographic depressions, swales, and other low areas in the approximately 1,697-acre study area. The delineation identified a total of 1.41 acres of seasonal wetland, seasonal wetland swales, and other waters in the study area that could potentially fall under the USACE's jurisdiction under the Federal Clean Water Act (CWA). Several other features, including a constructed pond, irrigation canals, agricultural drainage ditches, and upland swales, also were identified in the study area, but are not likely to fall under the USACE's jurisdiction. The USACE is ultimately responsible for determining the limits of its jurisdiction for the purposes of assessing impacts on waters of the U.S. (including wetlands). The information provided in this report is intended to assist the USACE with that determination.

1.1 Project Description

To meet the projected increase in demand for natural gas in the Central Valley over the next 10 to 15 years, PG&E has developed a long-range investment plan to upgrade and increase the local natural gas transmission system in the area. Included in that plan is the proposed Line 406 project, which consists of approximately 14 miles of 30-inch-diameter natural gas transmission pipeline that would operate at a maximum of 975 pounds per square inch and would transport up to 475,000,000 cubic feet of natural gas per day. In addition to the main pipeline, PG&E plans to construct support structures including main line and bridle valves and blow-off stacks, as well as a pressure limiting and metering station at Line 172A. Above ground line-markers and electrolysis test stations will be installed at selected locations along the alignment. The proposed in-service date is October 1, 2009, with the start of construction projected to be May 1, 2009.

1.2 Project Location

This report covers the proposed Line 406 pipeline that originates at the existing Line 400/401 approximately 1.7 miles north of the town of Capay, and traverses approximately 14 miles to the east to just beyond the existing Line 172A, near the town of Yolo, east of Interstate 5 (Figure 1). The project is located in Yolo County, approximately 4 miles northwest of Woodland. The project starts in Township 10 north, Range 02 east, Section 11 in the Esparto United States Geologic Survey (USGS) 7.5-minute quadrangle, traverses the northern part of the Madison quadrangle, and terminates in Township 10 north, Range 01 east, section 1 of the Woodland quadrangle (Mount Diablo Meridian). The start of the project is located at 38° 43′ 52″ north latitude, 122° 03′ 22″ west longitude and terminates at 38° 44′ 35″ north latitude, 121° 48′ 09″ west longitude.

For the purpose of this report, the proposed alignment has been divided into four segments based on land use, vegetation communities, and bisecting roads. Descriptions and locations of the community types found within the project analysis area are provided in the following sections.

- Segment 1-L400/401 to County Road 85, approximately 0.6 mile of orchards;
- Segment 2-County Road 85 to Interstate 505, approximately 5.0 miles of irrigated crops;
- Segment 3 Interstate 505 to County Road 95A, approximately 5.5 miles of annual grassland in the Dunnigan Hills; and
- Segment 4 County Road 95A to L172A, approximately 3.0 miles of irrigated crops.

1.3 Environmental Setting

The project area is located in the west-central portion of the Sacramento Valley. The eastern and western ends of the project are located in the Yolo Alluvial Fans ecological subsection at elevations ranging from 75 to 200 feet. This subsection is characterized by a broad alluvial plain comprised of Pleistocene and recent alluvium from granitic, volcanic, sedimentary, and metamorphic rock sources. The central section of the project crosses through the Dunnigan Hills subsection, which is an extension of the northern California Interior Coast Range. This area is characterized by well rounded, highly dissected hills derived from nonmarine Pliocene mudstones, sandstones, and conglomerates. Slopes are generally low to moderate with elevations ranging from 200 to 250 feet (Miles and Goudey, 1997). The following sections provide additional information on regional climate, hydrology, soils, and vegetation.

1.3.1 Climate and Hydrology

The western part of the Sacramento Valley is characterized by a Mediterranean-type climate with cool, wet winters and hot, dry summers. The average annual temperature ranges from an average low of 37°F in December to an average high of 95°F in July. This moderate climate allows for a year-round growing season. Average annual precipitation is 20.9 inches, with approximately 83 percent of the rainfall occurring between November and March (Natural Resources Conservation Service [NCRS], 2008a). See Appendix A for detailed information.

The easternmost end of the project, near Line 172 A, is approximately 11 aerial miles west of the Sacramento River. Cache Creek, a tributary of the Sacramento River, generally parallels the proposed alignment and is located approximately 1.9 miles south of the western end of the study area near Hungry Hollow and 0.7 miles south of the study area near Yolo at the east end. Throughout most of the alignment, Cache Creek is generally between 3 to 4.5 miles to the south (Figure 1). The Dunnigan Hills divide the project into two separate watershed units. The western side of the study area is located in the Lower Cache Creek hydrologic sub area of the Valley-Putah Creek Hydrologic Unit (Hydrologic Unit Code [HUC] 18020110). This watershed encompasses approximately 77,904 acres. The eastern side of the study area is located in the Colusa Basin Hydrologic Unit (HUC 18020104), which encompasses approximately 683,757 acres (California Department of Fish and Game [CDFG], 2008).

The Dunnigan Hills are highly dissected and characterized by numerous dendritic swales and drainages. Runoff is typically rapid, resulting in high intensity, but short duration flows in response to heavy rainfall events. The natural hydrology throughout the western Sacramento Valley has been significantly altered as a result of agricultural conversion and construction of irrigation canals, drainage ditches, levees, and dams.

1.4 Soils

The proposed pipeline bisects 15 different mapped soil units (Figures 2A-2L). Marvin silty clay loam [Mf] is the most common soil type along the western part of the alignment and consists of somewhat poorly drained silty clay loams that formed in alluvium from

sedimentary rocks (NRCS, 1972). The most common soil types in the Dunnigan Hills are the Corning Series [CtD2], Sehorn Series [SkD], and Sehorn-Balcom Complex [SmD]. The Corning Series is characterized by well-drained gravelly loam that was formed in softly consolidated, mixed alluvium. The Sehorn Series and Sehorn-Balcom Complex are comprised of well-drained clay. Finally, the length of pipeline from approximately Road 95A to the junction of line 172A largely crosses Yolo soils [Ya and Yb] that are well-drained silt loams and silty clay loams formed in alluvium derived from sedimentary material.

1.5 Plant Community Types Observed in the Study Area

Several plant community types are present along the proposed pipeline route. Orchards and irrigated field crops characterize the western end of the proposed alignment, from Line 400/401 east to Interstate 505. The central part of the proposed alignment through the Dunnigan Hills is characterized by annual grassland. The eastern section, roughly from the junction of County Road 95A and Road 17, is primarily irrigated crops. Descriptions of these community types are provided below.

1.5.1 Orchard

Orchards are found in two areas along the pipeline alignment. The first orchard is at the tie-in location to the existing Line 400/401. In this area, the proposed pipeline will roughly follow an existing agriculture road between two plum orchards that extend approximately 0.6 mile east to County Road 85 (Figure 3A). The second area is a relatively new almond orchard located near County Road 87 (Figures 3B and 3C). The orchard communities are intensively managed with uniformly spaced trees and an open understory to facilitate harvesting and pruning of the trees.

1.5.2 Irrigated and Dry Land Crops

Irrigated row crops are a dominant community within the western part of the Central Valley and are planted on the most fertile soils in the valley (CDFG, 2005). Alfalfa and tomatoes are common irrigated crops, with wheat and hay the predominant dry-land crops grown along the length of the proposed pipeline. Many of these crops are either flooded using water pumped from larger irrigation canals into smaller irrigation ditches along the edges of the fields, or are irrigated using overhead sprinkler systems. As with orchards, irrigated row crops and wheat crops are highly managed communities.

1.5.3 Annual Grassland

Annual grassland is the dominant community type through the Dunnigan Hills, roughly from Interstate 505 east to County Road 95A (Figures 3E through 3J). This community is comprised largely of annual species of grasses and forbs that germinate with fall rains, grow slowly in the winter months, and remain low in stature until spring when increasing temperatures stimulate rapid growth. Characteristic grass species found in the community include soft chess (*Bromus hordeaceus*), ripgut brome (*Bromus diandrus*), medusa-head (*Taeniatherum caput-medusae*), fescue (*Vulpia myuros*), ryegrass (*Lolium multiflorum*) and wild oats (*Avena barbata*, *A. fatua*). Common annual forbs include lupine (*Lupinus bicolor*), filaree (*Erodium spp.*), blow-wives (*Achyrachaena mollis*), fiddleneck (*Amsinckia menziesii* var. *intermedia*), bur clover (*Medicago polymorpha*), and vetch (*Vicia villosa*).

SECTION 2

Areas Subject to Regulation under Section 404 of the Clean Water Act

2.1 Overview of Federal Wetland Regulation under the Clean Water Act

The USACE regulates discharge of dredge and fill material into waters of the U.S. (including wetlands) under Section 404 of the Clean Water Act (CWA). Waters of the U.S. are defined as all navigable waters, including (1) all tidal waters; (2) all interstate waters and wetlands; (3) all other waters such as lakes, rivers, streams (perennial or intermittent), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation, or destruction of which could affect interstate commerce; (4) all impoundments of water mentioned above; (5) all tributaries to waters mentioned above; (6) territorial seas; and (7) all wetlands adjacent to waters mentioned above.

Wetlands are areas that "are inundated by surface or ground water with a frequency sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (Environmental Laboratory, 1987). Any actions that involve the placement of fill material into jurisdictional waters and wetlands must comply with Section 404 of the CWA.

The limit of jurisdictional waters of the U.S. (including wetlands) in non-tidal waters extends to the Ordinary High Water Mark (OHWM), to adjacent wetlands above the OHWM, or, if not adjacent, to the limit of the wetlands. The OHWM is defined as the line on the shore established by the fluctuation of water and indicated by physical characteristics such as a natural line impressed on the bank, shelving, scouring, changes in the character of the soil, destruction of terrestrial vegetation, presence of litter or debris, or other appropriate evidence (33 Code of Federal Regulations [CFR] Section 328.4).

The term "adjacent" means bordering, contiguous, or neighboring. Wetlands separated from other waters of the U.S. by man-made dikes or barriers, natural river berms, beach dunes, and the like are "adjacent wetlands." When waters of the U.S. consist only of wetlands, the jurisdiction extends to the limit of the wetlands (33 CFR Section 328.3(c)).

2.2 Recent Changes in USACE Jurisdiction

In the *Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers*, the Supreme Court determined that the use of wetlands by migratory birds as a link to interstate commerce is not fairly supported by the CWA, and that the USACE cannot solely rely upon this rule as the basis for jurisdiction over isolated wetlands. While jurisdiction over isolated wetlands is determined on a case-by-case basis, in general isolated, intrastate, and non-navigable waters are typically considered to be outside the authority of the CWA. However, isolated wetlands that support interstate commerce or wetlands in which the

degradation or destruction of the wetlands could affect the physical, biological, or chemical integrity of other waters of the U.S. are likely to be considered jurisdictional.

On June 5, 2007, the U.S. Environmental Protection Agency (EPA) issued guidance for the Supreme Court's decision in the *Rapanos v. United States* and *Carabell v. United States court* cases (EPA, 2007). Under this guidance, federal jurisdiction extends to (1) traditional navigable waters, (2) wetlands adjacent to traditional navigable waters, (3) non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months), and (4) wetlands that directly abut such tributaries. Jurisdiction over (1) non-navigable tributaries that are not relatively permanent, (2) wetlands adjacent to non-navigable tributaries that are not relatively permanent, and (3) wetlands adjacent to but that do not directly abut a relatively permanent non-navigable tributary will be based on a fact-specific analysis to determine whether they have a significant nexus with a traditional navigable water. Jurisdiction will not be asserted over the following features: (1) swales or erosional features (e.g., gullies and small washes characterized by low volume, infrequent, or short duration flow), and (2) ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.

2.3 State Wetland Regulations

Section 401 of the CWA specifies that states must certify that any activity subject to a federal permit (such as a USACE permit) meet all state water quality standards. In California, the State Water Resources Control Board and the regional boards are responsible for taking certification actions for activities subject to any permit issued by USACE. Wetlands and waters in the project area are subject to the jurisdiction of the Central Valley Regional Water Quality Control Board (RWQCB) (Region 5S).

Pursuant to California's Porter-Cologne Water Quality Control Act, the RWQCBs also regulate the "discharge of waste" into "waters of the state." All parties proposing to discharge waste that could affect waters of the state must file a waste discharge report with the appropriate RWQCB. The terms "discharge of waste" and "waters of the state" are broadly defined in the Porter-Cologne Water Quality Act, such that discharges of waste include fill, any material resulting from human activity, or any other "discharge" that may directly or indirectly impact "waters of the state." Under state regulatory authority, any wetlands or other waters of the state, including isolated wetlands, are potentially subject to the jurisdiction of the RWQCB.

SECTION 3 Methods

A wetlands delineation (including waters of the U.S) was conducted for the proposed Line 406 pipeline project on April 4 and 5, 2007, by CH2M HILL biologists Tim Armstrong and Russell Huddleston. Additional surveys were conducted by Russell Huddleston on March 28, 2008, following a site visit with Erin Hess from the USACE on March 25, 2008. The project study area included the proposed 14-mile pipeline route and a 500-foot buffer on each side of the centerline for a total study area of approximately 1,697 acres (Figures 3A through 3L).

Previous reconnaissance field surveys were conducted on October 11 and 13, 2006, as part of the *L400/401 to L172A Feasibility and Routing Study* (CH2M HILL, 2006), which encompassed the four possible alternative routes: Route 1, 2A, 2B, and 3. The final route selected was a slight alteration of alternative route 3.

Prior to conducting the wetland delineation, additional field reconnaissance surveys were conducted in December 2006 to determine vegetation status following the September 2006 fire that burned approximately 14,000 acres in the Dunnigan Hills, including a portion of the proposed pipeline alignment. Because of the impacts on the grassland vegetation resulting from the fire, the wetland delineation was postponed until the vegetation component was fully discernable. The wetland delineation was conducted in accordance with the 1987 USACE Wetlands Delineation Manual (Environmental Laboratory, 1987) and the *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE, 2006). Except in limited instances, these guidelines require positive indicators for hydrophytic vegetation, hydric soil, and wetland hydrology for an area to be considered a wetland.

Sample points were established at 22 locations in areas considered to be potential wetlands and where appropriate, in adjacent upland areas (Figures 3A through 3L). At each sample location, the dominant plant species were identified and the absolute cover was visually estimated for each species. Given the relatively small size of the wetland features and the homogeneity of the plant community, vegetation estimates were made on the overall feature rather than a defined sample area. The dominant species within each vegetation strata (tree, shrub, and herb) included the most abundant species whose cumulative cover accounted for at least 50 percent of the total cover, as well as any single species that accounted for at least 20 percent of the total vegetative cover (USACE, 2006). Strata that contained less than 5 percent total cover were not considered in the dominance test. All taxonomic designations follow the *Jepson Manual Higher Plants of California* (Hickman, 1996). The wetland indicator status of each dominant species was determined using the *National List of Plant Species that Occur in Wetlands, Region 0* (Reed, 1988). A list of plant species observed at the sample locations, with the corresponding indicator status for Region 0, is provided in Table 1. Wetland hydrology was determined based on observations of surface indicators such as depth of standing water and groundwater conditions observed in soil pits, if present. Where saturated soils or inundation were not observed because of to normal seasonal conditions, other indicators such as defined drainage channels, debris deposits, algal matting, and scouring were noted. Site topography, landscape position, surface water drainage patterns, and seasonal rainfall patterns also were considered for the hydrologic determination at each sample location.

Surface soils were examined in pits excavated with a sharpshooter shovel to depths ranging from 12 to 18 inches. Soil morphological features such as color, texture, and structure were noted for each sample pit. Soil texture was estimated in the field, and moist soil colors were determined using Munsell® soil color charts. Hydric soil determinations were based on indicators provided in the Arid West Regional Supplement (USACE, 2006) as well as *Field Indicators of Hydric Soils in the United States* (NRCS, 2006).

Wetland boundaries were determined in the field based on evident changes in vegetation, hydrology, soils, microtopography, and the presence of defined drainage patterns (if present). Sample point locations and wetland boundaries were mapped using a Trimble GeoXT® global positioning system (GPS) unit. Field data was then post-processed and differentially corrected and plotted on aerial photographs using geographic information system (GIS) software.

In addition to wetlands, other waters features, including ponds, irrigation canals, agricultural ditches, erosional channels, upland swales, and other drainages were also delineated and mapped using a combination of GPS field data and high-resolution aerial photographs.

Representative photographs are included in Appendix B, and the wetlands delineation data forms are included in Appendix C.

Plant Species Observed at Sample Points and their Wetland Indicator Status

Scientific Name ^a	Common Name	Indicator Status ^b
Amsinckia menziesii	Common fiddleneck	NL
Avena barbata	Wild oat	NL
Bromus diandrus	Rip-gut brome	NL
Bromus hordeaceus	Soft chess	FACU-
Centaurea solstitialis	Yellow star thistle	NL
Convolvulus arvense	bindweed	NL
Crypsis schoenoides	Swamp timothy	OBL
Eleocharis macrostachya	Creeping Spikerush	OBL
Erodium cicutarium	Red-stem filaree	NL
Erodium botrys	Broad leaf filaree	NL
<i>Eryngium</i> sp.	Coyote thistle	FACW
Geranium dissectum	Cutleaf geranium	NL
Glyceria occidentalis (= G. declinata)	Mannagrass	OBL
Hordeum marinum ssp. gussonianum	Mediterranean barley	FAC
Hypochaeris radicata	Smooth cat's ear	NL
Lactuca seriola	Prickly lettuce	FAC
Lolium multiflorum	Ryegrass	FAC*
Lupinus bicolor	Miniature lupine	NL
Matricaria matricarioides	Pineapple weed	FACU
Medicago polymorpha	Bur clover	NL
Myosurus minimus	Tiny mouse tail	OBL
Plagiobothrys stipitatus	Slender popcorn flower	OBL
Plantago lanceolata	English plantain	FAC-
Poa annua	Annual bluegrass	FACW-
Psilocarphus brevissimus	Wooly marbles	OBL
Ranunculus muricatus	Spiny-fruit buttercup	FACW+
Rumex crispus	Curly dock	FACW-
Taeniatherum caput-medusae	Medusa-head	NL
Trifolium variegatum	White-tip clover	FACW-
Vicia vilosa	Vetch	NL
Vulpia myuros	Fescue	FACU*

Notes:

^a Plant taxonomy follows The Jepson Manual: Higher Plants of California (Hickman, 1993).

^b Wetland indicator status follow *Plants of the United States of America, Region 0* (Reed, 1988).

FAC = Facultative – Equally likely to occur in wetlands and non-wetlands (34 to 66 percent probability). FACU = Facultative Upland – Estimated 67 to 99 percent probability of occurrence in non-wetlands. FACW = Facultative Wetland – Estimated 67 to 99 percent probability of occurrence in wetlands. NL = Not Listed – Not listed in National List of Plant Species that Occur in Wetlands; is presumed an upland plant.

OBL = Obligate Wetland – Occurs with an estimated 99 percent probability in wetlands.

+/- = Indicates greater (+) or lesser (-) tendency to occur in wetlands.

* = Indicates a tentative status code assignment.

section 4

A total of 1.41 acres of potentially jurisdictional waters, including Goodnow Slough and associated tributaries, seasonal wetlands, and seasonal wetland swales, were identified in the 1,697-acre study area. Other features identified in the study area included a constructed pond, irrigation canals, agricultural ditches, and upland swales that were considered non-jurisdictional. Ultimately, the USACE is responsible for determining the limits of federal jurisdiction under the Clean Water Act and the information provided in this report is intended to assist the USACE with that determination.

As previously noted, the approximately 14-mile pipeline route was divided into four segments based on the roads bisecting the pipeline alignment and vegetation communities encountered. The following sections present the findings for each of the four segments that are defined as follows:

- Segment 1-L400/401 to County Road 85, approximately 0.6 mile of orchards;
- Segment 2-County Road 85 to Interstate 505, approximately 5.0 miles of irrigated crops;
- Segment 3 Interstate 505 to County Road 95A, approximately 5.5 miles of annual grassland in the Dunnigan Hills; and
- Segment 4 County Road 95A to L172A, approximately 3.0 miles of irrigated crops.

A summary of all wetlands, waters, and other features identified during the delineation are provided in Table 2 at the end of this section. Representative site photographs and wetland data sheets are provided in Appendix B and C, respectively.

4.1 Segment 1

With the exception of a small area of annual grassland near the tie-in with the existing Line 401/404, this segment is characterized by irrigated orchards. No wetlands occur in this segment of the proposed alignment. The Hungry Hollow Canal is located approximately 500 feet east of County Road 85 and generally runs perpendicular to the proposed alignment (Figure 3A). The canal is owned and operated by the Yolo County Flood Control and Water Conservation District and is a north lateral off of the Adam West Canal. This feature supplies irrigation water to the orchards and agricultural fields throughout the Hungry Hollow area. Within the study area, the canal is approximately 20 feet wide and is a routinely maintained open channel.

4.2 Segment 2

Segment 2 of the alignment is located entirely within irrigated agricultural fields. The majority of the fields in this area are flood irrigated and, as a result, numerous small earthen agricultural ditches occur throughout this section of the alignment. In addition, two larger

irrigation canals, also managed by Yolo County Flood Control and Water Conservation District, are present in this area (Figures 3A through 3E). No wetlands or natural drainages occur in this segment of the proposed alignment.

4.3 Segment 3

Segment 3 includes the portion of the alignment through the Dunnigan Hills and contains all of the potential jurisdiction wetlands and other waters of the U.S. that were identified in the study area. Vegetation is predominantly annual grassland that is used primarily for sheep pasture. A small amount of irrigated pasture is present along the western end (near Highway 505) and scattered dry land crop fields and residential areas also occur throughout this section.

There is a large irrigation canal just east of the frontage road (Road 90 A) along Highway 505 that runs perpendicular to the proposed alignment at the juncture with County Road 17 (Figure 3E). The channel is approximately 35 feet wide in this area. During the April 2007 field survey shallow ponding was noted within the channel on the north side of County Road 17 and soils were moist to the south. At the time of the survey the channel bottom was vegetated with curly dock (*Rumex crispus*), ryegrass (*Lolium multiflorum*), cut-leaf geranium (*Geranium dissectum*), and cocklebur (*Xanthium strumarium*) throughout. Arroyo willow (*Salix lasiolepis*) was also present in some areas along the side banks. During the April 2007 survey, routine channel maintenance (vegetation and sediment removal) was observed in portions of this feature to the south of the study area.

An excavated, earthen irrigation ditch is present to the east of this canal. This ditch appears to be used to flood irrigate the pasture on the south side of County Road 19. Just east of this ditch is Goodnow Slough (Figure 3F). Goodnow Slough appears to be a natural drainage that has been partially channelized and is currently used as an irrigation canal. The channel is approximately 12 feet wide, devoid of vegetation, and appears to be routinely maintained. A large constructed pond is also present in this area, on the north side of County Road 19 (Figure 3F). The pond is characterized by open water with scattered arroyo willows along the edges.

4.3.1 Tributary Drainages

Three tributary drainage channels to Goodnow Slough are located on the north side of County Road 17 east of Interstate 505 (Figure 3F). These features have generally weakly expressed channels, although some sections of the drainages exhibit well-defined bed and bank characteristics. The average channel widths range from approximately 2 to 5 feet. Scattered vegetation within the channels includes Mediterranean barley and ryegrass. There is also a large patch of giant reed (*Arundo donax*) present along the lower part of Drainage No. 2. While these drainages were dry at the time of the surveys, erosional scouring and a large amount of debris along the barbed wire fence suggest these drainages are subject to high-intensity, ephemeral flows in response to storm events.

4.3.2 Seasonal Wetland 1 (sp-11 and sp-12)

Seasonal Wetland 1 is located at the terminus of a dendritic drainage/swale system immediately adjacent to Goodnow Slough (Figure 3F). Vegetation in this area consists of

scattered spikerush (*Eleocharis macrostachya*), mannagrass (*Glyceria declinata*), and Mediterranean barley (*Hordeum marinum* spp. *gussonianum*). Surface soil (0 to 8 inches) at this location is a dark grayish brown (2.5 Y 4/2) clay with approximately 15 percent light yellowish brown (2.5 Y 6/3) concentrations throughout the matrix. Below 8 inches, the soil is gleyed (Gley 6/5 GY) sandy clay loam with approximately 25 percent yellowish brown (10 YR 5/6) concretions in the matrix. Calcium carbonate concentrations are also present throughout the lower soil profile. At the time of the survey, the soils were saturated in the upper 2 inches and moist to a depth of 16 inches. In addition to receiving surface water from the upslope drainage, this area may also receive seepage water from the adjacent slough.

A second sample point was located in the upland swale located to the northeast of seasonal wetland 1 (Figure 3F). Mediterranean barley and bur clover are the dominant vegetation in this area, with approximately 20 percent bare ground. Surface soil in this area (0 to 3 inches) is a dark grayish brown (10 YR 4/2) sandy clay loam with approximately 5 percent brown (7.5 YR 4/4) concentrations along the root channels. From 3 to 15 inches, the soil is a mixture of dark grayish brown (10 YR 4/2) and dark gray (10 YR 4/1) sandy clay loam with approximately 15 percent brown (7.5 YR 4/4) and 5 percent black (10 YR 2/1) concentrations. This area appears to convey overland flows in response to storm events, but does not exhibit an OHWM and there was no evidence to suggest prolonged saturation or inundation occurs in this area.

4.3.3 Seasonal Wetland 2 (sp-13 and sp-14)

Seasonal Wetland 2 is located on the north side of County Road 17, immediately east of the dendritic drainage/swale feature that flows into Seasonal Wetland 1 (Figure 3F). This area is characterized by a broad, shallow topographic depression that exhibits a notable change in vegetation from the adjacent grassland community. Ryegrass is the dominant species throughout the basin with scattered Mediterranean barley, slender popcorn flower (*Plagiobothrys stipitatus*) and coyote thistle (*Eryngium* sp.). Surface soil (0 to 7 inches) in this location is a dark grayish brown (10 YR 3/2) clay loam with approximately 5 percent dark yellowish brown (10 YR 4/6) concentrations in the matrix. Below 7 inches, the soil is a grayish brown (10 YR 3/2) clay. The basin was dry during the March 28, 2008 survey, but algal matting was present throughout, suggesting the presence of ponded water earlier in the season.

The adjacent grassland area (sp-14) is characterized by non-native annual grasses, including fescue, wild oat, medusa-head and filaree. Soil in this area is a gravelly, brown (10 YR 4/3) clay loam in the upper 7 inches, becoming more of a clay texture with depth. No redoximorphic features or other indicators of hydric soil were noted at the time of the survey and there was no indication of seasonal saturation or inundation in this area.

4.3.4 Upland (sp-10)

This sample point is located in a in a relatively low-lying area characterized by Mediterranean barley and bur clover. The upper 1 inch of the soil is a dark grayish brown (10 YR 4/2) clay loam, with very few (less than 1 percent) brown (7.5 YR 4/4) concentrations along the root channels. Below 1 inch, the soil is a gravelly dark grayish brown (10 YR 4/2) clay with no redoximorphic features. No evidence of flowing water, saturation, or inundation was noted in this area.

4.3.5 Upland Swale/Drainage (sp-9 and sp-9a)

Sample point 9 was located on the south side of County Road 17 in a weakly expressed topographic swale feature, just downslope of a culvert under the roadway (Figure 3G). Vegetation throughout this area is characterized by Mediterranean barley and bur clover. The surface soil (from 0 to 2 inches) is a very gravelly, brown (10 YR 4/3) sandy clay loam with approximately 3 percent dark brown (7.5 YR 3/4) concentrations along the root channels. From 2 to 18 inches, the soil is a very gravelly, dark gray (10 YR 4/1) clay. This area appears to convey short duration overland flows in response to storm events, but does not exhibit an OHWM, nor does it show evidence of seasonal saturation or inundation.

A second sample point (sp-9a) was taken in a small drainage leading to the culvert on the north side of County Road 17 (Figure 3G). This drainage is located downslope of a broad, weakly expressed topographic swale. Vegetation in this area is predominantly soft chess and fescue with some Mediterranean barley and scattered curly dock also present. Soil in this area is a brown (10 YR 4/3) clay loam throughout the upper 16 inches, with no redoximorphic features. This area appears to convey short duration overland flows in response to storm events, but does not exhibit an OHWM or show evidence of prolonged seasonal saturation or inundation.

4.3.6 Upland Swale (sp-8)

Sample point 8 was established in a weakly expressed topographic swale feature, just down slope of a 16-inch-diameter culvert under County Road 17. Vegetation throughout this area is characterized by Mediterranean barley and bur clover. Surface soil to a depth of 2 inches is a gravelly, dark grayish brown (10 YR 4/2) sandy clay loam with approximately 2 percent brown (7.5 YR 4/4) concentrations along the roots channels. From 2 to 15 inches, the soil is a very gravelly, dark grayish brown (10 YR 4/2) clay with no redoximorphic features. This area may convey short duration overland flows in response to storm events, but does not exhibit an OHWM or show evidence of prolonged seasonal saturation or inundation.

4.3.7 Upland (sp-8a)

Sample point 8a is located in a low saddle area that was characterized by dense ryegrass. Surface soil in this area was a very dark grayish brown (10 YR 3/2) sandy clay loam from 0 to 8 inches. Very few (less than 1 percent) yellowish red (5 YR 4/6) concentrations are present along the root channels in the upper 2 inches, and very few dark brown (7.5 YR 3/4) concentrations are in the matrix from 2 to 8 inches. Below 8 inches, the soil is a dark grayish brown (10 YR 4/2) clay with very few dark brown (7.5 YR 3/4) concentrations in the matrix. This area may convey overland flow in response to storm events, but does not exhibit an OHWM and does not appear to support prolonged seasonal saturation or inundation.

4.3.8 Upland Swale (sp-8b)

This sample point is located in a weakly expressed topographic swale characterized by ryegrass and Mediterranean barley. Soil in the upper 7 inches is a dark grayish brown (10 YR 4/2) clay loam with no redoximorphic features. Soil color is the same between 7 and 16 inches, but the texture becomes clay. This area appears to convey short duration overland flows in response to storm events, but does not exhibit an OHWM or show evidence of prolonged seasonal saturation or inundation.

4.3.9 Seasonal Wetland Swale 1 (sp-7a, sp-7b, sp-7c)

This area is characterized by a weakly expressed topographic swale and excavated drainage leading to a 16-inch-diameter culvert on the north side of County Road 17 (Figure 3G). This area is shown as an intermittent blue-line drainage on the Madison USGS 7.5-minute quadrangle. Ryegrass and Mediterranean barley are the dominant species throughout the seasonal wetland swale. The surface soil (0 to 2 inches) is a dark grayish brown (10 YR 4/2) clay loam with approximately 2 percent yellowish red (5 YR 4/6) concentrations along the root channels. From 2 to 9 inches the soil is a very dark grayish brown (10 YR 4/1) clay loam with approximately 5 percent dark yellowish brown (10 YR 4/4) concentrations in the matrix. Soil below 9 inches is a very dark grayish brown (10 YR 3/2) clay with approximately 2 percent dark yellowish brown (10 YR 3/4) concentrations in the matrix. A small earthen berm (less than 12 inches high) is present along the south end of this feature, parallel to the road. This small berm appears to impede down slope drainage and resulting in increased seasonal saturation and inundation at this location as evidenced by algal matting in the lower swale area.

A sample point was also established in the drainage feature on the north side of the road that conveys flows into the 16-inch-diameter culvert (sp-7c). Ryegrass was the sole dominant plant species in the drainage with scattered curly dock and sparse wild oat. Soils are highly stratified with the matrix layers ranging dark grayish brown (10 YR 4/2 and 10 YR 4/3) to brown (10 YR 5/3). Few to common redoximorphic concentrations were observed throughout the soil profile ranging from yellowish red (5 YR 4/5) along the root channels to dark yellowish brown (10 YR 3/6) in the matrix. Soil texture is a clay loam in the upper 8 inches, becoming clay between 8 and 16 inches. This drainage feature appears to both convey flows and support some seasonal saturation and inundation.

One upland sample point (sp-7b) was established adjacent to the seasonal wetland swale and drainage area. Vegetation at this location is typical for the annual grassland habitat throughout the Dunnigan Hills and included species such as filaree, ryegrass, fescue and wild oat. Surface soil (0 to 6.5 inches) in this area is a brown (10 YR 4/3) sandy loam. Between 6.5 and 8 inches the soil is a stratified brown (10 YR 4/3) (7.5 YR 4/4) and grayish brown (10 YR 5/2) silt loam. Below 8 inches the soil is a dark grayish brown (10 YR 4/2) clay with very few (less than 1 percent) dark yellowish brown (10 YR 4/4) concentrations in the matrix. This area may support brief overland flows in response to storm events, but does not show any indication of prolonged saturation or inundation or an OHWM.

4.3.10 Upland Swale (sp-7)

Sample point sp-7 is located in a weakly expressed swale on the south side of County Road 17 downslope of a 16-inch-diameter culvert. Vegetation in the swale is similar to the grassland vegetation throughout this area and is characterized by ryegrass with scattered bur clover and soft chess. Soil in the upper 2 inches is a dark grayish brown (10 YR 4/2) clay loam with few (less than 2 percent) dark yellowish brown (10 YR 4/6) concentrations along the root channels. Below 2 inches the soil is a dark grayish brown (10 YR 4/2) clay with very few (less than 1 percent) dark yellowish brown (10 YR 4/6) concentrations in the matrix. This area appears to support highly ephemeral, short duration overland flows in response to storm events, but does not exhibit an OHWM or appear to be subject to prolonged saturation or inundation.

4.3.11 Upland Swale (sp-5)

This sample point was established in a weakly expressed topographic swale that flows to the south into a slightly eroded scour channel. Vegetation in the swale is similar to the adjacent grassland community with filaree and ryegrass the dominant species and scattered soft chess and wild oat also present. The top one inch of the soil is a very gravelly, dark brown (7.5 YR 3/2) sandy clay loam with few (less than 2 percent) strong brown (7.5 YR 4/6) concentrations along the root channels. From 1 to 12 inches the soil is a very gravelly, dark brown (7.5 YR 3/2) sandy clay loam with no redoximorphic features. This area likely conveys short duration overland flow in response to storm events, but does not exhibit an OHWM or appear to support prolonged saturation or inundation.

4.3.12 Upland (sp-6)

This sample point is located in a very weakly expressed topographic low area. Vegetation in this location is typical of the annual grassland observed throughout the Dunnigan Hills and included species such as wild oat, ryegrass, soft chess, bur clover and filaree. Surface soil (0 to 3 inches) in this area is a very gravelly, dark grayish brown (10 YR 4/2) clay loam underlain by a very gravelly, very dark grayish brown (10 YR 3/2) clay. Ephemeral overland flows may occur in this area in response to storm events, but no OHWM or evidence of prolonged seasonal saturation or inundation was evident at this location.

4.3.13 Seasonal Wetland 2 (sp-4, sp-4a, sp-4b)

This feature is shown as blue-line stream on the Madison 7.5-minute USGS quadrangle map. There is a very weakly expressed topographic low area on the north side of County Road 17 and an 18-inch-diameter culver under the road in this area. There is no apparent change in vegetation or evidence of flow on the north side of the road; therefore, sample points were located only on the south side of the road in this area. During the March 2008 survey, drift lines were present on the barb wire fence along the south side of the road, indicating significant flows overtopping the road and flowing down the swale in this area. Approximately 100 feet downslope from the road there is a well-defined erosional channel that exhibited recent evidence of scour during the March 2008 surveys. This erosional channel ends abruptly and overland flow continues through an upland swale (Figure 3H). Two sample points were established in the swale feature down slope of the culvert on the south side of County Road 17. Both points had similar vegetation and soil characteristic (sp-4 and sp-4a). Ryegrass and Mediterranean barley are the dominant plant species throughout the swale. Soil in the upper part (2 to 4 inches) is a dark grayish brown (10 YR 4/2) sandy clay loam with a few (1 to 2 percent) yellowish red (5 YR 4/6) concentrations along the root channels. Soils in the lower horizon were also dark grayish brown (10 YR 4/2) and ranged from gravelly sandy clay loam to clay texture. Soil cracks were noted in this area and the adjacent upland area during the March 2008 field visits. Soil in this area is mapped as the Sehorn-Balcom complex. Both of these soil series are Vertisols that are characterized by cracks that regularly close and open each year due to the shrinkswell of the clay as a result of changes in soil moisture (NRCS, 2008b and 1999). Soil cracks associated with Vertic soils are not considered to be an indicator of wetland hydrology (USACE, 2006). However, the debris (drift lines) along the barbed wire fence and the scouring observed in the erosional channel suggest that significant flows had recently occurred in this location. While flows in this area appear to be relatively high intensity,

they are likely highly ephemeral based on the slope, drainage patterns, and rapid runoff. This area did not appear to support prolonged saturation or inundation.

Sample point sp-4b was established in the grassland community adjacent to the swale. Dominant vegetation in this area includes ryegrass, soft chess, wild oat, and bur clover. Soil in the upper 10 inches is a dark grayish brown (10 YR 4/2) clay loam underlain by a brown (10 YR 4/3) clay. Surface cracks in the soil were also evident in this area. This area may be subject to short duration overland flow in response to stormwater runoff, but no evidence of prolonged saturation, inundation, or an OHWM was observed.

4.3.14 Upland (sp-3)

Sample point 3 is located in a topographic low area south of County Road 17. The vegetation is similar throughout this area and is characterized by soft chess and Mediterranean barley with sparse curly dock, bur clover and miniature lupine. Soil in this area is a gravelly, dark grayish brown (10 YR 4/2) clay loam throughout the upper 16 inches. No redoximorphic features or other indicators of hydric soil were observed. No evidence of recent flow or prolonged seasonal saturation/inundation was noted at this location.

4.3.15 Upland (sp-2)

Sample point sp-2 was located in a low saddle area between two rolling hills. The grassland habitat in this area is characterized by Mediterranean barley with sparse soft chess and ryegrass. Soil throughout the upper 4 inches is a gravelly, dark grayish brown (10 YR 4/2) clay loam, becoming clay below 4 inches. No redoximorphic features or other indicators of hydric soil were observed. No OHWM, evidence of ephemeral flow, or wetland hydrology was noted in this location.

4.3.16 Upland Swale (sp-1)

The feature is a weakly expressed drainage swale at the base of a rolling hill that is shown on the USGS Woodland quadrangle map as and intermittent blue-line drainage. Ryegrass is dominant plant species throughout the swale, but is also abundant throughout the adjacent grassland area. Associated species with relatively low cover in this area included soft chess, Mediterranean barley, wild oat, yellow star-thistle (*Centaurea solstitialis*), bur clover, and prickly lettuce (*Lactuca serriola*). Surface soil (0 to 4 inches) is a dark grayish brown (10 YR 4/1) clay loam. From 4 to 12 inches the soil is a gravelly, very dark grayish brown (10 YR 4/1) clay. No redoximorphic features or other indicators of hydric soil were noted in the upper 12 inches of the soil profile. This feature likely conveys short duration, overland flows in response to heavy rainfall, but no OHWM or evidence of prolonged inundation or saturation were noted in this area.

4.4 Segment 4

Segment 4 of the proposed alignment is located almost entirely within irrigated agricultural fields. No wetlands were observed in this section. The Acacia Canal, a constructed agricultural irrigation canal, is located in this section between County Road 96 and Interstate 5 (Figure 3K). This feature is approximately 8 to 10 feet wide and supports a narrow riparian corridor that is characterized by valley oak (*Quercus lobata*) and California

walnut (*Juglans hindsii*). Scattered willow (*Salix sp.*), cottonwood (*Populus fremontii*), and Himalayan blackberry (*Rubus discolor*) are also present in some areas along the canal. Common herbaceous species along the banks include dallisgrass (*Paspalum dilatatum*), barnyard grass (*Echinochloa crus-galli*), curly dock, milk thistle (*Silybum marinum*), mustard (*Hirschfeldia incana*), and Queen Anne's lace (*Daucus carota*).

Total Waters of Area Hydrophytic Wetland Hydric the U.S./ Wetlands^a Feature (acres) Vegetation Hydrology Soils Notes Segment 1 0.58 Yes N/A Hungry Hollow None No Constructed irrigation canal west of County Road 85; routinely maintained; approximately 20 feet wide. Pipeline will be installed Canal using directional drill or jack and bore under the canal. Segment 2 Irrigation Canal 1 0.37 N/A None Yes No Constructed irrigation canal east of County Road 88A; routinely maintained; approximately 15 feet wide. Pipeline will be installed using directional drill or jack and bore under the canal. Irrigation Canal 2 0.35 None Yes N/A No Constructed irrigation canal west of Interstate 505; routinely maintained; approximately 15 feet wide. Pipeline will be installed using directional drill or jack and bore under the canal. 1.81 N/A Agricultural None Yes No Numerous constructed agricultural drainages for localized conveyance of irrigation water occur throughout this segment. **Drainage Ditches** Pipeline would likely be installed using either open cut trench or directional drill in these areas; all drainages would be restored to the original condition following construction. Seament 3 Irrigation Canal 3 0.87 Yes Yes N/A No Constructed canal adjacent to Interstate 505, approximately 35 feet wide. Pipeline will be installed using directional drill or jack and bore under the canal and highway at this location. Agricultural 0.10 None Yes N/A No Agricultural drainages for localized conveyance of irrigation water to pasture land to the south. Proposed project would not affect this Drainage Ditch feature. Goodnow Slough 0.79 N/A Yes None Yes Historical natural feature that has been partially channelized and is routinely maintained for conveyance of irrigation water. Proposed project would not affect this feature. Pond 1.48 No Yes N/A No Constructed pond with sparse riparian vegetation along edges. Appears to be a constructed reservoir for irrigation water storage.

Proposed project would not affect this feature.

TABLE 2 Wetlands and Waters Survey Results by Sample Location for the PG&E Yolo Pipeline Route 406

TABLE 2

Wetlands and Waters Survey Results by Sample Location for the PG&E Yolo Pipeline Route 406

Feature	Total Area (acres)	Hydrophytic Vegetation	Wetland Hydrology	Hydric Soils	Waters of the U.S./ Wetlands ^a	Notes
Drainage 1	0.04	No	Yes	N/A	Yes	Tributary to Goodnow Slough; weakly expressed bed and bank bed characteristics with some evidence of scouring along the channel; this drainage appears to support ephemeral flows in response to storm events. Proposed project would not affect this feature.
Drainage 2 & 3	0.07	No	Yes	N/A	Yes	Tributaries to Goodnow Slough – weakly expressed drainages to the north, but well defined bed and bank characteristics near County Road 17; drainages appear to support high intensity, but ephemeral flows in response to storm events. Proposed project would not affect these features.
Seasonal Wetland 1	0.01	Yes	Yes	Yes	Yes	Seasonal wetland area immediately adjacent to Goodnow slough. Proposed project would not affect this feature.
Upland Swale (sp-11)	0.18	No	No	No	No	Weakly expressed topographic swale, likely conveys ephemeral overland flows in response to storm events, but does not exhibit an OHWM or evidence of wetland hydrology. Potential temporary impacts on this feature during construction.
Seasonal Wetland 2 (sp-13)	0.18	Yes	Yes	Yes	Yes	Shallow topographic depression located adjacent to ephemeral drainage channel that is tributary to Goodnow Slough.
Upland Swale (sp-9)	0.15	Yes	No	No	No	Weakly expressed swale feature shown as an intermittent blue line on USGS topographic map; likely conveys some highly ephemeral overland flow in response to storm events but has no OHWM or evidence of prolonged saturation or inundation.
Upland Swale/ Drainage (sp-9a)	0.75	No	No	No	No	Weakly expressed swale feature shown as an intermittent blue line on USGS topographic map; likely conveys some highly ephemeral overland flow in response to storm events but has no OHWM or evidence of prolonged saturation or inundation.
Upland Swale (sp-8)	0.51	No	No	No	No	Weakly expressed swale feature; likely conveys some highly ephemeral overland flow in response to storm events but has no OHWM or evidence of prolonged saturation or inundation.
Upland Swale (sp-8b)	0.43	No	No	No	No	Weakly expressed swale feature; likely conveys some highly ephemeral overland flow in response to storm events but has no OHWM or evidence of prolonged saturation or inundation.

	, 				144-4	
Feature	Area (acres)	Hydrophytic Vegetation	Wetland Hydrology	Hydric Soils	waters of the U.S./ Wetlands ^a	Notes
Seasonal Wetland Swale 1 (sp-7a)	0.15	Yes	Yes	Yes	Yes	Weakly expressed swale feature shown as an intermittent blue line on USGS topographic map; berm along roadside impedes flows in this area and appears to result in seasonal ponding.
Drainage (sp-7c)	0.02	Yes	Yes	Yes	Yes	Roadside drainage to culvert; shown as an intermittent blue line on USGS topographic map; area appears to support ephemeral flows as well as seasonal ponding due to restricted drainage at the culvert.
Upland Swale (sp-7)	0.06	Yes	No	No	No	Weakly expressed swale area shown as a blue line on the USGS topographic map. This area appears to convey some ephemeral overland flows in response to storm events, but does not exhibit an OHWM or evidence of prolonged saturation or inundation.
Upland Swale (sp-5)	0.16	No	No	No	No	Weakly expressed swale feature; likely conveys some highly ephemeral overland flow in response to storm events but has no OHWM or evidence of wetland hydrology
Seasonal Wetland Swale 2 (sp-4/sp-4a)	0.04	Yes	No	No	Yes⁵	Weakly expressed swale area shown as a blue line on the USGS topographic map. This area appears to convey overland flows in response to storm events to the south into a well defined, but discontinuous erosional scour channel; drift lines observed on fence and erosional scouring noted in this area, but there was no evidence of prolonged seasonal saturation or inundation.
Erosional Channel (sp-4)	0.11	No	Yes	N/A	Yes ^b	Erosional scour channel, devoid of vegetation; shown as an intermittent blue line on the USGS topographic map; evidence of significant flow in this area based on significant scouring at head cut area. Channel dissipates into upland swale to the southeast.
Upland Swale (sp-4)	0.05	No	No	N/A	No	Weakly expressed swale area shown as a blue line on the USGS topographic map. This area appears to convey some ephemeral overland flows in response to storm events, but does not exhibit an OHWM or show evidence of prolonged saturation or inundation.
Upland Swale (sp-3)	0.04	No	No	No	No	Weakly expressed swale located in the vicinity of an intermittent blue line shown on the USGS topographic map. This area appears to convey some ephemeral overland flows in response to storm events, but does not exhibit an OHWM or show evidence of prolonged

saturation or inundation.

TABLE 2 Wetlands and Waters Survey Results by Sample Location for the PG&E Yolo Pipeline Route 406

TABLE 2

Wetlands and Waters Survey Results by Sample Location for the PG&E Yolo Pipeline Route 406

Feature	Total Area (acres)	Hydrophytic Vegetation	Wetland Hydrology	Hydric Soils	Waters of the U.S./ Wetlands ^a	Notes
Upland Swale (sp-1)	0.33	Yes	No	No	No	Weakly expressed swale located in the vicinity of an intermittent blue line shown on the USGS topographic map. This area appears to convey some ephemeral overland flows in response to storm events, but does not exhibit an OHWM or show evidence of prolonged saturation or inundation.
Segment 4						
Acacia Canal	0.80	Yes	Yes		No	Constructed irrigation canal, approximately 8 to 10 feet wide. This feature supports narrow band of riparian vegetation. The pipeline placement will be located on the south side of the canal and cross the pipeline by directional drill or jack and bore under County Road 96.

Notes:

^a Preliminary jurisdictional determination subject to verification by the USACE. ^b This area was considered a potential seasonal wetland swale by the USACE during the March 25, 2998 field verification.

4.5 Summary of Potential Jurisdictional and Non-jurisdictional Features

A wetland delineation was conducted for PG&E's proposed 14-mile natural gas pipeline (Line 406) in Yolo County, California. The project study area included the centerline of the proposed pipeline and a 500-foot buffer to either side for a total of approximately 1,697 acres. A total of 1.41 acres of potential jurisdictional wetlands and other waters of the U.S. were identified in the project study area (Table 3). An additional 9.02 acres of non-jurisdictional features, including a constructed pond, irrigation canals, agricultural ditches, and upland swales also occur in the study area.

Summary of Potential Jurisdictional and Non-jurisdictional Features Identified in the Project Study Area

	Acreage	
Potential Jurisdictional Wetland and Other Waters		
Goodnow Slough	0.79	
Drainages (tributary to Goodnow Slough)	0.11	
Seasonal Wetlands	0.19	
Seasonal Wetland Swales /Drainage	0.21	
Erosional Channel	0.11	
Total	1.41	
Non-Jurisdictional Wetland and Other Waters		
Constructed Pond	1.48	
Canals	2.97	
Agricultural Drainage Ditches	1.91	
Upland Swales / Drainage	2.66	
Total	9.02	

TABLE 3

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Figures































































Appendix A NRCS WETS Tables

WETS Station : DAVIS 1 WSW, CA2294 Creation Date: 08/29/2002 Latitude: 3832 Longitude: 12146 Elevation: 00060 State FIPS/County(FIPS): 06113 County Name: Yolo Start yr. - 1971 End yr. - 2000

] 	Cemperatu (Degrees	ıre F.)	Precipitation (Inches)						
					30% cł will	nance have	avg # of davs	avg		
Month	avg daily max	avg daily min	avg	avg	less than 	more than	w/.1 or more	snow fall		
January	53.3	37.2	45.2	4.04	1,66	4.92	7	0.1		
February	59.8	40.0	49.9	3.76	1.42	4.54	6	0.0		
March	64.7	42.5	53.6	3.03	1.27	3.68	6	0.0		
April	72.0	45.1	58.6	0.97	0.38	1.17	2	0.0		
May	80.4	50.1	65.2	0.55	0.05	0.62	1	0.0		
June	88.3	54.6	71.4	0.18	0.00	0.20	0	0.0		
July	92.7	55.9	74.3	0.03	0.00	0.00	0	0.0		
August	91.8	55.1	73.4	0.04	0.00	0.00	0	0.0		
September	88.0	53.5	70.7	0.30	0.00	0.27	0	0.0		
October	78.9	48.2	63.6	0.90	0.26	1.09	1	0.0		
November	63.7	40.9	52.3	2.41	0.74	2.86	4	0.0		
December	53.9	36.3	45.1	2.82	1.23	3.44	5	0.0		
Annual		 			14.42	22.02	 			
Average	74.0	46.6	60.3		 	 	 			
Total		 	 	19.00			32 	0.1		

GROWING SEASON DATES

	Tempe	erature
Probability	24 F or higher 28 F or	r higher 32 F or higher
	Beginning an Growing Se	nd Ending Dates eason Length
50 percent *	> 365 days 1/16 > 365 days 333	to 12/14 2/26 to 11/28 3 days 276 days
70 percent *	> 365 days 12/31 > 365 days 364	to 12/29 2/15 to 12/ 8 4 days 297 days
* Percent chance of 1 and Ending dates,	the growing season occurrin	ng between the Beginning

total 1917-2002 prcp

Station : CA2294, DAVIS 1 WSW

----- Unit = inches

yr	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	annl
171	40.17	5,90	0.61	M0.51	0.00	0.00	0.00	0.00	0.49	0.00	0.12	0.59	8.39
18	0.95	3.59	3.10	0.82	0.00	0.00	M0.00	0.00	4.07	0.28	M2.19	1.69	16.69
19	2.49	M7.12	1.54	0.02	0.00	0.00	0.00	0.00	0.55	0.00	0.31	2.61	14.64
20	0.37	0.76	M3.47	0.83	0.00	0.04	0.00	M0.04	0.03	1.46	4.02	4.39	15.41
21	5.11	0.32	1.24	M0.30	0.26	0.00	M0.00	M0.00	0.00	0.21	M1.62	4.39	13.45
22	2.29	5.85	1.47	0.40	M0.40	0.00	0.00	M0.00	0.00	1.56	3.29	7.37	22.63
23	2.62	0.70	0.00	2.22	0.10	0.00	0.00	0.00	0.35	M0.40	0.53	0.88	7.80
24	2.46	2.76	1.18	0.38	0.05	0.00	0.00	0.00	0.00	2.05	1.42	3,55	13.85
25	1,05	4,28	3.10	2.15	1.63	0.02	0.00	0.03	0.10	0.01	1,71	1.29	15.37
26	3,70	5,50	0.01	5.74	0.26	0.00	0.00	0.01	0.00	2.01	5.18	0.58	22,99
27	2.18	4.66	1.07	2,48	0.31	0.47	0.00	0.00	0.00	1.71	2,91	2,32	18.11
28	1,73	1.62	3,45	0,75	0,27	0,00	0,00	0.00	0.00	0.13	3,19	2,74	13.88
29	0,54	1,56	1.34	0,34	0.01	0,94	0,00	0.00	0.00	0.09	0,00	3.77	8,59
301	43.80	1.66	3.48	0,92	0.18	0.00	0.00	0.00	0.23	0.69	0,92	0.20	12.08
31	3.71	1.02	0.85	0.00	0.80	0.31	0.00	M0.00	0.00	0.17	1,36	7.84	16.06
32	1,35	1,67	2.01	0,66	0,15	0.00	0,00	0.00	0.00	0.00	0,39	2.17	8,40
33	3.11	0,66	I,95	0,05	0,56	U.UI	0,00	0.00	0.01	0.70	0,00	MZ.62	10.33
34 25	1,16	3,21	0,10	0.35	0,25	0.44	0,00	0.00	0.00	0.65	2,51	2,57	16 57
30	4.87	U,05 7 (3		4,40	0.00 MO EO	0,00	MO 00	0.00	0.00	L.U.S	L.US	1,51 2,40	17 00
30	3,21	7,63 5 74	U, 90 5 52	L,3Z	MU,50	0,53	MU,UU	0,00	0 00	0.27	0.02	3,40	17.89 21 61
20	2,00	0 07	1 26	U • 1 9 1 1 1 1	0,00	0.09	0,02	0,00	0.00	0.01	2,92	1 00	21,01
201	2,42 VI 20	0,07	4,20	U 31	0,30	0,00	0,00	0,00	0.09	0,70	0,00	1,00 0 99	5 99
10	6 59	7 12	3 50	0,54	0,24	0,00	0,01	0,00	0.10	0,20	1 1 2	0,50 8 60	2,02
40	5 88	5 87	3 62	3 87	1 83	0,00	0,00	0,00	0.04	1 16	1 36	5 25	22,42
42	4 12	2 71	2 05	3 92	0.67		0,00	0,00	0.02	1,10 0 59	1 65	2 62	18 35
43	7.67	1.23	2.30	1.44	0.25	0.06	0.00	0.00	0.00	0.21	M1.00	1.45	15.61
44	2.84	6.03	M0.85	1.48	0.96	0.67	0.00	0.00	0.00	1.19	3.25	2.24	19.51
45	1,26	4.30	2,50	0.04	0,60	0.05	0,00	0.00	0.00	2,96	1,36	5,80	18.87
461	40,90	0.91	1.43	1.65	0.40	0.00	0.01	0.00	0.10	0.51	2.53	2.40	10.84
47	0.41	2.75	2.84	0.16	0.48	0.43	0.00	0.00	0.00	2.43	0.97	0.84	11.31
48	0.51	0.84	2.97	2.48	2,53	0.51	0.00	0.00	0.35	1.27	0.27	4.40	16.13
49	1.48	1.37	4.51	0.00	0.38	0.00	0.00	0.05	0.00	0.04	1.12	1.69	10.64
50	4.20	3.36	1.17	0.79	0.05	0.00	M0.00	M0.00	0.05	1.98	3.88	4.47	19.95
51	1.40	1.06	1.00	0.74	0.68	0.00	0.00	0.00	0.01	1.55	1.99	4.46	12.89
52	7.08	0.99	3.22	1.04	0.09	0.23	0.00	0.00	0.00	0.01	1.56	7.31	21.53
53	2,86	0.03	1.86	M2.25	0.35	0.47	0.00	0.08	0.00	0.16	1.77	0.21	10.04
54	3,23	3,54	2.51	1.69	0.16	0.16	0.00	0.08	0.00	0.00	2.98	3.91	18.26
55	2.68	1.24	0.40	2.17	0.64	0.00	0.00	0.00	0.92	0.44	1.16	11.87	21.52
56	6.19	2.67	0.08	1,50	0.54	0.00	0.00	0.00	M0.50	1.32	0.07	0.17	13.04
57	2.07	3,67	1,26	1.18	1,78	0.00	0.00	0.00	0.60	1,37	0,41	2,97	15,31
58	4.91	9.08	4.49	4.11	0.77	0.03	0.04	0.01	0.06	0.32	0.05	0.86	24.73
59	4.65	4,41	0.25	0.33	0.00	0.00	0.00	0.00	1.83	0.00	0.00	1,46	12,93
6U C1	3,25	3,43	1,14	0,90	0,54	0.00	0,00	0.00	0.00	0.07	3.13	1,U3	14,09
61	3,69	1,44 7 00	2,10 1 77	0,46	0,15	0.03	0,00	0,00	0.12	7 02	2,47	2,49	13,06
62	1 07	2.26	2 25	2 01	0.04	0.00	0,00	0.00	0.03	1.90	2 70	2.37	20,72
6.Л	4.07	0 02	0.94	0.24	0,72	0.02	0,00	0,00	0.13	1 72	2 9 1	5 1 3	
65	1,01 4 50	0,02	0,04 A 29	2 9 9 A	0.06	0,40	0.00	0,00	0.00		2,04	2 7/	15 59
66	1.94	1 78	0 11	0 54	0.18	0 09	0 15	0 03	0 07	0 00	6 1 2	3 98	14 99
67	7.94	0.70	3.75	3.93	0.02	0.95	0.00	0.00	0.04	0.26	1.10	0.96	19.65
68	4.51	2.03	2.06	0.21	0.29	0.03	0.00	0.18	0.00	0.54	2.43	3.28	15.56
69	9.60	6.11	1.46	0.93	0.01	0.13	0.00	0.00	0.05	0.89	0.56	5.36	25.10
70	6,79	1.13	1.75	0.04	0,05	0.42	0.00	0.00	0.00	0.92	6.87	4.38	22.35
71	0.86	0.13	1.53	0.37	1.28	0.00	0.00	0.00	0.01	0.06	0.99	3,63	8.86
72	0.97	1.39	0.08	0,90	0.30	0.27	0.00	0.00	0.84	2.61	5,18	2.16	14.70

73	8.66	5.66	2.46	0.08	0.04	0.00	0.00	0.00	0.16	1.51	5.46	4.06	28.09
74	3.30	0.53	4.75	0.82	0.00	0.28	0.63	0.00	0.00	0.81	1.06	3.43	15.61
75	0.23	6.21	4.08	0.43	0.00	0.00	0.08	0.04	0.00	2.33	0.19	0.38	13.97
76	0.38	0.62	1.12	0.87	0.00	0.13	0.00	0.51	0.25	0.11	0,56	1.07	5,62
77	1.34	0.89	1.83	0.01	1.12	0.00	0.00	0.00	0.71	0.23	2.74	3.98	12.85
78	9.69	3.52	4.72	2.06	0.04	0.01	0.00	0.00	0.00	0.00	3.04	0.87	23.95
79	5,99	4.32	1.97	0.85	0.20	0.00	0.00	0.00	0.00	1.92	1.77	4.81	21.83
80	5.07	7,80	2,27	1.13	0,26	0.03	0.11	0.00	0.00	0.04	0.13	3.18	20.02
81	4.27	0.66	3.11	0.40	0.13	0.00	0.00	0.00	0.32	1.87	5.08	3,25	19.09
82	5.81	2.63	6.89	5.44	0.00	0.07	0.00	0.00	1.97	2.81	5.69	2.71	34.02
83	5,98	6.29	M8.63	2.81	0.38	0.07	0.00	0.04	0.48	0.45	6.44	6.58	38.15
84	0.39	1,25	1.02	0.36	0.00	0.12	0.00	0.21	0.04	1.22	6.49	1.32	12.42
85	1.03	1.79	3,15	0.34	0.06	0.09	0.00	0.01	0.35	0,50	4.46	3.11	14.89
86	3.92	9.70	4.61	0.74	0.07	0.00	0.00	0.00	0.71	0.01	0.14	1.33	21.23
87	2.05	3.08	3.29	0.18	0.02	0.00	0.00	0.00	0.00	0.72	2.21	4.44	15.99
88	4.76	0.76	0.20	1,33	0,99	0.89	0.00	0.00	0.00	0.12	1,56	2,99	13,60
89	0.65	0.62	4,85	0.29	0.02	0,28	0.00	0.12	2.31	1.30	1.35	0.03	11,82
90	4.12	3.70	0.76	0.31	1.85	0.00	0.00	0.00	0.02	0.14	0.27	1.34	12.51
91	0.32	2.84	8.00	0.79	0.12	0.28	0.00	0.00	0.01	0,52	0.21	2.13	15,22
92	1,58	8,55	3.63	0,55	0.00	0.20	0.00	0.00	0.00	1.72	0.15	6.16	22.54
931	10,78	6.04	1,90	0.63	0,73	1,53	0.00	0.00	0.00	0.37	2.10	1,71	25,79
94	2.28	3.32	0.08	0.75	1,25	0.00	0.00	0.00	0.04	0.61	4.03	2.79	15.15
951	12,48	0.22	8.13	0.73	1.48	0.71	0.00	0.00	0.00	0.00	0.02	6.64	30.41
96	4.42	7.06	2.16	1,78	2.42	0.00	0.00	0.00	0.00	1.31	1.43	6.73	27.31
97	8.66	0,27	0,52	0.07	0.32	0.21	0.00	0.16	0.05	0.48	4.89	2,23	17.86
98	4.80	11,38	1.69	1.48	2.47	0.06	0.00	0.00	0.50	0.67		1.06	24.11
99	1.76	4.03	1,73	1.21	0.07	0.02	0.00	0.00	0.00	0.20	1.42	0.09	10.53
0	4.76	7.46	1.62	1.31	0.77	0.15	0.00	0.00	0.19	2.21	0.70	0.34	19.51
1	2,82	5,14	2,39	0.89	0.00	0.12	0.00	0.00	0.26	0,45	2.88	6.71	21.66
2													

WETS Station : WINTERS, CA9742 Latitude: 3832 State FIPS/County(FIPS): 06113 County Name: Yolo Start yr. - 1971 End yr. - 2000

_____ _____ TemperaturePrecipitation(Degrees F.)(Inches) _____ -----|--| | | 30% chance |avg | | | | will have |# of| avg | |------|-----|days| total|

 Month
 avg
 avg
 avg
 less
 more
 |w/.1| snow |

 | daily | daily |
 |
 | than
 | than
 | or| fall |

 | max
 min
 |
 |
 | more|
 |

 January
 55.5
 37.8
 46.7
 5.10
 2.02
 6.18
 7
 0.1
 February

 February
 62.0
 41.4
 51.7
 4.67
 1.61
 5.60
 6
 0.0
 And

 March
 67.2
 44.4
 55.8
 3.60
 1.38
 4.36
 6
 0.0

April 74.8 48.0 61.4 1.03 0.35 1.25 2 0.0 83.2 | 53.5 | 68.4 | 0.64 | 0.06 | 0.74 | 1 | 0.0 | May June 91.3 | 58.3 | 74.8 | 0.12 | 0.00 | 0.13 | 0 | 0.0 |

 July
 96.2
 60.2
 78.2
 0.03
 0.00
 0.00
 0
 0.0
 1

 August
 95.0
 59.3
 77.2
 0.05
 0.00
 0.00
 0
 0.0
 1

 September
 90.5
 57.2
 73.8
 0.26
 0.00
 0.27
 0
 0.0
 0.0

October | 81.0 | 51.0 | 66.0 | 1.00 | 0.31 | 1.22 | 1 | 0.0 | November | 65.8 | 42.9 | 54.3 | 2.87 | 0.82 | 3.38 | 4 | 0.0 |

December | 56.2 | 37.3 | 46.8 | 3.45 | 1.56 | 4.27 | 5 | 0.0 | _____/ ____/ _____/ _____/ _____/ _____/ _____/ ____/ ____/ ____/ ____/ ____/ ____/ ____/ ____/ ____/

Annual					16.91	26.75		
Average	76.6	49.3	62.9					
Total				22.81			32	0.2

GROWING SEASON DATES

	 !	Temperature	
Probability	 24 F or higher 	28 F or higher	32 F or higher
	Beg: G:	inning and Ending I rowing Season Lengt)ates Lh
50 percent *	 > 365 days	1/4 to 12/25 355 days	2/ 9 to 12/ 6 301 days
70 percent *	 > 365 days 	12/30 to 12/30 > 365 days 	2/ 1 to 12/14 317 days

* Percent chance of the growing season occurring between the Beginning and Ending dates.

total 1948-2002 prcp

Station : CA9742, WINTERS ----- Unit = inches

yr	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	annl
48							0.00	0.00	0.18	0.85	0.14	3.89	5.06
49	1.33	0.77	M6.13	0.00	0.30	0.00	0.03	0.05	0.00	0.00	1.17	1.41	11.19
50	5.24	3.63	1.00	0.85	0.04	0.00	0.00	0.00	0.09	2.11	5.66	M6.50	25.12
51	2,25	M0.82	1.87	0.52	0.71	0.00	0.00	0.00	0.03	1.07	2.63	5.95	15.85
52	7.80	0.94	M3.46	0.76	0.05	0.18	M0.02	0.00	0.00	0.00	1.63	10.47	25.31
53	3.21	0.00	1.43	1.67	0.54	0.65	0.00	0.00	0.00	0.07	2.07	0.33	9.97
54	4.26	3.40	3.76	2.32	0.19	0.01	0.00	0.16	0.00	0.00	3.47	3.79	21.36
55	2.10	1.65	0.48	1.96	0.00	0.00	0.00	0.00	1.07	0.13	1.60	14.44	23.43
56	6.17	M3.73	0.02	1,55	0.56	0.08	0.00	0.00	0.32	1.03	0.11	0.11	13.68
57	1.89	3.99	0.96	1.60	1.38	0.00	0.00	0.00	0.50	2.92	0.36	3.37	16.97
58	5.32	11.60	5.53	4.11	0.81	0.13	0.06	0.00	0.00	0.10	0.00	0.92	28.58
59	6.77	7.27	0.23	0.08	0.00	0.00	0.00	0.00	2.63	0.00	0.00	2.02	19.00
60	3,90	4.16	1.49	1.35	1.46	0.00	0.00	0.00	0.02	0.09	3.65	2.07	18.19
61	4.77	1.34	1,56	0.68	0.06	0.06	0.00	0.00	0.20	0.04	2.92	2.79	14.42
62	1.02	9.57	2.66	0.00	0.08	0.00	0.00	0.07	0.01	6.90	0.37	2.43	23.11
63	6.54	3.69	3.72	4.06	0.76	0.12	0.00	0.00	0.49	1.59	4.25	0.66	25.88
64	4.16	0.00	1,53	0.32	0.10	0.64	0.01	0.05	0.00	2.74	3.37	6.91	19.83
65	4.99	0.60	0.91	3.73	0.00	0.00	0.00	0.30	0.00	0.00	4.79	2.73	18.05
66	3.37	2.43	0.11	0.59	0.13	0.13	0.11	0.10	0.07	0.00	7.37	4.87	19.28
671	10.84	0.46	5.46	4.52	0.00	1.73	0.00	0.00	0.07	0.17	1.26	1.22	25.73
68	6.31	2.82	2.64	0.39	0.24	0.00	0.00	0.12	0.00	0.60	3.15	5.73	22.00
69	9.31	7,70	1.46	1.33	0.00	0.04	0.00	0.00	0.00	1.74	0.66	6.92	29.16
701	12.41	1.35	2.25	0.00	0.09	0.39	0.00	0.00	0.10	0.61	7.51	6.21	30.92
71	1.26	0.07	2.09	0.46	0.52	0.00	0.00	0.00	0.01	0.09	1.36	5.37	11.23

72 1.42	1.37	0.01	0.79	0.23	0.20	0.00	0.00	0.54	3.44	6.08	1.98	16.06
7310.99	7.50	2.80	0.02	0.12	0.00	0.00	0.00	0.05	0.86	6.72	3.90	32.96
74 3.68	0.46	4.57	1.04	0.00	0.10	0,50	0.02	0.00	1.09	0.59	4.61	16.66
75 0.25	7.86	6.58	0.88	0.00	0.00	0.09	0.13	0.00	2.09	0.05	0.33	18.26
76 0.47	0.74	1,53	0.69	0.00	0.05	0.00	0.67	0.33	0.11	0.64	1.37	6,60
77 1.94	0.87	2.01	0.00	1.44	0.00	0.00	0.00	0.51	0.24	3.99	4.53	15.53
7813.29	5,41	4.62	1.77	0.04	0.02	0.00	0.00	0.36	0.00	2.41	0.68	28.60
79 7.87	4.89	2.00	1.24	0.37	0.04	0.00	0.00	0.00	1.77	2.16	6.27	26.61
80 6.00	13.09	2.14	1.11	0.05	0.04	0.19	0.00	0.00	0.04	0.08	3,53	26.27
81 5.74	0.88	3.67	0.48	0.48	0.00	0.00	0.00	0.35	1.74	7.03	4.34	24.71
82 7.53	2.65	7.50	4.78	0.00	0.06	0.00	0.00	1.39	3.14	7.10	2.82	36.97
83 8.77	7,56	10.21	M3.44	0,25	0.00	0.00	0.04	0.48	0.85	M7.43	8.09	47.12
84 0.43	1.39	1.18	0.53	0.00	0.01	0.00	0.29	0.09	1.17	7,50	1.36	13,95
85 1.53	2.06	3.75	0.06	0.00	0.04	0.00	0.06	0.24	0.38	3.98	3,56	15.66
86 4.64	12.87	5.84	0.70	0.18	0.00	0.00	0.00	0.60	0.04	0.10	1.25	26.22
87 2.38	4.82	3.43	0.09	0.18	0.00	0.00	0.00	0.00	0.71	2.07	6,35	20.03
88 5,98	0,59	0.42	1.14	0,95	0.18	0.00	0.00	0.00	0.11	2.47	3.49	15.33
89 0.81	0.83	4.21	0.50	0.03	0.35	0.00	0.01	2.29	1.93	1.02	0.00	11.98
90 3.40	2.62	0,59	0.13	2.36	0.00	0.00	0.00	0.13	0.20	0.30	0.96	10.69
91 0.35	3,22	11.06	0.29	0.33	0.14	0.00	0.01	0.00	0.48	0.37	2.97	19.22
92 2.16	7,74	3,68	0.64	0.04	0.32	0.00	0.00	0.00	2.12	0.16	7.35	24.21
9312.53	6.59	1.70	0.61	1.02	0.70	0.00	0.00	0.00	0.93	2,52	2.12	28,72
94 2.16	4.55	0.16	1.13	1.46	0.00	0.00	0.00	0.00	0.73	4.77	3.19	18.15
9517.21	0,25	11,75	0.78	1.65	0.68	0.00	0.00	0.00	0.00	0.05	9.67	42.04
96 6.11	9.23	2.31	2.63	2.38	0.00	0.00	0.00	0.00	1.48	2.40	9.46	36.00
9711.35	0.54	0.62	0.04	0.43	0.23	0.00	0.31	0.04	0.41	6.49	2.17	22.63
98 5.92	15.12	2.01	1.73	3.47	0.00	0.00	0.00	0.26	0.55	3.57	1.22	33.85
99 1.43	5,55	2,75	1.44	0.04	0.07	0.00	0.00	0.09	0.26	1.94	0.17	13.74
0 5,35	8.66	2.87	1.71	1,20	0,28	0.00	0.00	0.03	3.07	0.79	0.47	24.43
1 3.88	6.82	2.69	0.89	0.00	0.06	0.00	0.00	0.30	0.43	5.12	9.26	29.45
2												

WETS Station : WOODLAND 1 WNW, CA9781 Latitude: 3841 State FIPS/County(FIPS): 06113 Start yr. - 1971 End yr. - 2000 Creation Date: 08/29/2002 Elevation: 00070 Start yr. - 1971 End yr. - 2000

		Temperatur (Degrees F	e .)	Precipitation (Inches)							
	 		 		30% cl 30% cl will	nance have	avg # of	avg			
Month	avg daily max	avg daily min	avg 	avg	less than 	more than 	w/.1 or more	snow fall			
January	 53.8	38.0	45.9	4.30	1,78	5.23	7	0.1			
February	60.2	41.4	50.8	4.38	1.61	5,28	7	0.0			
March -	65.8	44.4	55.1	3.28	1.53	4.00	6	0.0			
April	73.4	47.4	60.4	1.11	0.49	1.36	2	0.0			
May	82.1	52.4	67.3	0.60	0.10	0.71	1	0.0			
June	90.7	56.9	73.8	0.16	0.00	0.20		0.0			
July	95.3	58.6	77.0	0.03	0.00	0.00	0	0.0			
Auqust	94.1	57.7	75.9	0.06	0.00	0.03		0.0			
September	89.9	56.3	73.1	0.43	0.00	0.41	0	0.0			
October	79.4	50.6	65.0	1.08	0.41	1.35	2	0.0			
November	63.6	42.8	53.2	2.58	0.86	3.09	4	0.0			
December	54.1	37.1	45.6	2.90	1.43	3.61	5	0.0			

Annual					14.51	22.89		
Average	75.2	48.6	61.9					
Total				20.91			34	0.1

GROWING SEASON DATES

	 !	Temperature
Probability	 24 F or higher 	28 F or higher 32 F or higher
	Be Be	ginning and Ending Dates Growing Season Length
50 percent *	 > 365 days	12/31 to 12/31 2/ 7 to 11/27 > 365 days 294 days
70 percent *	 > 365 days 	12/31 to 12/31 1/31 to 12/ 3 > 365 days 307 days

* Percent chance of the growing season occurring between the Beginning and Ending dates.

total 1948-2002 prcp

Station : CA9781, WOODLAND 1 WNW

----- Unit = inches

yr	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	annl
48							0.00	0,00	0.16	1.18	0.34	3,93	5,61
49	1.36	1.27	5.85	0.00	0,29	0.00	0.00	0.05	0.00	0.04	0.89	1.41	11.16
50	4.08	3.11	1.09	0.82	0.13	0.00	0.00	0.00	0.30	2.41	3.54	4.75	20.23
51	1.90	1.37	1.00	0.92	0.97	0.00	0.00	0.00	0.01	1.30	1.79	4.67	13.93
52	7,52	1,29	3.14	1.07	0.03	0.26	0.00	0.00	0.00	0.00	1.45	8.08	22.84
53	2.67	0.02	2.07	1,92	0,52	0.61	0.00	0.15	0.00	0.13	2.17	0.18	10.44
54	3.03	3.76	2.75	1.89	0.19	0.02	0.00	0.07	0.00	0.01	2.92	3.86	18,50
55	2.75	1.74	0.40	2.12	0.43	0.00	0.00	0.00	0.89	0.46	1.30	11,71	21.80
56	6.19	2.54	0.06	M1.70	0.36	0.00	0.00	0.00	0.56	M0.88	0.10	0.12	12.51
57	2.40	3.72	1.26	1.00	1.21	0.00	0.00	0.00	0.93	1.50	0.33	2.55	14.90
58	4.04	8.49	4.14	4.26	0.70	0.00	0.00	0.02	0.07	0.28	0.00	0.98	22.98
59	4.11	4.59	0.36	0.15	0.00	0.00	0.00	0.00	1.70	0.00	0.00	1.61	12.52
60	2.64	2.77	1.93	0.99	0.77	0.00	0.01	0.00	0.01	0.14	3.66	1.30	14.22
61	3.34	1.23	2.14	0.64	0.16	0.09	0.00	0.02	0.17	0.10	2.59	2.69	13.17
62	0.70	5,56	1.56	0.09	0.03	0.00	0.00	0.00	0.00	6.91	0.44	2.16	17.45
63	4.61	2.69	3.47	3,56	0,53	0.02	0.00	0.00	0.25	1.65	3.95	0.45	21.18
64	3.89	0.03	0.78	0.23	0.04	0.29	0.00	0.02	0.00	1.60	3.14	3.33	13.35
65	3.08	0.53	0.71	2.51	0.03	0.00	0.00	0.53	0.00	0.02	3.69	2.04	13.14
66	1.60	1.74	0.15	1.11	0.16	0.15	0.10	0.03	0.08	0.00	6.06	3.23	14.41
67	7.75	0.67	3.51	4.41	0.06	1.16	0.00	0.02	0.11	0.30	1.08	0.92	19.99
68	4.59	1.99	2.35	0.12	0.07	0.00	0.00	0.06	0.00	0.60	3.25	3,56	16.59
69	7.83	M7.58	2.18	1.43	0.05	0.07	0.01	0.00	0.00	1.40	0.75	6.06	27.36
70	7.04	1.41	2.29	0.25	0.05	0.47	0.00		0.00	0.81	7.49	5.55	25.36

71	1.27	0.04	1.98	0.44	1.47	0.02	0.00	0.00	0.02	0.24	1.10	5.35	11.93
72	1.00	1.71	0.09	1.03	0.35	0.34	0.00	0.00	0.73	2.31	5.16	2.37	15.09
73	9.83	7.04	2.59	0.33	0.32	0.00	0.00	0.00	0.17	1.25	M5.76	4.52	31.81
74	3,99	0.71	4.69	1.05	0.08	0.60	0.84	0.04	0.00	1,45	0.66	4.06	18.17
75	0.35	8,22	5.13	1.05	0.00	0.00	0.10	0.19	0.00	1.87	0.31	0.61	17.83
76	0.42	0.84	1.55	1.14	0.00	0.12	0.00	0.43	0.61	0.37	0.69	0.91	7.08
77	1,59	1.07	2.05	0.04	1.43	0.00	0.00	0.00	0.50	0.44	3.09	3.48	13.69
78:	10,98	4.38	4.68	2.44	0.04	0.00	0.00	0.00	0.53	0.00	2.63	0.59	26.27
79	6,90	5.37	2,52	1.03	0.09	0.00	0.00	0.00	0.04	1.85	2.04	5.43	25.27
80	5.10	10.11	2.12	1.00	0.21	0.16	0.05	0.00	0.00	0.11	0.19	2.61	21.66
81	5,79	1.09	4.74	0.57	0.30	0.00	0.00	0.00	0.53	2.61	6.48		22.11
82		2.27	6.61	4.56	0.02	0.33	0.00	0.02	3.72	2.86	5.93	2.46	28.78
83	7,42	6.10	8,92	3.34	0.41	0.15	0.00	0.07	0.76	0.75	6.38	7.39	41.69
84	0.49	1.43	1.14			0.26	0.00	0.30	0.05		6.83	1.21	11,71
85	0.87		2.69	0.43	0.00	0.05		0.05			4.18	2.94	11.21
86	3.78	8.82	4.83		0.08	0.00	0.00			0.13	0.16	1.27	19.07
87	2.26	3.32	3.50	0.14	0.10	0.00	0.00	0.00		0.90	2.27		12.49
88	5.44			1.62			0.00	0.00			1.88	3.95	12.89
89	0.71	M0.93		0,45	0.04		0.00	0.17	2.60	2.50	0.85	0.00	8,25
90	5.02	3.36	1.08	0.32	2,22	0.00	0.00	0.00	0.00	0.04	0.32	1.21	13.57
91	0.38	2,93	9.11	M0,29	0.32	0.42	0.00	0.00	0.00	0.41	0.29	2.84	16.99
92	2.51	M8.38	M2.82	0.64	0.00	0.22	0.00	0.00	0.00	2.34		6.86	23.77
93:	11.70	7.57	2.33	0,98	0.82	0.47	0.00	0.00	0.00	0.78	2.55	1.87	29.07
94	2.66	3.27	0.12	0.49	1.20	0.00	0.00	0.00	0.05	0.85	3.90	2.90	15.44
95:	13,28	0.30	8.44	0.54	1.09	0.70	0.00		0.00	0.00	0.01	6.56	30,92
96	4.29	M8.67	2.17	2.30	2.11	0.00	0.00	0.00	0.00	2.12	1.36	5.80	28,82
97		0.21	0.66	0.15	0.41	0.14	0.00	0.22	0.04	0.38	5.21	2.23	9.65
98	5,50	12.20	1.80	1.67	2,42		0.00		0.57	0.87	M2.25	1.28	28,56
99	1,78	4.78	1.63	1,43	0.07	0.02	0.00	0.00	0.00	0.26	1.56	0.29	11,82
0	5.11	7,50	1.75	1,70	1,12	0.22	0.00	0.00	0.32	1,52	0.86	0.34	20.44
1	3.60	5.70	2.82	1.46	0.00	0.13	0.00	0.00	0.24	0.47	M3.44	6.96	24.82
<u> </u>													

2
Appendix B Site Photographs



Hungry Hollow Canal; routinely maintained agricultural canal



Agricultural Drainage Ditch along County Road 95, typical of this type of feature observed through the Segment 2 of the project study area



Canal 3 - East of Highway 505



Goodnow Slough - North of County Road 17



Goodnow Slough - South of County Road 17



Drainage #1 Tributary to Goodnow Slough - north of County Road 19



Constructed Pond - North of County Road 17



Seasonal Wetland 1- Adjacent to Goodnow Slough



Hydric Soil - Seasonal Wetland 1 (sp-12)



Seasonal Wetland 2 - North of County Road 17



Soil Sample from Seasonal Wetland 2 (sp-13)



Upland Swale south of County Road 17 (sp-11)



Upland Sample Point (sp-10) - south of County Road 17



Upland Swale (sp-9) - south of County Road 17



Upland Swale (sp-9a)



Small drainage at culvert north of County Road 17 (sp-9a)



Upland Swale (sp-8) - south of County Road 17



Seasonal Wetland Swale 1 (sp-7a) - north of County Road 17



Algal deposits in Seasonal Wetland Swale 1 - north of County Road 17



Drainage (sp-7c) north side of County Road 17



Soil sample from drainage (sp-7c)



Upland Swale (sp-7) South of County Road 17



Upland Swale (sp-5) south of County Road 17



Seasonal Wetland Swale 2 (sp4, 4a) south of County Road 17



Erosional scour channel at south end of Seasonal Wetland Swale 2



Upland (sp-3)



Upland Swale (sp-1) south side of County Road 17



Segment 4 - Acacia Canal

Appendix C Wetland Data Sheets

Project/Site: <u>CINE 400/401</u> City/County: <u>YOLO</u> Sampling Date: <u>4/4/07</u>
Applicant/Owner: <u>PG3E</u> State: <u>CA</u> Sampling Point: <u>SP CI</u>
Investigator(s): R. HUDPLESTON, T. ARMSTRONG Section, Township, Range: 10 N. OIE SEC 9
Landform (hillslope, terrace, etc.): <u>TOE SLOPE</u> Local relief (concave, convex, none): <u>NONE</u> Stope (%): <u>Z-5</u>
Subregion (LRR): Lat: 38°44′ 08,677 Long: 121 52'16,637″ Datum: W6584
Soii Map Unit Name: SEHORN-BALCOM COMPLEX 2-15% NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🗡 No
Are Vegetation, Soil, or HydrologyX naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>x</u> No Yes No <u>X</u> Yes No <u>x</u>	Is the Sampled Area within a Wetland?	Yes No <u>X</u>
Remarks: WEAKLY EXPI	RESSED SWALE FEA,	TURE 2-4 FEET	WIDE, ENTERMITTENT
BED AND BANK 6-8	8" -NO ENIDENCE C	F ORDINARY IH	SH WATER OR WETLAND
1+10R06067, 2007	BELOW AVERAGE	RAINFALL TO	PATE

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test workshee	t:	
Tree Stratum (Use scientific names.)	% Cover	<u>Species?</u>	Status	Number of Dominant Species	S	
1. NONE				That Are OBL, FACW, or FA	.C: / (A)	
2						
3.				Species Across All Strata:	1 (D)	
4				opeoles Autoss All Strata.	(D)	
Tatal Course	J/A			Percent of Dominant-Species	s	
Sapling/Shrub Stratum	FIM			That Are OBL, FACW, or FA	.C: 100% (A/E	8)
				Prevalence Index worksho	ot:	
					5L.	
2						
3				OBL species	_ x1=	
4				FACW species	x 2 =	
5				FAC species	_ x 3 =	
Total Cover	MA			FACU species	x 4 =	
Herb Stratum				UPL species	x 5 =	
1. LOLIUM MULTIFLORUM	80	×	FAC*	Column Totals:	(A) (B	6
2. BROMUS HORPFACEUS	5		FACU-			'
3. HORDEUM MARINUM	5		FAC	Prevalence index = B/	A =	
4. AVENA BARBATA	Z		NL	Hydrophytic Vegetation Inc	dicators:	_
5 CENTAUREA SULSTITATIS	2		NL	_x Dominance Test is >50%	6	
6 MEDICA: 60 POWTMERPHA	Z		FALU-	Prevalence Index is ≤3.0) ¹	
2 IA STORIAL	2		FAC	Morphological Adaptatio	ns ¹ (Provide supporting	
1. LACTUCT SEPCIOLA			<u></u>	data in Remarks or o	in a separate sheet)	
8				Problematic Hydrophytic	Vegetation ¹ (Explain)	- 1
Total Cover	100%				vegetation (Explain)	
woody vine Stratum				In an and the second second		
1. <u>NUNE</u>				he present	wetland hydrology must	
2						
Total Cover	: MA			Hydrophytic		
& Para Cround in Harb Stratum 0% Cover	of Rights C		14	Vegetation	(N.	
% Bare Ground III Herb Stratom % Cover	OF BIOUC CI	lust //	<u>л</u>	Fresent? Yes	<u> </u>	
Remarks: UEGETATION IN SWALE	DOMI	NATE	0 34	RYETRASS		
	_			prederes - p	O PISTINCT	
CHANGE FROM ADJACENT	ORA-	SCAN	DCON	MUNITY		
			¥.	e		

12 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	Matrix		Kec	tox Features	5			
inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-4	107R4/2	100%	-				CL	
4-12	107104/1	100%	-			-	د .	SOME FINE GRAVEL
Type: C=C	oncentration, D=Dep Indicators: (Applic	letion, RM=Re able to all LR	duced Matrix. Rs. unless oth	² Location erwise not	: PL=Por	e Lining, R	C=Root Chan	nel, M=Matrix.
Histosol	(A1)		Sandy Re	dox (S5)			1 cm N	Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	Aatrix (S6)			2 cm M	Muck (A10) (LRR B)
Black H	istic (A3)		Loamy Mu	ucky Minera	I (F1)		Reduc	ed Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gl	eyed Matrix	(F2)		Red P	arent Material (TF2)
Stratifier	d Layers (A5) (LRR	C)	Depleted	Matrix (F3)			Other	(Explain in Remarks)
1 cm Mu	uck (A9) (LRR D)		Redox Da	rk Surface (F6)			
Depieter	d Below Dark Surfac	e (A11)	Depleted	Dark Surfac	e (F7)			
Thick Da	ark Surface (A12)		Redox De	pressions (-8)		2	
Sandy N	Aucky Mineral (S1)		Vernal Po	ols (F9)			Indicators	of hydrophylic vegetation and
Sandy (Sleyed Matrix (S4)						wetiand	nydrology must be present.
cestrictive	Layer (if present):							
Type:	MA		-					
	ches):		-				Hydric Soil	Present? Yes No X
Depth (in				1011	SOLL		PERC	HED WHEET
Depth (in Remarks: 7	NO EUIR. ABLE OBS	ERCE	01 <i>2 11</i> 41) 2					
Depth (in Remarks: 7 YDROLO	NO EVIP THBLE CBS	ENCE SERVET						
Depth (in Remarks: 7 YDROLO Netland Hy	NO EVIP ABLE CBS GY drology Indicators:	ENCE SERVET					Secon	ndary Indicators (2 or more required)
Depth (in Remarks: 7 YDROLO Vetland Hy Primary India	NO EUIP ABLE CBS GY drology Indicators: cators (any one indic	ENCE SERVEZ ator is sufficien					%	ndary Indicators (2 or more required) /ater Marks (B1) (Riverine)
Depth (in Remarks: 7 YDROLO Vetland Hy Primary India Surface	NO EUIP ABLE CBS GY drology Indicators: cators (any one indic Water (A1)	ENCE SERVET ator is sufficient	nt)	st (B11)			W	ndary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (in Remarks: 7 YDROLO Vetland Hy Primary India Surface High Wa	NO EUIP ABLE CBS GY drology Indicators: cators (any one indic Water (A1) eter Table (A2)	ENCE SERVET ator is sufficien	nt) Salt Crus Biotic Crus	st (B11) ust (B12)			<u>Secon</u> W Si D	adary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Depth (in Remarks: 7 YDROLO Vetland Hy Primary Indii Surface High Wa Saturati	NO EUIP ABLE OBS GY drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3)	ENCE SERVET ator is sufficien	nt) Salt Crus Biotic Cru Aquatic I	at (B11) ust (B12) nvertebrate	s (B13)		Secon W Si D D	Indary Indicators (2 or more required) Jater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (in Remarks: 7 YDROLO YDROLO Primary India Primary India Saturati Saturati Saturati Water M	NO EUIP ABLE CBS GY drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriver	ENCE SERVET ator is sufficient	nt) Salt Crus Biotic Crus Aquatic I Hydrogen	st (B11) ust (B12) nvertebrate n Sulfide Oc	s (B13) ior (C1)		<u>Secon</u> W S D D D	Indary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Depth (in Remarks: 7 YDROLO YDROLO Vetland Hy Primary India Saurface High Wa Saturati Saturati Water M Sedimen	NO EURP ABLE CBS GY drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver int Deposits (B2) (No	ENCE SERVET ator is sufficien ine) nriverine)	nt) Salt Crus Biotic Crus Aquatic I Hydrogei Oxidized	at (B11) ust (B12) nvertebrate n Sulfide Oc Rhizospher	s (B13) for (C1) res along l	Living Roo:	Secon W D D D D D D D	adary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7)
Depth (in Remarks: 7 YDROLO Vetland Hy Primary India Saturata Saturata Saturata Saturata Saturata Saturata Drift De:	NO EURP ABLE CBS GY drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive	ervere servere ator is sufficien ine) nriverine) rine)	nt) Salt Crus Biotic Crus Aquatic I Aquatic I Aquatic I Aquatic I Aquatic I Aquatic I Aquatic I Aquatic I Aquatic I	st (B11) ust (B12) nvertebrate n Sulfide Oc Rhizosphei e of Reduce	s (B13) lor (C1) res along l d Iron (C4	Living Roo:	Secon W S D D D D D D T C	Indary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8)
Depth (in Remarks: 7 YDROLO Vetland Hy Primary Indii Saturati Saturati Saturati Saturati Saturati Saturati Drift De: Surface	NO EUIP ABLE CBS GY drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6)	ine)	nt) Salt Crus Biotic Crus Aquatic I Aquatic I	st (B11) ust (B12) nvertebrate n Sulfide Oc Rhizosphei e of Reduce ron Reductio	s (B13) ior (C1) res along l d Iron (C4 on in Plow	_iving Roo:) ed Soils (C	<u>Secon</u> W S D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D 	adary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C

Water-Stained Leaves (8	39)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes No 🔀 Depth (inches):	_
Water Table Present?	Yes No X Depth (inches):	_
Saturation Present? (includes capil'ary fringe)	Yes No Depth (inches):	Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stre	eam gauge, monitoring well aerial photos, previous ins	pe cti ons), if available:
Remarks: SHALLOU	TOPOGRAPHIC SWALLS - NO	EVIDENCE OF RELENT
FLOW OR S	EASONAL WESTAMD HYDR	ECLOGY AT THIS LOCATION
KSHOWN AS	INTERMITTENT BLUE LINE	on TOPO MAP

Project/Site: LINE 400/40	City/County: Yoro	Samplin	g Date: 4/4/07
Applicant/Owner: PG3E		State: <u>CA</u> Samplin	g Point: <u>SPOZ</u>
Investigator(s): R.HUDDLESTON, T. ARM STRENG	Section, Township, Range:	ION OLE	SEC 9
Landform (hillslope, terrace, etc.): TOESLOPE	Local relief (concave, conve	ex. none): NONE	Slope (%): 2-5/8
Subregion (LRR): Lat: 32	3°44'08,960 Lor	ng: 121° 52' 41.49	2 Datum: W65 84
Soil Map Unit Name: SEHORN - BALCOM 2-15	%	NWI classification:	NONE
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No 🔀	(If no, explain in Remarks.)	
Are Vegelation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" present?	Yes 🗶 No _
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed	, explain any answers in Rem	narks.)
20 G Z GZC 86 35	10 NO 1		

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Xo Yes No X Yes No X	ls the Sampled Area within a Wetland? Yes No _メ	<i>2</i> 1
Remarks: WEALLY EXP	PRESSED SWALE	NO EUIDENCE OF WERTHN	P
HYPROLOGI OR	ORDINARY IFICIT	WATER MARK IN THIS AD	REA
- BELOW AVERAS.	E RAINFALL TO	DATE	

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test workshe	et:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Specie	es .	
1. NONE				That Are OBL, FACW, or FA	AC:/	_ (A)
2				Total Number of Dominant		
3	. <u> </u>			Species Across All Strata:	/	(B)
4.						
Total Cover	NA			Percent of Dominant Specie	es 100%	(2)(2)
Sapling/Shrub Stratum				THACKIE ODL, FACW, OF FA	40. 10010	_ (A/B)
1. NONE				Prevalence Index workshe	eet:	
2.				Total % Cover of:	Multiply by:	
3.				OBL species	x 1 =	
4				FACW species	x2=	
5				FAC species	x 3 =	_
5Total Cover	NIA			FACU species	_ × 4 =	-
Herb Stratum					_ ^+	-
1 HORDEUM MARINUM	75	×	FAC	Column Totolo	_ x3=	- (0)
2 BROMUS HORDEALEUS	10		FALU-		_ (A)	— (B)
3 ICHIOM MULTIFICERUM	5		FAL	Prevalence Index = B	3/A =	
A AFOILALA POLYMORPHA	7		FACIA-	Hydrophytic Vegetation In	dicators:	
A DEFILING POURT			A1/	X Dominance Test is >50	1%	
D. THUENA BAILBAILA			- PL	A Deminiance restrict 50	01	
6. COMEX CILISPAS			FACW-	Prevalence index is \$5.		
7. CONVOLVULUS AICVERSIS	_21_		NL	data in Remarks or	ons (Provide suppo	orting
8. CENTAUREA SOLSTITAUS	41		PL	Problematic Hydrophyti	ic Vegetation ¹ (Evel	nin)
Total Cover	: 795%				ic vegetation (Lxpi	
Woody Vine Stratum					a constant of the second second	
1. NOPE				be present	d wetland hydrology	must
2		ŝ <u></u>				
Total Cover	NA	2		Hydrophytic		
% Bare Ground in Hero Stratum 45% % Cover	of Biotic C	rust MI	4	Present? Yes	× No	
Remediei			<u> </u>			
SPARSE BROMUS DIANDI	eus,	VICIA	VILOSI	A ALSO SCATT	ERED	
MRaulatour AUS ARCA		Dior	ALCT	all And IF - a.		
ITTIC CUTTON THE ATCHA	- NO	11/5/1		crime pice	TITE	
ADJACENT GRASSLAND -:	SHIFT	10 1	IURE,	HOPPEUM MA	RINUM	
					<i>r</i> .	

anth	Matrix	664	Redr	nx Feature	S			C BLO Different" 2000 France
inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-4	104R 4/1+	100%					CL	GRAVELLY
4-16	107/2/2	100%		-	-	-		FINE GRAVELS
ype: C=C ydric Soll Histosol Histic F	oncentration, D=Depl Indicators: (Applica (A1) p.nedon (A2)	letion, RM=F able to all L	Reduced Matrix. RRs, unless othe Sandy Red Stripped M	² Locatior erwise not lox (S5) atrix (S6)	n: PL=Por ed.)	e Lining, R	C=Rool Cha Indicator 1 cm 2 cm	nnel, M=Matrix. rs for Problematic Hydric Solls ³ : Muck (A9) (LRR C) Muck (A10) (LRR B)
Black H	istic (A3)		Loamy Mu	cky Minera	l (F1)		Redu	uced Vertic (F18)
_ Hydroge	en Sulfide (A4)		Loamy Gle	yec Matrix	: (F2)		Red	Parent Material (TF2)
_ Stratitie _ 1 cm M: _ Depiete	d Layers (A5) (LRR C uck (A9) (LRR D) d Below Dark Surface ark Surface (A12)	2) e (A11)	Depleted M Redox Dar Depleted D Redox Der	hathx (F3) k Surface bark Surfac	(F6) æ (F7) F8)			r (Explain in Remarks)
Sandy I	Micky Mineral (S1)		Vernal Poo	ols (F9)	, 0)		³ Indicator	s of hydrophylic vecetation and
Sandy (Gleved Matrix (S4)						wetlan	id hydrology must be present.
estrictive	Layer (if present):							
Type: Deoth (in	NONE Iches): >16						Hydric So	il Present? Yes No ≫
emarks:	SLIGHT OXI	PATTON	ALONG	ROCTS		UPPA	E/2 1'	· - NO STRONG

2.7

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) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen St. fide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livi	ng 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 <u>No X</u> Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks: SHALLOW TOPOGRAPHIC SWALE - M	My CONVEY EPHEMERAL
FLOWS IN RESPONSE TO STORM EVENT	5, BUT DOES NOT
APPEAR TO SUPPORT PROLONDED	SATURATION OR INUNPATION
* BLUE LINE ON TOPO MAP	

Project/Site: LINE_ 400 / 401	City/County:	YOLD	Sampling Date:	414107
Applicant/Owner: PG\$E			State: Sampling Point:	_spo3
nvestigator(s); R. HUDDLESTON. T. AR	MSTRONG Section, Tov	nship, Range	ION OIE SEC	8
andform (hillstope, terrace, etc.): HILLSLOP	E Local relief	(concave, con	vex, none): NONE Sk	ope (%): 2-5
Subregion (LRR):	Lat: 38° 44'	09.092"L	ong: 121° 53'18,777" Date	um: W6584
Soil Man Linit Name: SEHORN - BALC	OM COMPLEX	2-15%	NWI classification:	5
Are dimetic (hydrologic conditions on the site bynical f	or this time of year? Yes	No X	(If no, explain in Remarks.)	
Are Verentation Soil or Hydrology	significantly disturbed?	Are "No	mal Circumstances" present? Yes	K No
Are Vegetation Soil or Hydrology	<pre></pre>	(If need)	ed explain any answers in Bernarks)	
			i i i i i i i i i i i i i i i i i i i	
SUMMARY OF FINDINGS – Attach site n	nap showing sampling	point loc	ations, transects, important fe	etures, etc.
Hydrophytic Vegetation Present? Yes	No X le thu	Sampled Ar		
Hydric Soil Present? Yes	NoX	n a Wetland?	Yes No X	
Wetland Hydrology Present? Yes	<u>No ×</u>			
Remarks: GRASSY UPLAND SW.	ME . NO EL	+ PENCL	E OF WEATAND	
UTARACTERIS TOCS				
- BELOW AVERADE	SEASONAL RA	NFALL	- tO PATE	
VEGETATION				
	Absolute Dominant	Indicator E	Iominance Test worksheet:	
Tree Stratum (Use scientific names.)	<u>% Cover Species?</u>	Status N	lumber of Dominant Species	
1. NONE		¹	hat Are OBL, FACW, or FAC:	(A)
2		I	otal Number of Dominant	
3			pecies Across All Strata:	(B)
Total	Cover: MA	F	Percent of Dominant Species	DS (AD)
Sapling/Shrub Stratum	<u> </u>			<u>78</u> (AB)
1. NONE		F	revalence index worksheet:	
2		;	Total % Cover of:Multip	ily by:
3				
4		[[ACV species 3 $x_2 = 2$	10
5	Cover MA	'	ACU species $55 \times 4 =$	220
Herb Stratum	00001.	l l	JPL species $(x 5 =$	5
1. BROMUS HERDEACEU	<u>s 50 x</u>	EACU- (Column Totals: <u>96</u> (A) <u>3</u>	340 (B)
2. HORDEUM MARINUM	<u>35 × </u>	FAC		and
3. RUMEX CRISPUS	5	FACW-	Prevalence Index = B/A =	57
4. MEDICAGO POUTMONT	11/4 5	FACU-	Demission Testie 250%	
5. CUPINUS BILLOIC	/	- <u>NL</u> -	Dominance Test is >50%	
0			Morphological Adaptations ¹ (Provide	e supporting
8		[_]	data in Remarks or on a separate	e sheet)
Total	Cover: 795%		Problematic Hydrophytic Vegetation	¹ (Explain)
Woody Vine Stratum				
1. NONE		h	Indicators of hydric soil and wetland hyd be present	drology must
2		[`		
Total	Cover: N/A		iyarophytic Jegetation	
% Bare Ground in Herb Stratum _ 4 % 5 %	Cover of Biotic Crust//	۱ 4	Present? Yes No _	<u>×</u>
Remarks: (RASSY SWATE EA	ELMIRE - NO	DIST	NOT ANAMIE ERAN	-1
ULAST SWALL PA	7101-2 - 100	m / / /	-1 CHATFOR PROP	
ADJACENT GRASSIAN,	D			

.

	Matrix		Redo	x Feature	5					
inches)	Color (moist)	%	Color (moist)	%	Tvpe'	_Loc ²	Texture		Rem	arks
0-2	104124/2	100%			-	-	CL	UERY	GRA	au7
2-17	104/24/2	100%				-	CL	FIME-1	YEP	GRAVELS
//////////////////////////////////////	concentration. D=Der	Dietion. RM=	Reduced Matrix	² Location		e Lining R	C=Root Char	nnei M=Matrii	×	
dric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ed.)		Indicators	s for Problem	natic Hy	dric Soils3:
Histoso	L (A1)		Sandy Red	ox (S5)			1 cm	Murt 1AG1 /1	RRC	
				/						
Histic E	oipedon (A2)		Stripped M	atrix (S6)			2 cm	Muck (A10) (I	LRR B)	
Histic E Black H	pipedon (A2) Islic (A3)		Stripped M Loamy Muc	atrix (S6) cky Minera	I (F1)		2 cm Redu	Muck (A10) (I ced Vertic (E1	LRR B)	
Histic E Black H	pipedon (A2) Istic (A3) en Sulfide (A4)		Stripped M Loamy Muc	atrix (S6) cky Minera ved Matrix	I (F1)		2 cm Redu	Muck (A10) (I ced Vertic (F1 Paren: Materia	LRR B) 18)	
Histic E Black H Hydrog Stratifie	pipedon (A2) Istic (A3) en Sulfide (A4) d Lavers (A5) (L RR	C)	Stripped M Loamy Muc Loamy Gle Depleted M	atrix (S6) cky Minera yed Matrix fatrix (E3)	I (F1) (F2)		2 cm Redui Red F	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R	LRR B) 18) al (TF2)	
Histic E Black H Hydrog Stratifie	pipedon (A2) Istic (A3) en Sulfide (A4) d Layers (A5) (LRR	C)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Dari	atrix (S6) oky Minera yed Matrix fatrix (F3)	l (F1) (F2)		2 cm Redu Red F Other	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R	LRR B) 18) al (TF2) emarks))
Histic E Black H Hydrog Stratifie	pipedon (A2) Istic (A3) en Sulfide (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Polou (LRR D)	C)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Dark	atrix (S6) cky Minera yed Matrix fatrix (F3) k Surface	l (F1) (F2) (F6)		2 cm Redu Red F Other	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R	LRR B) 18) al (TF2) emarks))
Histic E Black H Hydrog Stratifie 1 cm M Deplete	pipedon (A2) Istic (A3) en Sulfide (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surfac	C) æ (A11)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Darl Depleted D	atrix (S6) oky Minera yed Matrix Matrix (F3) k Surface Wark Surface	(F1) (F2) (F6) 2e (F7)		2 cm Redui Red F Other	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R	LRR B) 18) al (TF2) emarks))
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D	pipedon (A2) Istic (A3) en Sulfide (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surfac ark Surface (A12)	C) œ (A11)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Darl Redox Depleted D Redox Dep	atrix (S6) cky Minera yed Matrix fatrix (F3) k Surface bark Surface ressions (l (F1) (F2) (F6) æ (F7) F8)		2 cm Redui Red F Other	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R	LRR B) 18) al (TF2) remarks))
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy i	pipedon (A2) Istic (A3) en Sulfide (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1)	C) æ (A11)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Darl Redox Dep Redox Dep Vernal Poo	atrix (S6) cky Minera yed Mairix fatrix (F3) k Surface tark Surfac tressions (ils (F9)	l (F1) (F2) (F6) æ (F7) F8)		2 cm Redui Red F Other ¹ Indicators	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R	LRR B) 18) al (TF2) emarks) lic veget) tation and
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy i Sandy i	pipedon (A2) Istic (A3) en Sulfide (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	C) æ (A11)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Darl Depleted D Redox Dep Vernal Poo	atrix (S6) oky Minera yed Matrix fatrix (F3) k Surface bark Surface bark Surface bark Surfac bresslons (lls (F9)	l (F1) (F2) (F6) æ (F7) F8)		2 cm 2 cm Reduce Red F Other Indicators wetlance	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R s of hydrophyt d hydrology m	LRR B) 18) al (TF2) emarks; tic veget nust be p) tation and present.
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy i Sandy i estrictive	pipedon (A2) Istic (A3) en Sulfide (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):	C) 28 (A11)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Darl Depleted D Redox Dep Vernal Poo	atrix (S6) cky Minera yed Matrix fatrix (F3) k Surface bark Surface park Surfac pressions (ils (F9)	l (F1) (F2) (F6) æ (F7) F8)		2 cm 2 cm Reduination 2 cm Reduination Provide the second se	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R s of hydrophyt d hydrology m	LRR B) 18) al (TF2) emarks tic veget) ation and present.
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy i Sandy i estrictive Type:	pipedon (A2) Istic (A3) en Sulfde (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): NoNE	C) æ (A11)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Darl Depleted D Redox Dep Vernal Poo	atrix (S6) cky Minera yed Matrix fatrix (F3) k Surface bark Surfac pressions (ils (F9)	l (F1) (F2) (F6) æ (F7) F8)		2 cm 2 cm Reduination 2 cm Red F Other ¹ Indicators wetland	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R s of hydrophyt d hydrology m	LRR B) 18) al (TF2) emarks tic vegen) ation and present.
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy i Sandy o estrictive Type: Depth (ir	pipedon (A2) Istic (A3) en Sulfde (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): Monke uches):	C) æ (A11)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Darl Redox Dep Redox Dep Vernal Poo	atrix (S6) cky Minera yed Matrix fatrix (F3) k Surface lark Surface ressions (ressions (ils (F9)	(F2) (F2) (F6) æ (F7) F8)		2 cm 2 cm Reduination Provide the second	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R s of hydrophyt d hydrology m	LRR B) 18) al (TF2) lemarks; tic veger bust be p) present.
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy i Sandy i estrictive Type: Depth (ir	pipedon (A2) Istic (A3) en Sulfde (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): NowE aches):	C) 20 (A11)	Stripped M. Loamy Muc Loamy Gle; Depleted M Redox Darl Redox Dep Redox Dep Vernal Poo	atrix (S6) cky Minera yed Matrix fatrix (F3) k Surface lark Surface ressions (is (F9)	(F1) (F2) (F6) æ (F7) F8)		2 cm 2 cm Red u Red F Other ¹ Indicators wetland Hydric Soi	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R s of hydrophyt d hydrology m I Present?	LRR B) 18) al (TF2) lemarks; tic vege nust be p) present. No X
Histic E Black H Hydrog Stratifie 1 cm M Deplete Thick D Sandy i Sandy i Sandy i Depth (ir amarks:	pipedon (A2) Istic (A3) en Sulfde (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): 	C) 20 (A11) 20 (A11)	Stripped M. Loamy Muc Loamy Gle Depleted M Redox Darl Depleted D Redox Dep Vernal Poo	atrix (S6) cky Minera yed Matrix fatrix (F3) k Surface lark Surface ressions (ressions (ressions (ressions (ressions (ressions ((F1) (F2) (F6) æ(F7) F8)		2 cm 2 cm Reduin Red F Other ⁵ Indicators wetland Hydric Soi F_1 ME	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R s of hydrophyt d hydrology m I Present?	LRR B) 18) al (TF2) lic veget hust be p Yes) present. No X
Histic E Black H Hydrog Stratifie 1 cm M Depiete Thick D Sandy i Sandy i Sandy i estrictive Type: Depth (ir emarks:	pipedon (A2) Istic (A3) en Sulfde (A4) d Layers (A5) (LRR uck (A9) (LRR D) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): 	С) 20 (А11) СУ бр 25 А. Б	Stipped M. Loamy Muc Loamy Gle Depleted M Redox Darl Redox Dep Vernal Poo	atrix (S6) cky Minera yed Matrix fatrix (F3) k Surface bark Surface ressions (ressions (ressions (ressions (ressions (ressions ((F1) (F2) (F6) æ(F7) F8)		2 cm 2 cm Reduin Red F Other ¹ Indicators wetland Hydric Soi	Muck (A10) (I ced Vertic (F1 Paren: Materia (Explain in R s of hydrophyti d hydrology m I Present?	LRR B) 18) al (TF2) lic veget hust be p Yes) present. No X

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) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfice Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Live	ng Roots (C3) Thin Muck Surface (C7)
Drift Depos.ts (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Sols (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 Tes: (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No _X_ Depth (inches):	
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks: - UPLAND SWALE - MAY CONVEY E	PHEMERAL FLOW IN RESPONSE
TO STORM EVENTS, BUT NO INDICATION O	F PROLONGER SATURATION
CIR INUNPATION IN THIS AREA	
-BLUE LINE ON TOPO MAP NEAR THE	S COCATION

Project/Site: LINE 400 / 40/ City/County:	YOLO Sampling Date: 4/4/07
Applicant/Owner: PG\$E	State: CA Sampling Point: SP 04
nvestigator(s): R. HUPPLESTON, T. ARMSTRONG Section. Tow	mship, Range: ION OIE SEC7
andform (hillslope, terrace, etc.): HILLSLOPE	concave, convex, none); NONE Slope (%): 2-5-
Subregion (LRR): C Lat: $38^{\circ}44'/0$.138" Long: 121" 53' 48.353" Datum: 1265 84
Sail Man Unit Name: SEHORN - RALCOM COMPLEX 2-	NWI classification:
the dimetic / budrologic conditions on the site braical for this time of year? Yes	No. X (If no. explain in Remarks.)
Are vegetation, soil, or Hydrology signmeanly disturbed?	Ale Normal Circumstances present? Yes X No
Are Vegetation, Soll, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Sampled Area
Hydric Soil Present? Yes No within	na Wetland? Yes No X
Wetland Hydrology Present? Yes <u>No X</u>	
Remarks: UPLAND SWALE - NO EUIDENCE	OF WETTHND ITTPROLOGY
AT TITS LOCATION - APPEARS TO SUPPORT	T WERLAND FLOWS
- BELOW AVERTOE RAINFALL TO	PATE - BLUE UNE ON TOPO MATE
VEGETATION	
Absolute Dominant	Indicator Dominance Test worksheet:
Tree Stratum (Use scientific names.) <u>% Cover</u> Species?	Status Number of Dominant Species
1. <u>NONF</u>	That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
3	Species Across All Strata: Z (B)
	Percent of Dominant Species
Sapling/Shrub Stratum	That Are OBL, FACW, or FAC: _/00% (A/B)
1. NONE	Prevalence Index worksheet:
2	Total % Cover of:Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5	FAC species x 3 =
Herb Stratum	FACU species X 4 =
1. HORDEUM MARINUM 60 x	FAC
2. LOLIUM MULTIFEORUM 30 X	GACH (B)
3. RUMEX CRISPUS 5	FAcu- Prevalence Index = B/A =
4. PLAGIOBOTHPYS STIPITATUS 5	OBL Hydrophytic Vegetation Indicators:
5. AVENA BARBATA Z	Dominance Test is >50%
6. MEDICAGO POUT MORPHETA	ACH Prevalence Index is $\leq 3.0'$
7	Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	
1. NONE	¹ Indicators of hydric soil and wetland hydrology must
2	be present.
Total Cover: MA	Hydrophytic
% Bare Ground in Herb Stratum 078 % Cover of Biotic Crust M/A	Vegetation Present? Yes X No
Remarks:	
SAMPLE POINT AT LOW DEPRE	555/on WITTHIN SWALE
NEAR LULVERT - DOWNSLOPE THE	EVEGETATION RECENCES
MORE SIMILAR TO	in the second se
AVIACENT	GRASSLAN 17

Depth	Matrix		Redox Features						
(inches)	Color (maist)	%	Color (moist)	%	Type'	_Loc ²	Texture	Remarks	
0.4	10724/2	98%+	57124/8	42%	۷	RC	SLL	VERY GRAVELLY	
4-14	107/24/2	100%					SCL	FINE-MED. GENUBLS	
Type: C=C	Concentration, D=Dep	pletion, RM=	Reduced Matrix.	² Location	PL=Por	e Lining, f	RC=Rcot Chan	nel, M=Matrix.	
Hydric Soll	Indicators: (Applic	cable to all I	RRS, UNIESS OTHE	erwise note	ed.)		Indicators	for Problematic Hydric Soils":	
Histoso	ol (A1)		Sandy Rec	lox (S5)			1 cm l	Muck (A9) (LRR C)	
Histic E	pipedon (A2)		Stripped M	latrix (S6)			2 cm Muck (A10) (LRR B)		
Black H	listic (A3)		Loamy Mu	cky Mineral	(F1)		Reduced Vertic (F18)		
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)		
Stratifie	ed Layers (A5) (LRR	C)	Depleted N	Aatrix (F3)			Other (Explain in Remarks)		
1 cm M	uck (A9) (LRR D)		Redox Dar	k Surface (F6)				
Deplete	ed Below Dark Surface	ce (A11)	Depieted D	bark Surface	e (F7)				
	ark Surface (A12)		Redox Dep	pressions (F	8)				
Thick D	y Mucky Mineral (S1) Vernal Pools (F9)			ols (F9)			³ indicators of hydrophytic vegetation and		
Thick D Sandy		Sandy Gleyed Matrix (S4)					welland hydrology must be present.		
Thick E Sandy Sandy	Gleyed Matrix (S4)				-				
Thick E Sandy Sandy Restrictive	Gleyed Matrix (S4) Layer (if present):								
Thick E Sandy Sandy Restrictive Type:	Gleyed Matrix (S4) Layer (if present): N/ A								
Thick D Sandy Sandy Restrictive Type: Depth (in	Gleyed Matrix (S4) Layer (if present): N/ A Inches): > /4 "						Hydric Soil	Present? Yes No _X	
Thick D Sandy Sandy Restrictive Type: Depth (in Remarks:	Gleyed Matrix (S4) Layer (if present): N/ A nches): > 14 "	(DAICE		5 (4)			Hydric Soil	Present? Yes No X	
Thick D Sandy Sandy Restrictive Type: Depth (in Remarks:	Gleyed Matrix (S4) Layer (if present): N/ A nches): > 14 " FEW I RON	CONCE	NTR F TT ONS	5 ,2	URP.	ER 1	Hydric Soil	Present? Yes No X	

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) (Riverine)
Figh Water Table (A2) Biotic Crust (312)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Ocor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin	g Roots (C3) Thin Muck Surface (C7)
X Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayf.sh Burrows (C8)
Surface Soil Cracks (B6) Recent .ron Reduction in Plowed S	oils (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 X Depth (inches):	
Saturation Present? Yes No _ X Depth (inches): (includes cabillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ions), if available:
Remarks: SAMPLE POINT TAKEN AT CULVERT	PISCHARGE POINT IN
WHAT APPEATES TO BE TITLE WETTEST P.	ART OF THE SWALE.
DRIPT LINES AT FENCE SUGGEST OVER	UND FICH THROUGH
THIS ARFA, BUT NO EVIDENCE OF PLU	ONGED SATURATION / INUNPATION

Project/Site: LINE 400/401	City/Cou	unty: You	0	Sampling Date: 3/28/08
Applicant/Owner: PG\$E			State:A	_ Sampling Point: <u>4a</u>
nvestigator(s): P. HUPPLESTON	Section,	, Township, Ran	ge: ۲۵ م م	IE SEC7
andform (hillslope, terrace, etc.): _HILLSLOPE	Local re	elief (concave, c	onvex, none):	or E Slope (%): 0-9
Subregion (LRR):	Lat: <u>38° 44</u>	09.808	Long: 121 53	48.193" Datum: 665 8
Soil Map Unit Name: SEItORN - BALCON	1 COMPLEX	2-15%	NWI class	ification: NONE
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes	, <u>×</u> No_	(If no, explain in	Remarks.)
Are Vegetation . Soil _, or Hydrology	_significantly disturbe	d? Are "I	Normal Circumstances	s" present? Yes <u>K</u> No
Are Vegetation . Soil , or Hydrology	_ naturally problemation	c? (If ner	eded, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing samp	ling point lo	ocations, transec	ts, important features, et
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks: Control of the second		s the Sampled vithin a Wetlan	Area d? Yes	No <u>_X</u>
- WEAKLY EXPLESSE	I SWACE	to The	HE SOUTH	- NO STRONG
EURGALE OF PROLONGE	D SAFURA 10	N or	INUNPAD	ION
VECETATION				
Tree Stratum (Use scientific names.)	Absclute Domir % Cover Speci	ant Indicator es? Status	Dominance Test wo Number of Dominant That Are OBL_EACV	orksheet: I Species N or FAC: Z (A)
2			Total Number of Dec	nicent
3.			Species Across All S	Strata:3 (B)
4			Percent of Dominant	Spacies
Total Co	over: <u>N/A</u>		That Are OBL, FAC	N, or FAC: 66% (A/B
Sapling/Shrub Stratum			Prevalence Index w	vorksheet:
1. NONE			Total % Cover o	of: Multiply by:
2			OBL species	x 1 =
3			FACW species	x 2 =
4 5			FAC species	x 3 =
5 Total C	over: MA		FACU species	x 4 =
Herb Stratum		201.0	UPL species	x 5 =
1. HORDEUM MARINUM SSP. GUS	<u>x 6/02 400</u>	<u>FAC</u>	Column Totals:	(A)(B)
2. LOLIUM MULTIFLORUM	<u> </u>	<u>FAC</u> *	Broucloses Inc	
3. BROMUS HORDEACEUS	<u>25/0 ×</u>		Hydrophytic Voget	dex = D/A =
4. AVENA BARBATA	5%	<u>NL</u>		tic >50%
5. MEDICAGO FOUTPHOLOPITA	<u> </u>		Prevalence Inde	$\frac{13 \times 30\%}{100}$
6. LUPINUS BICOLOIC 7. EROPIUM CICUTATRIUM			Morphological A	Adaptations ¹ (Provide supporting
8	·····		Problematic Hy	arks or on a separate sneet) drophytic Vegetation ¹ (Explain)
Woody Vine Stratum	over. 100%			ang pantakan salah ka ka ka ka
1. NONE			¹ Indicators of hydric be present.	soil and wetland hydrology must
2			Liveles - boot	
	over: <u>MA</u>	NA	Vegetation Present?	Yes X No
% Bare Ground in Herb Stratum % C		<u>17.7.</u>		NO
Remarks:	2			
4 ¹				
				x

Profile Description: (Describe to the o	lepth needed to docur	nent the inc	ulcator		in the assented	
Depth <u>Matrix</u> (inches) Color (moist) %	Reco Color (moist)	x Features %	Tvpe ¹	Loc ²	Texture	Remarke
0-Z 16784/2 992	\$ 57124/6	1%	2	RC	SCL	MANT PROTS / EINE CI
7-5 107R417 100	7 -	_	-	-	6.561	
5-15 107R4/2 100	<u> </u>	-	-		CLAY	FINE GRAVELS
Type: C=Concentration, D=Depletion, F	RM=Reduced Matrix.	² Location:	PL=Por	e Lining, F	RC=Root Chan	nel. M=Matrix
lydric Soil Indicators: (Applicable to	all LRRs, unless other	rwise noted	d.)		Indicators	s for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Red	ox (S5)			1 cm	Muck (A9) (LRR C)
Histic Epipedon (A2)	Supped Ma	atrix (50) sky Mineral ((E1)		2 cm	Muck (A10) (LRR B)
Hydronen Sulfide (A4)	Loamy Glev	ved Matrix (F	F2)		Red F	Parent Material (TE2)
Stratified Lavers (A5) (LRR C)	Depleted M	latrix (F3)	-,		Other	(Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark	Surface (F	6)			
Depleted Below Dark Surface (A11)	Depleted D	ark Surface	(F7)			
Thick Dark Surface (A12)	Redox Dep	ressions (F8	3)			
Sandy Mucky Mineral (S1)	Vernal Pool	ls (F9)			^a Indicators	of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)					wetland	hydrology must be present.
Restrictive Layer (if present):						
Type: POPE						
					and the second s	
Depth (inches): <u>NA</u> Remarks: NO STRONG SAMPLE POINT	IN DICATTON	U OF	147	PRIC	Hydric Soi	Present? Yes <u>No X</u> - AT TTHIS
Depth (inches): <u>MA</u> Remarks: NO STRONG SAMPLE POINT YDROLOGY	IN PILATTON	U OF	1+7	PEIC	Hydric Soil	Present? Yes <u>No X</u>
Depth (inches): <u>~//4</u> Remarks: NO STRONG SAMPLE POINT YDROLOGY Wetland Hydrology Indicators:	IN PICATTON	U OF	147	PEIC	Hydric Soil	Present? Yes <u>No X</u> - AT TTHIS
Depth (inches): <u>MA</u> Remarks: NO STRONG SAMPLE POINT YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one indicator is s	I ~ DI LATT on	JOF	147	PRIC	Hydric Soil	Present? Yes <u>No X</u> - <i>Ar TTHI S</i> - <i>Mary</i> Indicators (2 or more required) Vater Marks (B1) (Riverine)
Depth (inches): <u>MA</u> Remarks: NO STRONG SAMPLE POINT YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1)	<i>I ~ PI LATT on</i> sufficient) Salt Crust	(311)	147	P,EIC	Hydric Soil	Present? Yes <u>No X</u> - AT TTHIS Indary Indicators (2 or more required) Vater Marks (B1) (Riverine) iediment Deposits (B2) (Riverine)
Depth (inches): <u>MA</u> Remarks: <u>MO</u> STRONG SAMPLE POINT YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2)	sufficient) Salt Crust	(311) st (B12)	147	P,EIC	Hydric Soil	Present? Yes <u>No X</u> Mar <i>THI S</i> Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) iediment Deposits (B2) (Riverine) prift Deposits (B3) (Riverine)
Depth (inches): <u>MA</u> Remarks: <u>MO</u> STRONG SAMPLE POINT YDROLOGY Vetland Hydrology Indicators: <u>Primary Indicators (any one indicator is s</u> Surface Water (A1) <u>High Water Table (A2)</u> Saturation (A3)	sufficient) Salt Crust Biotic Crust Aquatic Int	(311) st (B12) vertebrates	(B13)	<i>PPIC</i>	Hydric Soil	Present? Yes <u>No X</u> Mar <i>THL S</i> Mar <i>THL S</i> No <u>X</u> No <u>X</u>
Depth (inches): <u>MA</u> Remarks: <u>MO</u> STRONG SAMPLE POINT YDROLOGY Vetland Hydrology Indicators: <u>Primary Indicators (any one indicator is s</u> Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	sufficient) Salt Crust Biotic Crust Aquatic Int Hydrogen	(311) st (B12) vertebrates Sulfide Oco	(B13) or (C1)	<i>pPic</i>	Hydric Soil	Present? Yes <u>No X</u> Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) iediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches): <u>MA</u> Remarks: <u>MO</u> STRONG SAMPLE POINT YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	sufficient) Salt Crust Biotic Crust Aquatic Im Hydrogen ne) Oxid:zed F	(311) st (B12) vertebrates Sulfide Ocio Rhizosphere:	(B13) or (C1) is along	Living Roc	Hydric Soil Solc Secon Secon Secon Secon C S C D S C D S C D S C D S C D S C D S C D S C D S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S S C S S C S S C S S C S S S C S S S C S S S S S S S S S S S S S	Present? Yes <u>No X</u> Mar THI S Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) iediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Dry-Season Water Table (C2) hin Muck Surface (C7)
Depth (inches): <u>MA</u> Remarks: <u>MO</u> STRONG SAMPLE POINT YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	sufficient) Salt Crust Biotic Crust Aquatic Inv Hydrogen ne) Oxid:zed F Presence	(311) st (B12) vertebrates Sulfide Oco Rhizosphere: of Reduced	(B13) or (C1) Iron (C4	Living Roc	Hydric Soil Solc Secon Secon Secon S C S C Dis (C3) T C	Present? Yes <u>No X</u> Mar <i>THI S</i> Mar <i>THI S</i> Mater Marks (B1) (Riverine) Mater Marks (B1) (Riverine) Mater Marks (B1) (Riverine) Mater Marks (B1) (Riverine) Marinage Patterns (B10) Marinage
Depth (inches): <u>MA</u> Remarks: <u>MO</u> STRONG SAMPLE POINT YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	sufficient) Salt Crust Salt Crust Biotic Crust Aquatic Im Hydrogen ne) Oxid:zed F Presence Recent Iro	(311) st (B12) vertebrates Sulfide Ocio Rhizosphere: of Reduced in Reduction	(B13) or (C1) iron (C4 h ir Plow	Living Roc) ed Soils (Hydric Soil Secon Secon Secon S C Dis (C3) C C6) S	Present? Yes <u>No X</u> Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) iediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Dry-Season Water Table (C2) hin Muck Surface (C7) Prayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Depth (inches):/A Remarks:	sufficient) Salt Crust Biotic Crust Biotic Crust Aquatic Inv Aquatic Inv Hydrogen ne)Oxid:zed F Presence Recent Iro G(B7)Other (Exp	(311) st (B12) vertebrates Sulfide Octo Rhizosphere: of Reduced in Reduction blain in Rem	(B13) or (C1) is along i iron (C4 n ir Plow harks)	Living Roc) ed Soils (Hydric Soil Solc Secon Secon Secon Secon Cols (C3) C6) S	Present? Yes <u>No X</u> - <i>M THL S</i> - <i>M THL S</i> - <i>M THL S</i> - <i>M THL S</i> - <i>M Constant of the second sec</i>
Depth (inches): <u>MA</u> Remarks: <u>MO</u> STRONG SAMPLE POINT YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation V:sible on Aerial Imagery Water-Stained Leaves (B9)	sufficient) Salt Crust Biotic Crus Aquatic In- Hydrogen Hydrogen Oxid:zed F Presence - Recent Iro Recent Iro Other (Exp	(311) st (B12) vertebrates i Sulfide Ocio Rhizosphere: of Reduced in Reduction blain in Rem	(B13) or (C1) is along i Iron (C4 h in Plow harks)	Living Roc) ed Soils (Hydric Soil Solc Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Secon Seco	Present? Yes <u>No X</u> Mar <i>THI S</i> Ar <i>THI S</i> <i>THI S</i>
Depth (inches): <u>MA</u> Remarks: <u>MO</u> STRONG SAMPLE POINT YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations:	sufficient) Salt Crust Salt Crust Biotic Crust Aquatic Im Hydrogen he) Oxid:zed F Presence - Recent Iro (B7) Other (Exp	(311) st (B12) vertebrates Sulfide Octo Rhizosphere: of Reduced in Reduction blain in Rem	(B13) or (C1) is along i iron (C4 h ir Plow harks)	Living Roc) ed Soils (Hydric Soil Solc Secon Secon Secon S Cols (C3) T C6) S F	Present? Yes <u>No X</u> Mar THI S Mar THI S Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) iediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) hin Muck Surface (C7) Prayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches):/A temarks:o SATUPLEONT YDROLOGY Yetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation V:sible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	sufficient) Salt Crust Biotic Crust Aquatic Im Aquatic Im Aquat	(311) st (B12) vertebrates Sulfide Ocio Rhizosphere: of Reduced in Reduction plain in Rem	(B13) or (C1) is along i lron (C4 n ir Plow narks)	Living Roc) ed Soils (Hydric Soil Solc Secon Secon S C S C S C C C C C S S S S S S S S S S S S S	Present? Yes <u>No X</u> Mar THI S Mar THI S Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) rift Deposits (B3) (Riverine) Prainage Patterns (B10) Dry-Season Water Table (C2) hin Muck Surface (C7) Grayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches)://4	sufficient) Salt Crust Biotic Crust Biotic Crust Aquatic Int Hydrogen Oxid:zed F Presence Recent Irto G (B7) Other (Exp No Depth (int No Depth (int Depth (int	(311) st (B12) vertebrates Sulfide Ocio Rhizosphere: of Reduced an Reduction plain in Rem ches): ches):	(B13) or (C1) is along i liron (C4 n ir Plow iarks)	Living Roc) ed Soils (Hydric Soil Solc Secon Secon Secon Cols (C3) C C6) S F	Present? Yes <u>No X</u> Mar THUS Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) iediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Dry-Season Water Table (C2) hin Muck Surface (C7) Prayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): MA Remarks: No SAMPLE POINT YDROLOGY YDROLOGY YUROLOGY Yurdicity Saturation (A3) Water Marks (B1) (Nonriverine) Surface Soil Cracks (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation V:sible on Aerial Imagery Water-Stained Leaves (B9) Water Table Present? Yes Saturation Present? Yes Yes Yes Yes Saturation Present? Yes	sufficient) Salt Crust Biotic Crust Aquatic In Hydrogen No (B7) Other (Exp No No No Depth (ind Depth (ind No Depth (ind No Depth (ind	(311) st (B12) vertebrates i Sulfide Oco Rhizosphere: of Reduced in Reduction blain in Rem ches): ches): ches):	(B13) or (C1) is along i Iron (C4 h ir Plow harks)	Living Roc) ed Soils (Hydric Soil Solc Secon Secon Secon S Secon S S S S S S S S S S S S S	Present? Yes <u>No X</u> Mar <i>THL S</i> Mar <i>THL S</i> Mar <i>Marks</i> (B1) (Riverine) Water Marks (B1) (Riverine) Water Marks (B1) (Riverine) Water Marks (B3) (Riverine)
Depth (inches):/A	sufficient) Sufficient) Salt Crust Biotic Crust Aquatic Im Hydrogen No Presence Recent Iro (B7) Depth (inc No No Depth (inc monitoring well, aerial of	(311) st (B12) vertebrates Sulfide Ocio Rhizosphere: of Reduced in Reduction plain in Rem ches): ches): ches): photos, prev	(B13) or (C1) is along i lron (C4 n ir Plow iarks)	Living Roc) ed Soils (pections),	Hydric Soil Second <	Present? Yes <u>No X</u> Mar <i>THL S</i> Mar <i>THL S</i> Ar <i>THL S</i> (Riverine) Ar <i>ThL S</i> (Riverine) Ar <i>ThL S</i> (B10) Ar <i>ThL S</i> (B10) Ar <i>ThL S</i> (B10) Ar <i>ThL S</i> (B10) Ar <i>ThL S</i> (B10) Ar <i>ThL S</i> (C2) Ar <i>ThL S</i> (C2) Ar <i>ThL S</i> (C2) Ar <i>ThL S</i> (C2) Ar <i>ThL S</i> (C3) Ar <i>ThL S</i> <i>ThL </i>
Depth (inches):/A	sufficient) Salt Crust Biotic Crus Aquatic Im Hydrogen No Recent Iro (B7) Depth (ind No No Depth (ind monitoring well, serial ((311) st (B12) vertebrates Sulfide Ocio Rhizosphere: of Reduced in Reduction plain in Rem ches): ches): ches): photos, prev	(B13) or (C1) is along i iron (C4 n ir Plow iarks)	Living Roc) ed Soils (Hydric Soil Secon Secon Secon S S S S S S S S S S S S S	Present? Yes <u>No X</u> Mar <i>THL S</i> Mar <i>THL S</i> Ar <i>THL S</i> <i>THL S</i> <i>Ar THL S</i> <i>Ar Ar Ar <i>THL S</i> <i>Ar Ar Ar <i>Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar Ar Ar Ar Ar Ar Ar Ar Ar <i>Ar Ar <i>Ar Ar A</i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>
Depth (inches):/A	sufficient) Salt Crust Biotic Crust Aquatic In Hydrogen No Recent Iro (B7) Depth (ind No No Depth (ind Tronitoring well, zerial (DETRITUS	(311) st (B12) vertebrates Sulfide Ocio Rhizosphere: of Reduced in Reduction blain in Rem ches): ches): ches): photos, prev	(B13) or (C1) is along i iron (C4 h ir Plow harks)	Living Roc) ed Soils (Dections),	Hydric Soil Solc Secon Secon Secon S C Dis (C3) T C C6) S F and Hydrolog; if available: C E	IPresent? Yes No _X Image: Amage of the second s
Depth (inches): M/A Remarks: No SAMPLE POINT YDROLOGY YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one Indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? <tr< td=""><td>sufficient) Salt Crust Biotic Crus Aquatic Im Hydrogen No Recent Iro (B7) Other (Exp No No Depth (ind No Depth (ind monitoring well, aerial of DETENTUS CCS - BUT</td><td>(311) st (B12) vertebrates Sulfide Ocio Rhizosphere: of Reduced in Reduction blain in Rem ches): ches): ches): photos, prev</td><td>(B13) or (C1) is along i lron (C4 n ir Plow narks)</td><td>Living Roc) ed Soils (</td><td>Hydric Soil</td><td>IPresent? Yes No _X Image: Amage of the second s</td></tr<>	sufficient) Salt Crust Biotic Crus Aquatic Im Hydrogen No Recent Iro (B7) Other (Exp No No Depth (ind No Depth (ind monitoring well, aerial of DETENTUS CCS - BUT	(311) st (B12) vertebrates Sulfide Ocio Rhizosphere: of Reduced in Reduction blain in Rem ches): ches): ches): photos, prev	(B13) or (C1) is along i lron (C4 n ir Plow narks)	Living Roc) ed Soils (Hydric Soil	IPresent? Yes No _X Image: Amage of the second s

SOIL

Sampling Point: 4a

Project/Site: 61ME 400 1401	0	City/County	you	20	Sampling Date: -	3/28/08
Applicant/Owner: PG\$E				State: CA	Sampling Point:	46
Investigator(s): P. HUDDLESTON	5	Section, To	wnship, Ra	nge: 10 N	OLE SE	c7
Landform (hillslope, terrace, etc.): HILLSLOPE		Local relief	(concave,	convex, none):	NE Slor	be (%): C -5
Subregion (LRR):	Lat: 38	° 44' 09	7.639'	Long: 121° 53'	48. 715" Datur	n: w6584
Soil Man Unit Name: SEHORN - BALCOM	COMPLE.	x Z-1	5%	NWI classi	fication Nor	Ξ.
Are climatic / hydrologic conditions on the site typical for th	his time of yea	r2 Yes	< No	(If no, explain in	Remarks)	
Are Vegetation Soil or Hydrology	elonificantly o	licturbod?	Aro		"Nonarka.)	
Are Vegetation, Soll, or Hydrology	noturally prot	lamatic?	Ale	Normal Circumstances		<u> </u>
SUMMARY OF FINDINGS - Attach site mar	showing	samplin	a point l	ocations transect	ters in Remarks.)	aturos oto
			g point i			atures, etc.
Hydrophytic Vegetation Present? Yes		Is the	e Sampleo	l Area		
Wetland Hydrolocy Present? Yes	No X	with	in a Wetla	nd? Yes	№ <u>X</u>	
Remarks:		-				
				PETTO		
VEGETATION						
Tree Stratum (Lise scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:	
1 NONE				Number of Dominant That Are OBL, FACW	Species	(4)
2.				THE	· · · · · · · · · · · · · · · · · · ·	
3				Species Across All St	anant 4	(B)
4				Prove (Device)		(2)
Total Cov	er: <u>P/A</u>			That Are OBL, FACW	, or FAC: 25	2 (A/B)
Saoling/Shrub Stratum				Dravalance Index		
				Total % Cover of	- Multion	. h
2				OBL species		OV:
3				FACW species		
5				FAC species	x 3 =	
Total Cov	er: N/A			FACU species	x 4 =	
Herb Stratum				UPL species	x 5 =	
1. LOLIUM MULTIFLOPUM		<u>×</u>	FAC*	Column Totals:	(A)	(B)
2. BRONUS HORDFACEUS		<u>×</u>	FACU-	Dravalance la de		
3. AVENA BAZBATT		<u> </u>	NL	Prevalence Inde	icon Indiantenai	
4. MEDICAGO POUT MAGUMA	$-\frac{\omega}{\tau}$	<u>_x</u>	1-2-	Dominance Test	is >50%	
5. <u>FICOPIUM GEDIATGOM</u>			- PL-	Prevalence Index	r = 50%	
B. <u>CUPPOUS</u> <u>preus</u>	-/-		FALL	Morphological Ac	laptations ¹ (Provide 4	supporting
R	2		///000	data in Rema	ks or on a separate :	sheet)
Total Cov	er: 100%			Problematic Hydr	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum						
1. NONE	()			¹ Indicators of hydric s	oil and wetland hydro	ology must
2						
Total Cov	er: <u>///</u>	127-1		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum _ 0/2 % Cov	er of Biotic Cr	ust_N/A	1	Present? Y	′es No <u>X</u>	
Remarks:					Are 1	
I IPICAL ANTO ITE ORA	SSUNT	o com	MUNT	1 FOR The	is many	

SOIL

	101 4 10
	111
Sampling Doint:	96
Sampling Forth.	10

Profile Desc	ription: (Describe	to the depth	needed to docur	ment the i	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redo	x Features	6				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-10	10YR4/2	100%	~ _				CL	FEW FINE GRAVEL	
10.16	12484/3	100%		~			an		
10.0		10010							
				·					
		· · · · · · · ·							
							1.45 (1.5-1) (1.5-1) (1.5-1)		
	ncentration D=Den	letion RM=F	Reduced Matrix	² Location	P =Por	e Lining R	C=Root Chann	M=Matrix	
Hydric Soil I	Indicators: (Applic	able to all L	RRs, unless other	rwise not	ed.)	o caning, ite	Indicators	for Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy Red	ox (S5)			1 cm M	luck (A9) (LRR C)	
Histic Ep	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)		
Black Hi	stic (A3)		Loamy Muc	ky Minera	l (F1)		Reduced Vertic (F18)		
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent Material (TF2)		
Stratified	l Layers (A5) (LRR (C)	Depleted M	atrix (F3)			Other (Explain in Remarks)		
1 cm Mu	ick (A9) (LRR D)		Redox Dark	Surface (F6)				
Depleted	Below Dark Surface	e (A11)	Depleted D:	ark Surfac	e (F7)				
Thick Da	ark Surface (A12)		Redox Dep	ressions (I	-8)				
Sandy M	lucky Mineral (S1)		Vernal Pool	s (F9)			³ Indicators of	of hydrophytic vegetation and	
Sandy G	Sleyed Matrix (S4)						wetland	hydrology must be present.	
Restrictive I	_ayer (if present):								
Туре:	NONE								
Depth (in:	ches):/A						Hydric Soil I	Present? Yes No _X	
Remarks:	COALIER	source a	BSERNED	- Du	E to	HEA	14 11 4		
	citatine -			10	- 10	MEA		2	
HYDROLO	GY								
Wetland Hyd	drology Indicators:						Second	dary Indicators (2 or more required)	
Primary Indic	ators (any one indic	ator is suffici	ent)					ater Marks (B1) (Riverine)	
0 4	AL_((A))		Calls Causel	(014)			0		

 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) 	 Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Other (Explain in Remarks) 	 Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) 				
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes No	X Depth (inches):					
Water Table Present? Yes No	<u> </u>					
Saturation Present? Yes <u>No</u> (includes capillary fringe)	<u> </u>	Wetland Hydrology Present? Yes No X				
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspec	tions), if available:				
Remarks: - APPEARS TO HAVE SOME OVERLAND FROM IN TITIS						
AREA INTO AD TACE	AREA INTO ADTACENT SUBLE - BUT NO EUIDENCTE					
of PROLONGED SAT	untrior 1 HUNPA	4770N				

Project/Site: LINE 400/401	City/	County: Yo	60	Sampling Date:	114/07
Applicant/Owner: $PG \neq E$			State: CA	Sampling Point:	SPOST
presticators: R. HUP PLESTON, T. ARM	STRONG Sect	ion, Township, Ran	ae: 102 0	IE SEC	7
andform (hillslope terrace etc.): 4/146.540PA	E Loc	al relief (concave, c		E Stope	(%): 2-5-
	Lat: 38°4	14'10.109"	Long: 121" 54'	27.685 Datum	1415 84
Subregion (LRR):	101 2-1	52	NEA/L elegai	ination:	
Soil Map Unit Name: <u>22227725 01240227</u>	<u></u> ,				
Are climatic / hydrologic conditions on the site typical for	this time of year?	Yes No	(If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology	_ significantly distu	irbed? Are "N	Normal Circumstances"	present? Yes X	No
Are Vegetation, Soil, or Hydrology _ X	_ naturally problen	natic? (If nee	eded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing sa	mpling point lo	cations, transect	s, important fea	tures, etc.
Hydrophytic Vecetation Present? Yes	No X	Is the Sampled	Aroo		
Hydric Soil Present? Yes	No X	within a Wetlan	d? Yes	No X	
Wetland Hydrology Present? Yes	No X	within a weath	un <u>nes </u>		
Remarks: - WEAKLY EXPRESSED	SWALE	- FLOWS	scutted in	to MORE	
DEFINED EROSIONAZ SCO	JE CHAN	NEL			
-BELOW AVERAGE SEASON	AC RAINE	tel			
	Absolute Dr	minant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Use scientific names.)	% Cover Sp	ecies? Status	Number of Dominant:	Species	
1. NONE			That Are OBL, FACW	, or FAC:	(A)
2			Total Number of Dom	inant	
3			Species Across All St	rata: <u>Z</u>	(B)
4			Percent of Dominant !	Species	a,
Sepling/Shrub Stratum	ver: <u>N/4</u>		That Are OBL, FACW	or FAC:	5 (A/B)
1 NONE			Prevalence Index wo	vrksheet:	
2			Total % Cover of:	Multiply	by:
3.			OBL species	x 1 =	
4			FACW species	5 x2= /C	2
5			FAC species Z	5 x3= 75	5
Total Co	over: <u>N/A</u>		FACU species	$\frac{0}{100} \times 4 = -\frac{4}{3}$	
Herb Stratum	a	~ N/.	UPL species	$x_{5} = 32$	<u>~</u>
1. <u>EFOULOM BOLETS</u>	25	× FAC*	Column Totals:	00 (A) <u>42</u>	<u> </u>
3 RROMUS HORDFACEUS	10	FAUL-	Prevalence Inde	x = B/A = U.Z	5
A AVENA BARBATA	10	NL	Hydrophytic Vegetat	ion Indicators:	_
5. RUMEX CRISPUS	5	FACW-	Dominance Test	is >50%	
6. VULPIA MYUROS		FACU	Prevalence Index	is ≤3.0 ¹	
7			Morphological Ad	aptations' (Provide s	upporting
В			Data in Remar	ks or on a separate s	neet) Evolution
Total Co	over: 100/2			ophytic vegetation. (=xpiain)
Woody Vine Stratum			Indicators of hydric s	oil and wetland hydro	logy much
1. <u>Norre</u>			be present.	and woband hydro	say must
2 Tatal C	Wer N/A		Hydrophytic		
W Pare Ground in Hern Stratum	over of Biotic Crusi	N/4	Vegetation Present?	ies No X	-
Percentaria in hero ottataria // O				110	
RUDERAL SPECIES	AND GRA	SSES TH	ROUGHOUT	77+15	
ARFA - NO DISTINCT	HANGE	IN PL	ANT COM	YUNITY	
EPAN ADTALENT	ARFA				
proving provincial 1	1111				

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Je Juli	Matrix		Red	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-1	7.5 YR 72	98%t	57F4/6	1-2%	۷	PC	SCL	VERY GRAVELLY
1-12	7.57/23/2	100%					SEL	VERY GRAVELLY
Type: C=C lydric Soil Histosol Histic E Black H	ioncentration, D=Dep Indicators: (Applic I (A1) pipedon (A2) istic (A3)	letion, RM= able to all I	Reduced Matrix. RRs, unless othe Sandy Red Stripped M Loamy Mu	² Location: arwise note dox (S5) latrix (S6) cky Mineral	PL=Pon d.) (F1)	e Lining, F	C=Roct Chann Indicators 1 cm k 2 cm k Reduc	nel, M=Matrix. for Problematic Hydric Soils ³ : Auck (A9) (LRR C) Auck (A10) (LRR B) ed Vertic (F18)
Hydroge Stratifie f cm Mi Depiete Thick D Sandy M Sandy (Sandy (en Sullide (A4) c Layers (A5) (LRR C uck (A9) (LRR D) d Below Dark Surface lark Surface (A12) Vucky Mineral (S1) Gleyed Matrix (S4)	C) e (A11)	Depleted M Redox Dar Depleted D Redox Dep Vemal Poo	yen Matrix (Matrix (F3) x Surface (F Dark Surface pressions (F Dis (F9)	r∠) =6) ⊧ (F7) 8)			arent Material (TF2) (Explain in Remarks) of hydrophytic vegetation and hydrology must be present.
Restrictive Type:	Layer (if present): NACE						Hydric Soil	Present? Yes No X

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) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Ocor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livir Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed S Ibundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Water-Stained Leaves (B9)	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Gincludes capillary fringe) Yes No X Depth (inches):	Wetland Hydrology Present? Yes Nor
Describe Recorced Data (stream gauge, monitoring well, aerial photos, previous inspect	ions) if available:
Remarks: - EVIDENCE OF OVERAND FLOW NO INPICATION OF PROLONGED SAT - NO BLUE GIVE ON TOPO MAP	IN THIS AREA, BUT URATION OR INUNPATION

Project/Site: 400/401		City	/County:	Y01	.υ		_ Sampling	Date: _	415
Applicant/Owner: <u>P63</u>					State:	CA	_ Sampling	Point:	SPO
Investigator(s): R. HUDDLESTON, T.	ARMSTR	c MG-Sec	ction, Tow	nship, Rang	e:0_	S 01	ES	EC7	-
Landform (hillslope, terrace, etc.): 141LLSL	OPE	Lo	cal relief (concave, co	nvex, none):	NON	E	Slop	e (%):4
Subregion (LRR):C		Lat: <u>38</u> °	44'10	2,050 "	Long: <u> 2 </u>	° 54	07.99	2 Datur	$m: \mathcal{W}_{\ell}$
Soil Map Unit Name: CORNING GRU	WELLY	LOAM	2-	15%	N	W classifi	ication:	NONE	<u> </u>
Are climatic / hydrologic conditions on the site typ	oical for this ti	me of year?	Yes	No≯	(If no, e	xplain in	Remarks.)		
Are Vegetation Soil or Hydrolog	ysigr	ificantly dis	turbed?	Are "N	ormal Circun	nstances	present?	Yes $\boldsymbol{\chi}$	No
Are Vegetation Soli or Hydrolog	y 🗙 natu	urally proble	matic?	(If nee	ded, explain	any answ	ers in Rem	arks.)	
	ito man ch	owing or	moline	n noint lo	nations t	ancost	c impor	tant for	
SUMMARY OF FINDINGS - Attach s	ite map si	lowing se	ampinié	point io	Lations, u	ansect	s, impor		atures
Hydrophytic Vegetation Present? Yes	No_	X	Is the	Sampled A	rea				
Hydric Soil Present? Yes	No	×	withi	n a Wetland	?	Yes	No	×	
Wetland Hydrology Present? Yes	No	<u>×</u>							
Remarks: EROSIONAL / UPL	AND S.	WALE	- /	SO EU	DENC	E O	EWE	TLA	ND
ITAPROLOGY						,			
REICH AVERAGE	RAINF	ALL	to D	ATTE					
VECETATION	<i>jcjnji</i>	//	/	1112					
		Absolute []	ominant	Indicator	Dominance	Test wo	ksheet:		
Tree Stratum (Use scientific names.)	2	% Cover S	Species?	Status	Number of [Dominant	Species		
1. NONE					That Are OB	BL, FACW	or FAC:	/	
2					Total Numb	er of Dom	inant		
3					Species Acr	oss All S:	rata:	_ 2	
۷					Percent of D	Dominant	Species		~~
Carling/Charle Stratum	Total Cover: _	NA			That Are Of	BL, FACW	or FAC:	50	2
1 MANE					Prevalence	Index w	orksheet:		
2					Total %	Cover of	:	Multiph	y by:
3.					OBL specie	s	x	1 =	
4					FACW spec	ies	x	2 =	12 12
5					FAC specie	s <u>Z</u>	<u>o</u> x	3 =	50
	Total Cover:	MA			FACU spec	ies <u>2</u>	<u>×</u> ×	4 =	00
Herb Stratum		30	5	1	UPL specie	s	10 ×	5= 2	00
1. THURPH ISALDATIA	PAIM	20	×	EAr*	Column Tot	als:	25 (A) _3	60
2 BRANUS HARDEACEN	'S	15	/	FACU-	Preva	lence Inde	ex = B/A =	4.	2
MEDICALD POUTMON	EPHA	10		FACU-	Hydrophyt	ic Vegeta	tion Indica	tors:	
5 ERODIUM BOTRYS	· · · · ·	10		NL	Domina	ance Test	is >50%		
6.					Prevale	ence Inde	xis ≤3.0 [*]		
7.					Morpho	ologicai A	daptations'	(Provide	suppor
8					data	i in Rema	rks or on a	separate	sneet)
	Total Cover:	85%			Proo!er	natic Hyd	ropnytic Ve	getation	(Expla
Woody Vine Stratum		ж.			Indicators	ofhudda	oil and we	land herd	rola
1. NONE				(be present.	or rryune s		лано пуб	lology (
2	T-1-1 0	~//			Hudroshid	ic			
	i otal Cover:	MA		Λ	Vegetation	ic I			
	04 Cover	of Diatic Co	st NI	4	Present?		Yes	No	X
% Bare Ground in Herb Stratum 5/6	- so cover			·					
% Bare Ground in Herb Stratum / S / C Remarks: S / M / / A / R	+ DJACI	ENT	CRAS	schut) - CP	ARSE	BINI	WER	= = D

SOIL

Profile Description: (Describe to the dep	th needed to docum	rent the indicator	or contract	110 00 301100	of maloalo, of
(inches) Color (moist) %	Color (moist)	% Type	Loc ²	Texture	Remarks
0-3 104R4/2 100%				CL	VERT GRAVELLT
3-16 107/23/2 100%				C	VERT BRAVELLY
Type: C=Concentration, D=Depletion, RM	=Reduced Matrix.	"Location: PL=Por	e Lining, Ro	C=Root Chan	nel, M=Matrix.
Hydric Son indicators. (Applicable to an	Creat Oada	wise noted.)		monuators	Tor Problematic Hydric Solis :
Histosol (A1)	Sandy Redo	X (SS)		1 cm	Muck (A9) (LRR C)
Plack Histic (A3)		Inx (SO) Niceral (E1)		2 cm 1	MUCK (ATU) (LKR B)
Black Histic (A3)	Loamy Glev	ved Mistrix (52)		Recut	Parant Material (TER)
Stratified Lawers (A5) (LBR C)	Depleted Ma	atrix (F3)		Neu P	(Explain in Remarke)
1 cm Mick (A9) (LRR D)	Redox Dark	Surface (F6)			
Depleted Below Dark Surface (A11)	Depleted Da	ark Surface (F7)			
Thick Dark Surface (A12)	Redox Depr	essions (F8)			
Sandy Mucky Migeral (S1)	Vernal Pool	s (E9)		Indicators	ot hydrochytic vegetation and
Sandy Gleved Matrix (S4)		- (/		wetland	i hydrology must be cresent
Restrictive Layer (if present):					,
Type: NONE					
·//=·					
Depth (inches): <u>>16</u> Remarks: IN TTHIS AREA.	LY SALS	- NO E	EUIDE	Hydric Soil	Present? Yes No X
Depth (inches): <u>>76</u> Remarks: UENT GRAVED IN TTHIS AREA.	HY SALS	- NO E	EUDE	Hydric Soil	Present? Yes No X
Depth (inches): <u>>76</u> Remarks: <i>UEM GRAVED</i> <i>IN TTHIS AREA</i> . HYDROLOGY Wetland Hydrology Indicators:	nt sals	- NO E	EUI DE	Hydric Soil	Present? Yes No X
Depth (inches): <u>>76</u> Remarks: <i>UEM GRAUED</i> <i>IM THIS AREA</i> . HYDROLOGY Wetland Hydrology Indicators: Primary indicators (any one indicator is suf	ficient)	- NO E	EU DE	Hydric Soil	Present? Yes No X
Depth (inches): <u>>76</u> Remarks: <i>UEM GRAUED</i> <i>IM THIS AREA</i> . HYDROLOGY Wetland Hydrology Indicators: Primary indicators (any one indicator is suff Surface Water (A1)	ficient)	- NO E	EU DE	Hydric Soil	Present? Yes <u>No X</u>
Depth (inches): Remarks: 	ficient)	(B11)	EN DE	Hydric Soil	Present? Yes <u>No X</u> OF <u>HYPFIC</u> Salc Indery indicators (2 or more required) Vater Marks (B1) (Riverine) Sedimen: Deposits (B2) (Riverine)
Depth (inches): <u>>76</u> Remarks: <i>UEM GRAUED</i> <i>IM TTHTS AREA</i> . HYDROLOGY Wetland Hydrology Indicators: <u>Primary indicators (any one indicator is suff</u> Surface Water (A1) High Water Table (A2) 20 Depth (inches): <u>>76</u>	ficient) Sal: Crust Biotic Crust	(B11) (B12)	EN DE	Hydric Soil	I Present? Yes <u>No X</u> OF <u>HYPERC</u> Salc Indary indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches): <u>>76</u> Remarks: <i>UEM GRAUED</i> <i>IN TTHIS AREA</i> . IYDROLOGY Wetland Hydrology Indicators: <u>Primary Indicators (any one indicator is suff</u> Surface Water (A1) High Water Table (A2) Saturation (A3)	ficient) Salt Crust Slotic Crust Aquatic Inv	(B11) (B12) vertebrates (B13)		Hydric Soil	Present? Yes <u>No X</u> OF <u>MADETC</u> Salc Indary indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
Depth (inches): Remarks: // TTHIS AREA IN TTHIS AREA IYDROLOGY Wetland Hydrology Indicators: Primary indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (NonriverIne)	ficient) Salt Crust Siotic Crust Aquatic Inv Hydrogen ;	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1)	EU DE	Hydric Soil	Present? Yes No OF Image: Participation Source Image: Participation Source Source No Xet Source Source No Xet Source Source Source No Xet Source Source </td
Depth (inches): Remarks: 	ficient) Sal: Crust Sal: Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R	(B11) (B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along		Hydric Soil	Present? Yes No OF If IPPELC Sall Ordary indicators (2 or more required) Sall Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orifi Deposits (B3) (Riverine) Orifi Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) No Xet (C7)
Depth (inches): Remarks: 	ficient) Sal: Crust Sal: Crust Sal: Crust Aquatic Inv Aquatic Inv	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Shizospheres along of Reduced Iron (C		Hydric Soil	Present? Yes No OF If IPPELC Solid Odary indicators (2 or more required) Solid Vater Marks (B1) (Riverine) Solidiment Deposits (B2) (Riverine) Orifi Deposits (B3) (Riverine) Orifi Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Nh Muck Surface (C7) Orayfish Burrows (C8)
Depth (inches): Remarks: 	ficient) Salt Crust Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recert Iro	(B11) (B11) (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C n Reduction in Ploy	Living Rool	Hydric Soil Second	Present? Yes <u>No X</u> OF <u>HIPFIC</u> Solic Datary indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orifi Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Inin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Depth (inches): Remarks: 	ficient) Salt Crust Salt Crust Salt Crust Aquatic Inv Aquatic Inv Aydrogen Oxidized R Presence of Recent Iroo B7)Other (Exp	(B11) (B11) (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C n Reduction in Ploy plain in Remarks)	Living Rool 4) wed Soils (C	Hydric Soil Second	Present? Yes <u>No X</u> OF <u>HIPFIC</u> Soll Data Vindicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orifi Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Inin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Depth (inches): Remarks: 	ficient) Salt Crust Salt Crust Biotic Crust Aquatic Inv Aquatic Inv Aquatic Inv Oxidized R Presence of Recent Iro 37) Other (Exp	(B11) (B11) (E12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C- ń Reduction in Ploy plain in Remarks)	Evi DE	Hydric Soil Second <	I Present? Yes <u>No X</u> OF <u>MUDPETC</u> Salc Adary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): Remarks: 	ficient) Salt Crust Salt Crust Siotic Crus Aquatic Inv Yydrogen Oxidized R Presence of Recent Iron 37)Other (Exp	(B11) (B11) (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C n Reduced Iron (C n Reduced Iron (C n Reduced Iron (C n Reduced Iron (C	Living Rool	Hydric Soil	Present? Yes <u>No X</u> A Present? Yes <u>No X</u> A Present? Self Note: Marks (B1) (Riverine) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (C2) Inin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): Remarks: 	ficient) Salt Crust Salt Crust Salt Crust Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron B7) Other (Exp No X Depth (into	(B11) (B11) (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C n Reduced Iron (C n Reduction in Ploy plain in Remarks)	Living Rool	Hydric Soil	Present? Yes <u>No X</u> A Present? Yes <u>No X</u> A Present? Yes <u>No X</u> A Present? Self Note: Self Note: Marks (B1) (Riverine) Sediment: Deposits (B2) (Riverine) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (B10) Ordinage Patterns (C2) Inin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): Remarks: 	ficient) Sal: Crust Sal: Crust Siotic Crust Aquatic Inv Yydrogen Oxidized R Presence of Recent Iron 87)Other (Exp NoDepth (inc NoDepth (inc	(B11) (B11) (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C n Reduced	Living Rool 4) wed Soils (C	Hydric Soil	Present? Yes <u>No X</u> A Present? Yes <u>No X</u> A Present? Self No X A Present? Self No X A Present? Self No X A Present? Self No X A Present? No X A Present? No X A Present A Present A
Depth (inches): >/6 Remarks: UEM GRAUED IM TTHS AREA. IVDROLOGY Wetland Hydrology Indicators: Primary indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inuncation Visible on Aerial Imagery (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present?	ficient) Salt Crust Salt Crust Salt Crust Aquatic Inv Aquatic Inv	(B11) (B11) (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C n Reduced Iron (C n Reduced Iron (C n Reduction in Ploy plain in Remarks) ches): 	Living Rool 4) wed Soils (C	Hydric Soil	Present? Yes No CF If PPFIC Salk Indary indicators (2 or more required) Salk Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Original Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine)
Depth (inches): >/6 Remarks: UEM GRAUED IM TTHIS AREA. IVDROLOGY Wetland Hydrology Indicators: Primary indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inuncation Visible on Aerial Imagery (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, model)	ficient) Salt Crust Salt Crust Biotic Crust Aquatic Inv Aquatic Inv Hydrogen 1 Oxidized R Presence 0 Recert Iro Recert Iro 87) Other (Exp No Depth (ind No Depth (ind No Depth (ind No Depth (ind No Depth (ind No Depth (ind No Depth (ind	(B11) (B11) (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (C in Reduction in Ploy plain in Remarks) ches): ches): ches): ches): ches): ches): ches):	Ecri DPE	Hydric Soil Second <	Present? YesNo X CF ////////////////////////////////////
Depth (inches):	ficient) Salt Crust Salt Crust Salt Crust Salt Crust Aquatic Inv Aquatic Inv	(B11) (B11) (E12) vertebrates (B13) Sulfide Odor (C1) Sulfide Odo	Ecripe Living Rool (0) ved Soils (0) wethat pections), i	Hydric Soil Second <	Present? Yes No CF JHTPJETC Sall Cafe JHTPJETC Sall Vater Marks (B1) (Riverine) Salin Vater Deposits (B3) (Riverine) Salinage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (D5) Y Present? Yes Y Present? Yes No X
Depth (inches): >/6 Remarks: UEM GRAUED IM THIS AREA. IVDROLOGY Wetland Hydrology Indicators: Primary indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inuncation Visible on Aerial Imagery (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Gincludes capillary fringe) Describe Recorded Data (stream gauge, m Remarks: PartEnTAL, FE To StoRM EUGENTS	ficient) Salt Crust Salt Crust Salt Crust Salt Crust Aquatic Inv Aquatic Inv	(B11) (B11) (E12) vertebrates (B13) Sulfide Odor (C1) Sulfide Odor	Living Rool i) ved Soils (C 	Hydric Soil Second	Present? Yes No CF JHTPJEL Salk Indary indicators (2 or more required) Vater Marks (B1) (Riverine) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orifi Deposits (B3) (Riverine) Orifi Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Inin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Y Present? Yes No X MC MC W MESPONSE Mo X MC MC

	City/C	County: 70	LO	_ Sampling Date:	4/5/
pplicant/Owner: PGSE			State: <u>CA</u>	_ Sampling Point: _5	P07
nvestigator(s): R. HUNDLESTON, T. ARM.	STRONG Section	on, Township, Ran	ge: 10N 55	OLE SEC	7
andform (hillslope, terrace, etc.):	Loca	I relief (concave, c	onvex, none):or	Stope	(%): <u>2-</u>
Subregion (LRR):	Lat: <u>38° 4</u>	4'10.808'	Long: 121 54	47.999 Datum:	WES 2
oil Map Unit Name: CORNING GRAVEL	LY LOAM	2-15%	NWI classifi	cation: NONE	-
are climatic / hydrologic conditions on the site typical for the	his time of year? Y	(es No	≻ (If no, explain in	Remarks.)	
are Venetation Soil or Hydrology	significantly distur	rbed? Are "	Normal Circumstances'	present? Yes 🗡	No
are Venetation Soil or Hydrology	naturally problem	atic? (If ne	eded, explain any answ	ers in Remarks.)	
	n chowing can	nnling noint k	cations transact	c important fool	
SUMMARY OF FINDINGS - Attach site ma	5 Showing San		ocations, transect	s, important real	ures, e
Hydrophytic Vegetation Present? Yes X	No	Is the Sampled	Area		
Hydric Soil Present? Yes	No X	within a Wetlan	nd? Yes	No X	
Wetland Hydrology Present? Yes	No X				
Remarks: - WEAKLY EXPRESS	ED UPL	AND SWA	LLE - POTE	NTIAL EPH	EMER
FLOWS BUT NO WETTAND	+ PRO	LOCT EL	IDENT		
- BELLIN AVERAGE SEA	SONAC	RAINFAL	4		
VEGETATION					
VEGENATION	Absolute Dor	minant Indicator	Dominance Test wo	ksheet:	-
Tree Stratum (Use scientific names.)	% Cover Spe	ecies? Status	Number of Dominant	Species	
1. NONE			That Are OBL, FACW	, or FAC:	(A
2			Total Number of Dom	inant	
3			Species Across All St	rata:	(B
4			Percent of Dominant	Species	ود
Total Co	ver: <u>~/ A</u>		That Are OBL, FACW	, or FAC: 100/2	(A
1 NONE			Prevalence Index w	orksheet:	-
2.			Total % Cover of	Multiply I	QΥ:
3			OBL species	x 1 =	
4			FACW species	x 2 =	
			FAC species	x 3 =	
5			FACILispecies		
5	ver: <u>N/A</u>		17/00 3900/03	X 4	
5 Total Co	Ner: <u>N/A</u>	× FAC*	UPL species	x 4 = x 5 =	
5 Total Co <u>Herb Stratum</u> 1. <u>LOLIUM MULTIFEORUM</u> 2. <u>MEDICACO</u> POLYMORPHA	wer: <u>N/A</u> <u>60 /2</u> 10	<u>× </u>	UPL species Column Totals:	x 4 = x 5 = (A)	(
5 Total Co <u>Herb Stratum</u> 1. <u>LOLIUM MULTIFEOREUM</u> 2. <u>MENICABO POUTMORPHA</u> 3. <u>BROMUS HERPFACEUS</u>	ner: <u>N/A</u> 60 <u>%</u> 110 10	<u>× </u>	UPL species Column Totals: Prevalence Inde	x 4 = x 5 = (A) ex = B/A =	(
5 <u>Herb Stratum</u> 1. <u>LOLIUM MULTIFEORUM</u> 2. <u>MENICABO POUY MORPH</u> 3. <u>BROMUS HERPEACEUS</u> 4. RUMEX: CRISPUS	Ner: <u>N/A</u> <u>60,2</u> <u>1</u> <u>10</u> <u>5</u>	× FAC* FACU- FACU- FACW-	UPL species Column Totals: Prevalence Inde	x 4 = x 5 = (A) ex = B/A = tion Indicators:	(
5 Herb Stratum 1. LOLIUM MULTIFEORUM 2. <u>MERICABO POUTMORPHA</u> 3. <u>BROMUS HORPFACEUS</u> 4. <u>RUMEY</u> CRISPUS 5. <u>UULPIA MTURAS</u>	Ner: <u>N/A</u> 10 10 5	× FAC* FACU- FACU- FACW- FACU	UPL species Column Totals: Prevalence Inde Hydrophylic Vegeta	x 4 = x 5 = (A) ex = B/A = tion Indicators: is >50%	(
5 Herb Stratum 1. LOLIUM MULTIFEORUM 2. MENICASO POURMORPHA 3. BROMUS HORPFACEUS 4. RUMER CRISPUS 5. <u>UULPIA MTURES</u> 6. VICIA UILLOSA	Ner: <u>N/A</u> <u>60,2</u> <u>10</u> <u>10</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u>	× FAC* FACU- FACU- FACW- FACW- FACW- PL-	UPL species Column Totals: Prevalence Inde Hydrophytic Vegeta & Dominance Test Prevalence Index		(
5 Herb Stratum 1. LOLIUM MULTIFEORUM 2. MENICAGO POURMORPHY 3. BROMUS HORPFACEUS 4. RUMEX CRISPUS 5. <u>UULPIA MTURES</u> 6. VICIA UILLOSA 7. HORPFUM MARINUM	Ner: <u>N/A</u> <u>60,2</u> <u>10</u> <u>5</u> 5 <u>5</u> <u>5</u> <u>5</u>	<u>× </u>	UPL species Column Totals: Prevalence Inde Hydrophytic Vegeta X Dominance Test Prevalence Index Orephological Au	x 4 = $x 5 = $ (A) (A) $x = B/A = $ (A) $x = B/A = $ (A) $(A$	(
5 Herb Stratum 1. LOLIUM MULTIFEORUM 2. <u>MERICABO POUR MORPHAR</u> 3. <u>BROMUS HORPFACEUS</u> 4. <u>RUMEX: CRISPUS</u> 5. <u>UULPIA MARINUM</u> 6. <u>VICIA UILLOSA</u> 7. <u>HORPFUM MARINUM</u> 8. <u>AVENA BARBATA</u>	Ner: <u>N/A</u> <u>60%</u> <u>10</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u>	× FAC* FACU- FACU- FACW- FACW- FACH NL NL	UPL species Column Totals: Prevalence Inde Hydrophytic Vegeta Dominance Test Prevalence Index Morphological Au data in Rema	$x 4 = \underline{\qquad} x 5 = \underline{\qquad} x 5 = \underline{\qquad} (A)$ $ex = B/A = \underline{\qquad}$ $tion Indicators:$ $is > 50\%$ $(is \le 3.0^{1})$ $daptations' (Provide so row a separate so row a se$	upporting heet)
5 Herb Stratum 1. LOLIUM MULTIFEORUM 2. MENICAGO POURMORPHA 3. BROMUS HERPFACEUS 4. RUMEY CRISPUS 5. <u>UULPIA MAURES</u> 6. UICIA UILLOSA 7. HERPEUM MARINUM 8. AVENA BARBATA TOTAL CON	Ner: <u>N/A</u> <u>60,2</u> <u>10</u> <u>10</u> <u>5</u> <u>5</u> <u>5</u> <u>2</u> wer: <u>90,2</u> t	× FAC* FACU- FACU- FACW- FACW- FACU- NL FACC NL	UPL species Column Totals: Prevalence Inde Hydrophytic Vegeta Dominance Test Prevalence Index Prevalence Index data in Rema Problematic Hyd	x 4 = $x 5 = $ (A)	upporting heet) Explain)
5 Herb Stratum 1. LOLIUM MULTIFEORUM 2. MENICAGO POUR MORPHY 3. BROMUS HORPFACEUS 4. RUMEX CRISPUS 5. <u>UULPIA MARIPUS</u> 6. UICIA UILLOSA 7. <u>HORPFUM MARINUM</u> 8. <u>AVENA BARBATA</u> Total CO	Ner: <u>N/A</u> <u>60,2</u> <u>10</u> <u>10</u> <u>5</u> <u>5</u> <u>5</u> <u>2</u> Ner: <u>90,2</u> f	K FAC* FACU- FACU- FACW FACW AL FACU NL NL	UPL species UPL species Prevalence Inde Hydrophytic Vegeta Dominance Test Prevalence Index Morphological Av data in Rema Problematic Hyd	x 4 = $x 5 = $ (A)	upporting heet) Explain)
5 Herb Stratum 1. LOLIUM MULTIFICORUM 2. <u>MERICASO</u> POUR MORPHAN 3. <u>BROMUS</u> HORPFACEUS 4. <u>RUMEX</u> CRISPUS 5. <u>UULPIA MATURES</u> 6. <u>VICIA</u> UILLOSA 7. <u>HORPFUM</u> MARINUM 8. <u>AVENA BARBATA</u> Total CO <u>Woody Vine Stratum</u> 1. <u>NONE</u>	Ner: <u>N/A</u> <u>60%</u> <u>1</u> <u>10</u> <u>5</u> <u>5</u> <u>5</u> <u>5</u> <u>7</u> <u>7</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u>	E FAC* FACU- FACU- FACW- FACW FACH NL NL	UPL species UPL species Prevalence Index Hydrophytic Vegeta Dominance Test Prevalence Index Dominance Test Prevalence Index Action Rema Problematic Hyd ¹ Indicators of hydric s be present.	x 4 = x 5 = (A) ex = B/A = tion Indicators: is >50% c is $\leq 3.0^{1}$ daptations ¹ (Provide so rephytic Vegetation ¹ (i soil and wetland hydro	upporting heet) Explain)
5 Herb Stratum 1. LOLIUM MULTIFEORUM 2. MEDICAGO POUR MORPHA 3. BROMUS HORPFACEUS 4. RUMEY CRISPUS 5. <u>UULPIA MAURES</u> 6. UICIA UILLOSA 7. HORPFUM MARINUM 8. <u>AVENA BARBATA</u> Total CO Woody Vine Stratum 1. <u>NONE</u> 2	$\frac{N/A}{10} = \frac{60.2}{10} = \frac{10}{10} = \frac{10}{10} = \frac{10}{10} = \frac{5}{10} = \frac$	× FAC* FACU- FACU- FACW- FACW- FACU- NL FACO- NL	UPL species UPL species Prevalence Inde Hydrophytic Vegeta Dominance Test Prevalence Index Prevalence Index Morphological Av data in Rema Problematic Hyd 'Indicators of hydric s be present.	x 4 = $x 5 = $ (A)	upporting heet) Explain)
5 Herb Stratum 1. LOLIUM MULTIFEORUM 2. MENICAGO POUR MORPHY 3. BROMUS HERPFACEUS 4. RUMEX CRISPUS 5. UULPIA MATURES 6. UICIA UILLOSA 7. HORPEUM MARINUM 8. AVENA BARBATA Total Co Woody Vine Stratum 1. NONE 2 Total Co	Ner: $\frac{N/A}{10}$ $\frac{10}{5}$ $\frac{5}{5}$ $\frac{5}{5}$ Ner: $\frac{90/2}{5}$ $\frac{7}{5}$	EAC FACU- FACU- FACU- FACU- FACU- FACU- FACU- ACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU- FACU-	UPL species UPL species Prevalence Inde Hydrophytic Vegeta Dominance Test Prevalence Index Prevalence Index Morphological Av data in Rema Problematic Hyd ¹ Indicators of hydric s be present. Hydrophytic Vegetation	$x 4 = $ $x 5 = $ (A) $ex = B/A = $ (a) $is > 50\%$ $(is \le 3.0^{1})$ $(b) = 10^{1} (Provide solutions) (Provide solutions)$ $(b) = 10^{1} (Provide solution) (Pro$	upporting heet) Explain)

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Depth	Matrix		Red	ox Features	-		-	
(inches) Color	(moist)		Color (moist)	%	Type	Loc*	Texture	Remarks
0-2 107P	24/2	98%t	107724/6	22%	6	RC	SCL	GRAVELL 7
2-16 1071	R4/2	99%	107/4/6	1%	C	M	C	GRAVENT
		·						
'Type: C=Concentration Hydric Soil Indicators	on, D=Deple s: (Applica	etion, RM= able to all L	Reduced Matrix. RRs. unless othe	*Location: erwise note	: PL=Pc ed.)	re Lining, F	C=Roct Chan Indicators	nel, M=Matrix.
History (A1)	5. (p.p		Sandy Rev	day (85)			1	Auch (AQ) (1 PP C)
Histic Eninedon (A	12)		Stringert M	datrix (S6)			2 cm M	Auck (AS) (LRR C)
Black Histic (A3)	ν <i>Σ</i> }		Loamy Mu	cky Mineral	(E1)		Reduc	red Vertic (E18)
Hydrogen Sulfide i	(A4)		Loamy Gle	eved Matrix	(F2)		Red P	arent Material (TE2)
Stratified Lavers (/	A5) (LRR C	:)	Depleted M	Matrix (F3)	•		Other	(Explain in Remarks)
1 cm Muck (A9) (L	RRD)		Redox Dat	rk Surface (F6)			
Depleted Below D	ark Surface	(A11)	Depleted [Dark Surface	e (F7)			
Thick Dark Surface	e (A12)		Redox De	pressions (F	-8)			
Sandy Mucky Min	eral (S1)		Vernal Poo	ols (F9)			³ n dicators	of hydrophytic vegetation and
Sandy Gleyed Mat	trix (S4)						wetland	hydrology must be present.
Restrictive Layer (if p	present):							
Туре:	ICNE							
Depth (inches):	714							
BUT LES.	Y GRAN	NELLY TN Z.	Soils, s So - Dore.	SCALE S NOT	Cef	BBLE GET 1	Hydric Soil - Som	Present? Yes No X E REPOX PRESENT SCIL CRITERIA
Remarks: UER	Y GRAN	VELYT	50125, 5 % - DOF.	SCRIE S NOT	Cefe M	BBLE GET 1	Hydric Soil	Present? Yes No <u>X</u> E REPOX PRESENT SCIL CRITERIA
Remarks: BUT LES IYDROLOGY Wetland Hydrology Ir	S TTA	<i>v EL</i> 7 tn Z.	50125, 5 % - pore.	SCALE S NOT	Ccf.	3.31E 5ET 1.	Hydric Soil	Present? Yes <u>No X</u> <i>E REPOX PRESENT</i> <i>Sell CRITERIA</i> Mary Indicators (2 or more required)
Remarks: <i>VEI</i> <i>BUT VES</i> IYDROLOGY Wetland Hydrology In Primary Indicators (and	Y GRAU S 779 A	<i>レ モレ</i> キ ク チャレ こ、		Scrife S puot	Cef.	381E 597 1	Hydric Soil - SCH. HYDRIC <u>Secor</u>	Present? Yes <u>No X</u> <i>E REPOX PRESENT</i> <i>Sert CRITERIA</i> Ndary Indicators (2 or more required) Valer Marks (81) (Riverine)
Remarks: <i>VEP</i> <i>But VES</i> IYDROLOGY Wetland Hydrology Ir <u>Primary Indicators (an</u> Surface Water (2)	Y GRAN	ν <i>Ει</i> κγ τη Ζ.		ScriE S NOT	Ccf.	381E 5997 1.	Hydric Soil	Present? Yes <u>No X</u> <i>E REPOX PRESENT</i> <i>SCIL CRITERIA</i> <u>Idary Indicators (2 or more required)</u> Vater Marks (B1) (Riverine)
Remarks: BUT LES RYDROLOGY Wetland Hydrology Ir Primary Indicators (and Surface Water (Af Hick Water Table	Y GRAN	VELY7	 <i>SortLS,</i> <i>SortLS,</i> <i>Pore_</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i> <i>Sort</i>	Scart E S puor St (B11)	CC/2 - M.	3BLE 5ET 1.	Hydric Soil - SCH HYDRIC Secon V	Present? Yes <u>No X</u> <i>E REPOX PEESENT</i> <i>Sert CRITERIA</i> Indary Indicators (2 or more required) Water Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) red Deposits (B2) (Riverine)
Remarks: BUT LES RYDROLOGY Wetland Hydrology Ir Primary Indicators (and Surface Water (Af High Water Table Sotuming (A2)	Y GRAM S TTHA ndicators: y one indica 1) (A2)	VELLY TN Z.	 <i>SortLS,</i> <i>SortLS,</i> <i>Pore</i> 	Scart E S prot	CC/2 - /4/	3.BLE 5.ET 1.	Hydric Soil - S CM - S CM - S - S - V - S - S - S - S	Present? Yes <u>No X</u> <i>E REPOK PEESENT</i> <i>Sell CRITERIA</i> Indary Indicators (2 or more required) Water Marks (B1) (RiverIne) Rediment Deposits (B2) (RiverIne) writ Deposits (B3) (RiverIne)
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Remarks: ISUT LES ISUT LES IYDROLOGY Wetland Hydrology Ir Primary Indicators (and Surface Water (Ar) High Water Table Saturation (A3) Water Marks (B1) Seciment Deposit Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Les Field Observations: Surface Water Present Water Table Present? Saturation Present? (Includes capillary fring Describe Recorded Da Remarks: TTHIS FLCCU IN	rdicators: romain constructions romain con	v ELA 7 + 2 Z. ator is suffic ne) nriverine) ine) magery (37 es h es h gauge, mo EA M	Sort S, S Sort S, S Sort S, S S Sort Crus Biotic Crus Biotic Cru Aquatic / Hydroger Oxidized Presence Recent Ir Other (E) No X Depth (i No X D	Scrut E S ruor st (B11) ust (B12) nvertebrate: n Sulfide Oc Rhizospher e of Reduce ron Reduction xplain in Ref nches): nches): I photos, pro- Stoppman Stoppman Control (Control)	s (B13) dor (C1) res along d Iron (C on in Elo marks) evious in evious in EP/H	g Living Roc (24) wed Soils (wed Soils (weth spections), femter ye weth	Hydric Soil - 5 CM -	Present? Yes No _X E REPOX PRESENT SCIL CRITERIA indary Indicators (2 or more required) Vater Marks (B1) (Riverine) Vater

Project/Site:	LINE 400 1.	401	c	ity/County:	_ Yo	10		_ Sampling Date	: 3/28/0
oplicant/Owner:	PGJE					Stat	e: CA	_ Sampling Poin	t: 7a
avestigator(s):	R. HUDDLEST	UN _	S	Section, Tow	vnship, Rar	nge:	ION	OIE SEC	-6
andform (hillslape	terrace etc.): /+//	LSLOPE	l	Local relief	(concave, d	convex, no	ne): Nor	E S	Slope (%): 0-9
wheeles (IPP):	(Lat: 38	· 44' 11	1.543	Long: /	21054	" 46.921"Da	atum: wose
	SELLORN	UNY Z	-15%	SL	OPE		NWI classi	fication:	NE.
oil Map Unit Name	e:	its husical for this	lime of you	r2 Voc	No	(If o		Pomarke)	
re climatic / hydro	logic conditions on the s	ite typical for this	time of yea		· • • •	(ii ii	o, explain in		×
re Vegetation	, Soil, or Hyd	trology sig	gnificantly c	isturbed?	Are	Normal Cir	cumstances	present? Yes_	<u>~ No</u>
re Vegetation	, Soil, or Hyd	Irology na	iturally prob	plematic?	(If ne	eded, expl	ain any ansv	vers in Remarks.)	
SUMMARY OF	FINDINGS - Atta	ch site map s	howing	sampling	g point le	ocations	, transect	ts, important	features, etc
Hydrophytic Vege Hydric Soil Prese Wetland Hydrolog	atation Present? int? gy Present?	Yes X No Yes X No Yes X No		is the with	e Sampled n a Wetlar	Area nd?	Yes _	No	
Remarks: - Su BLLE C	WALE FEATUR	СЕ - ВЕР 270 МАР	m/c	ULVER	et A	F P	o.Ap	בדארך או	APPEA
EGETATION									
			Absolute	Dominant	Indicator	Domina	nce Test wo	rksheet:	
Tree Stratum (L	Use scientific names.)		% Cover	Species?	Status	Number	of Dominant	Species	7
1. NONE						Inat Are	UBL, FACIN	, UI FAC.	(A)
2			·			Total Nu	mber of Don	ninant	2 (1)
3						opecies	ACTOSS AJI 5	uela	(B)
4		Total Cover:	MA			Percent That Are	of Dominant	Species	00% IA/B
Sapling/Shrub St	Iratum								(///
1. NONE						Prevale	nce Index w	orksheet:	
2			v <u></u>				al % Cover o	<u>: Mul</u>	tiply by:
3						OBL SPE		x1≝	
4			i.			FACIUS	pecies	x2=_	
5		Tatal Cause	JIA			FACILIE		x3=_	
Herb Stratum		Lotal Cover						X4= x5=	
1. 60614	M MULTIFLO	RUM	70%	_ <u>×</u>	FAC*	Column	Totals:	(A)	(B)
2. HORDE	WM MARINUM	55P. GUSSCA	20%	*	FAC				(0)
3. RUME	× crispus		2%		EACW-	Pr	evalence Ind	ex = B/A =	
4. AUEN	A BARBATA		2%		ML	Hydrop	hytic Vegeta	ation Indicators:	
5. LUPII	NUS BICCLOS	2	272		NL	Z Dor	ninance Tesl	is >50%	
6 EROD	TUM CICUTA	1ZIUM	2%		NL	Pre	valence Inde	x is ≤3.0'	
7. GERA	INIUM DISSEL	fum	270		M	Moi	phological A	daptations' (Prov arks of on a separ	ide supporting
8. <u>Con</u>	VOLVILLIS ARI	VENSIS			NL	Pro	blematic Hvo	Irophytic Vegetati	on' (Explain)
Mandul Vine Co	0.110	Total Cover	100%				·····		, p /
1. NONE						¹ Indicate	ors of hydric ent.	soil and wetland h	nydrology must
2		Tatal O	, 1/1			Hydron	bytic		
% Bare Ground	in Herb Stratum	i otal Covel	r of Biotic C	rust M	4	Vegetat	ion ?	Yes_X No	
Pare cround									
Remarks;									
SOIL						Sampling Point: 7a			
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Profile Description: (Describe to the depth ne	eded to docume	ent the i	ndicator	or confirm	the absence	of indicators.)			
Depth Matrix	Redox	Features	- 1	. 2	-				
(inches) Color (moist) % C	olor (moist)	%	Type	Loc	lexture	Remarks			
0-2 107/24/2 98% 5	77916	2/6	C	RC_	- 22	MANY FINE ROOTS			
2-9" 10784/1+ 95% 10	784/4	5%	4	Μ	CL	INCREASED CLAY			
9-16" 107/23/2 98% 10	712314	1%	C	M	CLAT				
10	YR4/4	1%_		M					
					-				
¹ Type: C=Concentration, D=Depletion, RM=Redu	uced Matrix. ²	Location	PL=Por	e Lining, R	C=Root Chan	nel, M=Matrix.			
Hydric Soli Indicators: (Applicable to all LRR	s, unless otherw	vise note	ea.)		indicators	for Problematic Hydric Soils":			
Histosol (A1)	_ Sandy Redox	(S5)			1 cm M	Cuck (A9) (LRR C)			
Histic Epipedon (A2)	_ Stipped Matr	rix (So)	1745		2 cm M	Auck (A10) (LRR B)			
Black Histic (A3)	_ Loamy Mucky	y Matrix	(=1) (E2)		Reduc	ed Vertic (F*8)			
Stratified avers (A5) (LRR C)	V Depleted Mat	riv (E3)	(F2)		Red F	(Explain in Remarka)			
1 cm Muck (A9) (LRR D)	Redox Dark S	Surface (E6)			(Explain in Remarks)			
Depleted Below Dark Surface (A11)	Depleted Dar	k Surfac	e (F7)						
Thick Dark Surface (A12)	Redox Depre	ssions (F	-8)						
Sandy Mucky Mineral (S1)	Verna: Pools	(F9)			³ Indicators	of hydrophytic vegetation and			
Sandy Gleyed Matrix (S4)					wetland	hydrology must be present.			
Restrictive Layer (if present):	14.0								
Type: Non E									
Depth (inches): P/A					Hydric Soil	Present? Yes No			
SOME FINE ARAVEN					and a second second second	STATI COLLE			
IN THIS AREA	, /4 Sto	MS	0 1~	TERM	IXEP	WITH SOILS			
IN THIS AREA	-, 1310	MS	0 1~	TERM	IXEP	WITH SOILS			
HYDROLOGY Wetland Hydrology Indicators:	, /4 Sto	145	o //~	TERM	Secon	with Solds			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)		145	0 /~	TERM	Secon	WITH SOILS Idary Indicators (2 or more required) Fater Marks (B1) (Riverine)			
Image: Market A HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Salt Crust (E	311)	0 //	TERM	<u>Secon</u> W	WITTH SOILS dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)			
Image: Market A HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Salt Crust (E	774-5 (311) (8*2)	o //~	TERM	<u>Secon</u> W S D	MITH SOILS Idary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)			
Image: Contract of the second seco	Salt Crust (E Biotic Crust Aqua*c Inve	744-5 (311) (B*2) ertebrates	s (B13)	TERM	<u>Secon</u> W S D D	MITH SOILS Idary Indicators (2 or more required) (ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)			
Image: Arrise biotress Image: Arrise biotress Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (E Salt Crust (E Biotic Crust Aquatic Inve Hiydrogen S	HLS (B11) (B12) entebrates ulfice Od	s (B13) or (C1)	TERM	<u>Secon</u> W S D D	with Solk S dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)			
Image: Arrive Difference Image: Arrive Difference Image: Arrive Difference Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (E Salt Crust (E Biotic Crust Aqua c Inve Hiydrogen Si Oxidized Rh	HLS (B11) (B12) ertebrates ulfice Od	s (B13) for (C1) es along	TEPM	<u>Secor</u> W S D D D ts (C3) T	with Solk S dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7)			
Image: Source Prime Property Image: Source Prime Prime Prime Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (E Salt Crust (E Biotic Crust Aquatic Inve Hiydrogen St Oxidized Rh Presence of	311) (B12) ertebrates ulfice Od iizospher Reduce	s (B13) or (C1) es along d Iron (C4	Living Rco	<u>Secon</u> W S D D D ts (C3) TI C	with Solk S dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8)			
Image: Arrive Difference Image: Arrive Difference Image: Arrive Difference Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (E Salt Crust (E Biotic Crust Aquatic Inve Hiydrogen S Oxidized Rh Presence of Recent Iron	211) (B12) ertebrates ulfice Od hizospher Reduces Reductio	s (B13) for (C1) es along d Iron (C4 on in Plow	Living Rco	<u>Secon</u> M S D D D ts (C3) T C 26) S:	MITTA SOILS Idary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)			
Image: Source Prime Difference Diff	Salt Crust (E Salt Crust (E Salt Crust (E Aquaric Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	311) (B12) entebrates ulfice Od nizospher Reductio ain in Ren	s (B13) lor (C1) es along d Iron (C4 on in Plow mar <s)< td=""><td>Living Rco</td><td>Secon Secon Secon S S D D C D Ls (C3) T C C6) Si</td><td>MITTA SOILS Idary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3)</td></s)<>	Living Rco	Secon Secon Secon S S D D C D Ls (C3) T C C6) Si	MITTA SOILS Idary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3)			
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Image: Prime Process Image: Prime Process Image: Prime Process Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inuncation Visible on Aerial Imagery (B7) Water-Stained Leaves (39) Field Observations: Surface Water Present? Yes Nater Table Present? Yes Water Table Present? Yes No	Salt Crust (E Salt Crust (E Salt Crust (E Salt Crust Aquarchare Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla X Depth (inch Depth (inch Depth (inch Depth (inch R Depth (inch Presence Pr	ALS (B11) (B12) entebrates ulfice Od hizospher Reduction reduction nes): hes): hotos, pre- botos, pre- botos, pre-	s (B13) lor (C1) es along d Iron (C4 on in Plow mar <s)< td=""><td>Living Rco</td><td>Secon W S D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D </td><td>with Solks dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3) AC-Neutral Test (D5) Present? Yes X No AMEGA</td></s)<>	Living Rco	Secon W S D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D 	with Solks dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) nallow Aquitard (D3) AC-Neutral Test (D5) Present? Yes X No AMEGA			
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Project/Site: UNE 400 1401 City/County:	YOLO Sampling Date:
Applicant/Owner:	State: CA Sampling Point: 75
Investigator(s): R. HUPPHESTUN Section, Towns	hip, Range: ION OIE SEC6
Landform (hillslope, terrace, etc.): HILLSLOPE Local relief (con	ncave, convex, none): NONE Slope (%): O-SE
Subregion (LRR): Lat: 38° 44′ 11.61	9" Long: 121° 54' 47.205 Datum: W65 84
Scil Map Unit Name: SEHORN CLAY, 2-15% SLOPE	NWI classification: NorE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly cisturbed?	Are "Normal Circumstances" present? Yes 📝 No
Are Vegetation, Soil, or Hydrolcgy naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling p	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _X Is the Sa Hydric Soil Present? Yes No _X within a Wetland Hydrology Present? Yes No _X within a	ampled Area Wetland? Yes No
Remarks: - ANNUAL GRASSLAND ADJACENT 3	TO SWALE - APPEARS TO HAVE
SOME OUEFLAND FLOW IN RESPONSE TO	STORM EVENTS BUT NO
WETLAND CITATRACTERISTICS.	
VEGETATION	
Tree Stratum (Use scientific names.) Absolute Dominant Indiana 1. NorfE	tatus Incertation Dominance Test worksheet: tatus Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3	Total Number of Dominant Species Across All Strata:(B)
4 Total Cover: P/A	Percent of Dominant Species That Are OBL, FACW, or FAC:33% (A/B)
1. PORE	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	$= \frac{\text{FACW species}}{\text{FACW species}} = \frac{1}{2} \times 2 = \frac{2}{2}$
5	$\underline{\qquad} FAC species \underline{\qquad} 20 \qquad x 3 = \underline{\qquad} 60$
Herb Stratum	UPL species $55 \times 5 = 275$
1. EROPIEM CICUTARIUM 40% × M	Column Totals: 96 (A) 417 (B)
2. Lation MULTIFEORUM 20% × Ft	tet 11 34
3. VULPIA MYURUS 20% × FAC	$\frac{2}{\sqrt{r}} \qquad Prevalence Index = B/A = \frac{7}{r} \frac{3}{2}$
4. AVENA BARBATA 10% N	Deminance Test is >50%
5. LUPINUS BILCLOR STO	$\frac{DOMINANCE results > 30\%}{DOMINANCE results > 30\%}$
6 [2 [2] [2 [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2] [Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	Indicators of hydric soil and wetland hydrology must
2.	be present.
Total Cover: MA	Hydrophytic
% Bare Ground in Herb Stratum 578 % Cover of Biotic Crust M/A	Present? Yes No X
Remarks: VECETAMON TYPILLE OF GRASSLAND,	PIN THIS LOCATION

SOIL					Sampling Point: 16
Profile Description: (Describe to the depth nee	ded to document t	he indicator	or confirm	n the absence	of indicators.)
Depth <u>Matrix</u>	Redox Fea	ures			
(inches) Color (moist) % Co	lor (moist)%	ype'	Loc	Texture	Remarks
0-6.5" 107R413 1007c				52	LOOSE, SANDY STRUCTUR
6.5-8" ICTR4/3 33%				SiL	MIXED THROGHOUT
7.5784/1 33%				- 1	
107R 5/2 33%					
8-16" 107/24/2 99% 10	784/4 19	т <u>с</u>	M	CLAY	
¹ Type: C=Concentration, D=Depletion, RM=Reduc	ced Matrix. ² Loca	tion: PL=Pon	e Lining, F	C=Root Chanr	nel, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRS,	unless otherwise	notea.)		Indicators	for Problematic Hydric Soils*:
Histosol (A1)	_ Sandy Redox (S5)		1 cm A	luck (A9) (LRR C)
Histic Epipedon (A2)	_ Stripped Matrix (S	50) (E4)		2 cm A	JUCK (A10) (LRR B)
Black Histic (A3)	_ Loamy Glouod M			Reduc	
Stratified Lavers (A5) (LRR C)	Depleted Matrix (=3)		Neu Fi	Explain in Romadic)
1 cm Muck (A9) (LRR D)	Redox Dark Surfa	ce (F6)			explain in Nemerks)
Depleted 3e/ow Dark Surface (A11)	Depleted Dark Su	rface (F7)			
Thick Dark Surface (A12)	Redox Depressio	ns (F8)			
Sandy Mucky Mineral (S1)	Vernal Pools (F9)			³ Indicators	of hydrophytic vegetation and
Sandy Gleved Matrix (SA)					here a low to a set of the set of the set of the set
Oandy Oleyeu Maurix (04)				wetland	nydrology must be present.
Restrictive Layer (if present):				wetland	nydrology must be present.
Restrictive Layer (if present): Type:				wetland	nyarology must be present.
Control of the sector of th	Record	5 81.1		Hydric Soil	Present? Yes No _X
Restrictive Layer (if present): Type: Depth (inches): Remarks: MIYED SCILS AT OF IFTMALC SOICS	BOTTON OF	= PLCO	2 L. SURF,	Hydric Soil	Present? Yes No X - NC ENTRENCE + CLICS PRESENT
Restrictive Layer (if present): Type: Depth (inches): Remarks: MIYED SCILS AT OF IFT MALC SOICS HYDROLOGY	BOTTOM OF SOME S	= PLCI	N L	Hydric Soil	Present? Yes No K - NO ENIPENCE + CLES PRESENT
Restrictive Layer (if present): Type: Depth (inches): Remarks: <i>MIYED</i> SaleS AT <i>OF IFT DRIC</i> SoleS HYDROLOGY Wetland Hydrology Indicators:	BOTTOM OF SOME S	= PLCO	2 L SURP.	Hydric Soil	Present? Yes No <u>X</u> - NC EXIPENCE + CLCS PRESENT dary Indicators (2 or more required)
Restrictive Layer (if present): Type: Depth (inches): Remarks: <i>MIYED</i> SCILS AT <i>OF IfMDRIC</i> SOICS HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	BOTTOM OF SOME S	= PLCO	2 L 5 L P.F.	Hydric Soil	Present? Yes No <u>X</u> - NC EXIPENCE +CHS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Control of the section of the secti	Borron on Some 3	= plco	2 C	Hydric Soil	Present? Yes No X - NC FHIPENCE +CHS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) edimen: Deposits (B2) (Riverine)
Control of the section of the secti	<i>B ⊂ TTDM OF</i> _S ∽ <i>M E</i> = Salt Crust (B11) Biolic Crust (B12)	= PLCC SMALL .	d L	Hydric Soil	Present? Yes No X - NC FUIPENCE + Cus Present dary Indicators (2 or more required) ater Marks (B1) (Riverine) edimen: Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Control Greyed Matrix (34) Restrictive Layer (if present): Type: None Depth (inches): MA Remarks: MIXED SCILS AT OF IMARCL SOICS HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Saturation (A3)	<i>B c TTDM OF</i> <i>S o M E</i> Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb	= <i>PLC</i> <i>FMT</i> .	2 C	Hydric Soil Hydric Soil Hy EFE He E CR Secon Secon Secon Secon	Present? Yes No X - NC FUIPENCE + CurS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rainage Patterns (B10)
Control Greyed Matrix (34) Restrictive Layer (if present): Type: NomE Depth (inches): MA Remarks: MIYED SCILS AT OF Implified Scills OF Implified Scills IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	<i>B c TTDM OF</i> <i>S om E</i> Salt Crust (B11) Biolic Crust (B12) Aquatic Inverteb Hydrogen Sulfid	= PL co construct construct 2) rates (B13) e Odor (C1)	N C	Hydric Soil Hydric Soil Hy EE CC Secon Secon W Secon De De De	Present? Yes No X - NO FUIPENCE +CLCS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2)
Restrictive Layer (if present): Type: None Depth (inches): N'A Remarks: MIYED SCILS AT OF IMARIC SOICS OF IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	<i>B c TTDM OF</i> <i>S om E</i> Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos	PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCCC PLCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCC PLCCCC PLCCC PLCCC PLCCC PLCCC PLCCCC PLCCCC PLCCCC PLCCCC PLCCCC PLCCCC PLC	SUPP)	Hydric Soil Hydric Soil Hydric Soil Secon Secon W Secon W Secon Di Di Di Di Di Di Di Di Di Di	Present? Yes No X - NO FUIPENCE +CLCS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment: Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) nin Muck Surface (C7)
Restrictive Layer (if present): Type: None Depth (inches): N'A Remarks: MIYED SCILS AT OF IMARIC SCILS - IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Decosits (B2) (Nonriverine) Drif. Deposits (B3) (Nonriverine) Sediment Decosits (B3) (Nonriverine)	<i>Berron or</i> <i>Seme</i> 3 Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec	PLCC FMTTC FMTTC Fates (B13) e Odor (C1) pheres along i luced iron (C4	J L S UP FO Living Rox	Wetland Hydric Soil Hydric Soil Hydric Soil Hydric Soil Secon Secon W Secon W Secon W Secon Dis Secon Dis Secon	Present? Yes <u>No K</u> - NC FULPENCE +CLCS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8)
Control Officient (IGA) Restrictive Layer (if present): Type: NomE Depth (inches): M/A Remarks: MIYED SCILS AT OF IMPRIC SCILS AT Surface Water (A1)	<i>B c TTOM OF</i> <i>S and E</i> Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Red	PL CA FMTTC FMTTC Fates (B13) e Odor (C1) pheres along I luced iron (C4 uction in Plow	Living Roc) ed Spils (1	Wetland Hydric Soil Secon Secon W Secon W Secon W Secon W Secon W Secon W Secon Hydron Secon Secon Secon Secon Secon Secon Secon Secon	Present? Yes No X - NC FUIPENCE +CCS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aeria! Imagery (C9)
Clarity Oreged Matrix (S4) Restrictive Layer (if present): Type: NorkE Depth (inches): M'A Remarks: MIYED SCILS AT OF IMARC SOICS - HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	<i>B c TTOM OF</i> <i>S and E</i> Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Red Other (Explain in	PLCC FMTLC FmTLC Frates (B13) e Odor (C1) pheres along i luced iron (C4 uction in Plow i Remarks)	Living Roc ed Spils (f	Wetland Hydric Soil Secon	Present? Yes No K - NC FullPEncts + Cus Present dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aeria! Imagery (C9) nallow Aquitard (D3)
Control of the present (164) Restrictive Layer (if present): Type: NorkE Depth (inches): MIXED Remarks: MIXED OF If Y DRIC Soft Soft HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Decosits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	<i>B cTTDM OF</i> <i>S om E</i> Salt Crust (B11) Biolic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Red Other (Explain in	PLCC PLCC PMTC Prates (B13) e Odor (C1) pheres along i luced iron (C4 uction in Plow i Remarks)	Living Roc) ed Spils ((Wetland Hydric Soil Secon	Present? Yes No X - NC FUIPENCE + CLCS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aeria! Imagery (C9) na:low Aquitard (D3) AC-Neutrel Test (D5)
Clarity Greyed Matrix (G4) Restrictive Layer (if present): Type: NOME Depth (inches): MIXED SCILS AT OF If TIPEL C SOICS OF If TIPEL C SOICS HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	<i>B c TTDM OF</i> <i>S om E</i> Salt Crust (B11) Biolic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Red Other (Explain in	PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC	Living Roc) ed Spils (f	Wetland Hydric Soil Secon Secon <td< td=""><td>Present? Yes No K - NC FUIPENCE +CKS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aeria! Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)</td></td<>	Present? Yes No K - NC FUIPENCE +CKS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aeria! Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Control of one of the data (Control Restrictive Layer (if present): Type: NorkE Depth (inches): M'A Remarks: MIXED SCILS AT OF If TIPLIC SOICS OF If TIPLIC SOICS HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drif: Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present?	<i>B c TTDM OF</i> <i>S and E</i> Salt Crust (B11) Biotic Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Red Other (Explain in Depth (inches):	PLCC PLCC PLCC PLCC PLCC PLCC PLCC PLCC	Living Roco) ed Spils ((Wetland Hydric Soil Hydric Soil Hydric Soil Secon	Present? Yes No K - NO ENIPENCE +CHS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment: Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rianage Patterns (B10) y-Season Water Table (C2) min Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aeria! Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Bestrictive Layer (if present): Type: NONE Depth (inches): M'A Remarks: MIXED SCLS AT OF IMARC SOLS OF IMARC SOLS HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Nc Water Table Present? Yes No	<i>B crrpM 04</i> <i>S crrpM 04 <i>S crrpM 04 <i>S</i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>	PLCA FMTTC FMTTC Fates (B13) e Odor (C1) pheres along I luced iron (C4 uction in Plow I Remarks)	Living Roc	Wetland Hydric Soil Secon Secon Secon Hydric Soil Secon Sec	Present? Yes No X - NO FINIPENCE +CICS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment: Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aeria! Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
Clarity Greyed Matrix (G4) Restrictive Layer (if present): Type: NowE Depth (inches): M'A Remarks: MIXED SCLS AT OF IMPRED SCLS AT Surface Water Case Sciences Sciences Surface Soil Cracks (B1) (Nonriverine)	<i>B crrpM of</i> <i>S om E</i> Salt Crust (B11) Biotic Crust (B11) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Red Other (Explain in Depth (inches): Depth (inches): Depth (inches):	PLCA FMTTC FMTTC Fates (B13) e Odor (C1) pheres along i luced iron (C4 uction in Plow i Remarks)	Living Rox	Wetland Hydric Soil Hydrology Sig Hydrology Arrow Hydrology	Present? Yes No <u>X</u> - NO EUIPERICE +CHS PRESENT dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment: Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aeria! Imagery (C9) hator Aquitard (D3) AC-Neutral Test (D5) Present? Yes No X

Remarks:	THIS	ARFA	APPEARS	SUB TEG	70 50	am E	OVERLAND	FLOWS
PULLA	~6 S	TORM,	EVENTS 0	UITH SUR	FACE	Frans	TO THE	
ADT	ACEN	-T SW	ME AR	34. But	NO IN.	DICATTO	~ of prol	ONGED
54701	rance	s or 1	NUNPATION	- 012 421	Intry	· It cit	WATER	

ProjectiSite: LINE 400/401	(City/County:	Y0	60	_ Sampling Date:	3/28/08
Applicant/Owner: PG\$E				State: CA	_ Sampling Point:	7c
avasticator(s): R. HURPLESTON	5	Section, Toy	vnship, Rai	رمر nge: الم	OIE SEC	. 6
nvesugator(s). <u>re: rep p = 2</u>		Local relief	(concave. d	convex. none): Non	Slo	De (%):0-52
	Lat: 38	* 44 ' 11	. 378"	1000: 1210 54	' 47. 375 Datu	m wosed
Subreçion (LRR):	-15%		v	NW/I close		. <u> </u>
Soil Map Unit Name: <u>SEH OF CUT 7</u>					Remarks	
Are climatic / hydrologic conditions on the site typical for the	s time of yea	ir? Yes		(if no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology s	ignificantly o	disturbed?	Are "	Normal Circumstances	present? Yes	×_ No
Are Vegetation, Soil, or Hydrology n	aturally prof	plematic?	(If ne	eded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sampling	g point le	ocations, transect	s, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes X N Hydric Soil Present? Yes X N Wetland Hydrology Present? Yes X N Remarks: DRACHAGE AREA TO	0 0 CUU	Is the within	e Sampled n a Wetlar	Area nd? Yes _/	KNo	
ON TOPOGRAPHIC MAP	200					
VEGETATION		D	1		desta se de	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant	rksneet:	
1 NONE				That Are OBL, FACW	, or FAC:/	(A)
2.				Total Number of Dom	inant	
3.				Species Across All St	rata: <u>/</u>	(8)
4Total Cove	r: <u>N/A</u>			Percent of Dominant That Are OBL, FACW	Species /, or FAC:/OC	28 (A/B)
				Prevalence Index wo	orksheet:	
2				Total % Cover of	:Multip	y by:
3.				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species	x 3 =	
Total Cove	r: <u>NA</u>	•		FACU species	x 4 =	
Herb Stratum	80%	×	IA+	UPL species	x5=	
1. Lation moutpedicity	15%		EACIN-	Column Totals:	(A)	(B)
2. AUGUA BARBATA	2-5%		NL	Prevalence Inde	ex = B/A =	
3. THEFT DIFFT				Hydrophytic Vegeta	tion Indicators:	
4				🔀 Dominance Test	is >50%	
6				Prevalence Index	x is ≤3.0'	
7.			-	Morphological Ad	daptations ¹ (Provide	supporting
8.				data in Rema	rks or on a separate	e sheet)
Total Cove	95%	+		Problematic Hyd	rophytic Vegetation	(Explain)
Woody Vine Stratum				Indicators of hudge	oil and water at the	Irology
1. NONE				be present.	son and wettand hyd	nology must
2	MIA			Hydrophytic		
Total Cove	er: <u>~//</u> +	-		Vegetation		
% Bare Ground in Herb Stratum 0-570 % Cove	er of Biotic C	crust <u>P//</u>	4	Present?	Yes 🔨 No _	
Remarks:						· · · · ·

SOIL								Sa	mpling Poi	int: 7c
Profile Desci	ription: (Describe	to the dep	th needed to docun	nent the ir	ndicator	or confirm	n the absence	e of indicator	rs.)	
Depth	Matrix		Redo	x Features			and the second			
(inches)	<u>Color (moist)</u>	%	Color (moist)	%	Type	Loc			Remark	S
0.2	10712912	9710	578916	170	_ <u>C</u> _	2C	<u> </u>	MANY	FINE	120075
2-3	107R413	78	10789/2	170	<u> </u>	m	<u> </u>			
3-4.5	ICYP4/2	98	107/29/3	610	<u> </u>	M	CL_			
4.5-55	1077573	45%	10712-3/6	5/0	4	M	_CL		-	
5.5.8	107R4/2	98%	1072314	2%	C	M	CL.			
8.8.5	10424/3	98	107R5/3	2%	_ <u>C</u>	M	CLAY			
8.5-16	104R4/2	95%	107R314	5%	<u> </u>	M	CLAY			
		· · · · · · · · · · · · · · · · · · ·								
¹ Type: C=Co	ncentration, D=Dep	letion, RM=	Reduced Matrix.	² Location:	PL=Por	e Lining, F	RC=Root Chan	nel, M=Matrix	x.	
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other	wise note	ed.)		Indicators	for Problem	natic Hydr	ic Soils ³ :
Histosol	(A1)		Sandy Redo	ox (S5)			1 cm	Muck (A9) (LI	RR C)	
Histic Ep	ipedon (A2)		Stripped Ma	trix (S6)			2 cm	Muck (A10) (I	LRR B)	
Black His	tic (A3)		Loamy Mucl	ky Mineral	(F1)		Reduc	ced Vertic (F1	8)	
Hydroger	n Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red P	arent Materia	al (T=2)	
Stratified	Lavers (A5) (LRR	C)	KDepleted Ma	atrix (F3)	/		Other	(Explain in R	emarks)	1/
1 cm Mu	ck (A9) (LRR D)	- /	Recox Dark	Surface (F6)		0.10		diff(di,)0)	
Depleted	Below Dark Surfac	e (A11)	Decletec Da	urk Surface	e (F7)					
Thick Da	rk Surface (A12)	~ ()	Redox Den-	essions (F	- ()					
Sandy M	ucky Mineral (S1)		Vernal Pool	s (F9)	-		³ Indicators	of bydrophyt	ic vegetati	bac ac
Sancy G	leved Matrix (S4)			. (,			welland	l avdrology m	uet ho ara	sent
Restrictive I	aver (if present):						wendie	inydroiogy in	lust be pla	sent.
-	ayer (in present).									
Type:	porte dia						Hudein Call	Duese at 2	Maria	
Depar (inc	nes)						Inguine Son	Flesent	res	NO
Remarks:	STRATFI	ED	Sells care		_		0 100	4		
	5/1-1/17		0.53	TUR		7177.	S AACEN	+ - M	XEP	
EXCA	NATED K	APSI.	DE PRAI	NAGE	E PI	TCH				
HYDROLOG	3Y									
Wetland Hvd	rology Indicators:					-	Seco	dary Indicato	ors /2 or m	ore required)
Primary India	ators (any one indic	ator is suffi	cient)				1/	Vator Marke /	P1\ (Pivor	ine)
Frina y inclo		4101 15 50 11	Coll Caust	(D44)		-			DI) (River	ine)
Surface V	vater (A1)		Sait Crust	(B11)			s	ediment Dep	csits (B2) (Riverine)
High Wat	er l'able (A2)		Biotic Crus	1 (812)			<u> </u>	rift Deposits	(B3) (Rive	rine)
Saturatio	n (A3)		Aquatic Inv	rertebrates	s (B13)		D	rainage Patte	erns (310)	
Water Ma	arks (81) (Nonriver	ine)	Hydrogen 3	Sulfide Od	or (C1)		D	ry-Season W	ater Table	(C2)
Sedimen	Deposits (B2) (No	nriverine)	Oxidized R	hizospher	es along	Living Roo	ots (C3) T	hin Muck Sur	face (C7)	
Drift Dep	osits (B3) (Nonrive	rine)	Presence of	of Reduced	d Iron (C4	4)	C	rayfish Burro	ws (C8)	1
Surface \$	Soil Cracks (B6)		Recent Iron	n Reductio	n in Plow	ed Soils (C	C6) S	aturation Visi	ble on Aen	al Imagery (C9)
Inundatio	n Visible on Aeria! I	magery (B)	7) × Other (Exp	lain in Ren	narks)	1979) - 1999 - 1997 - 1989 - 1989 - 1989 - 1989 - 1989 - 1989 - 1989 - 1989 - 1989 - 1989 - 1989 - 1989 - 1989		hallow Aquita	rd (D3)	
Mater St	sined Leaves (B9)		· · ·		·····		5 F	AC-Neutral T	net (D5)	
Water-ou	ations:					1			001 (00)	
Surface Wate	r Present? Y	es	No ⊁ Depth (inc	thes):						
Water Table I	Present? Y	es	No X Depth (no	:hes):						
Saturation Pr	esent? Y	es I	No 🗡 Depth (inc	hes):		Wetla	and Hydrology	Present?	Yes 🗡	No
(includes cap	lary fringe)			la la la com						
Describe Rec	orded Data (stream	gauge, mo	entoring weil, aenal p	notos, pre	vious ins	pections),	I ava lable:			
					_					
Remarks:	DRAINAGE	DITE	If The LUL	VER	7	UNDE	R RA	40 -1	CNUE	75
Sma.	1 instra	E								-
Sjojan	with the	, pie	as into	su	ALE	: FE	ATURE	\sim	TH	=

South SIDE OF THE READ

plicant/aunar PAF			State: CA Sampling Point
plicandowner <u>roze</u>	N.T. ARMSTRONG	Section Township Ra	ance: ION OIN SECIZ
vesugator(s): 1- 1- 1- 1- 1- 1- 1- 1-	ILL SLOPE	l ocal relief (concave	ronver rone) NONE Some
androrm (missione, terrace, etc.).	1at: 38	°44' 11. 286'	" Long: 121° 55' 17.209 Datum
	(INY 2-15)	<u>,,, ,,</u> 2	
oil Map Unit Name:	2047 2-1370		
re climatic / hydrologic conditions on the	site typical for this time of yea	Ir? Yes NO _	(If no, explain in Remarks.)
re Vegetation, Soil, or Hy	drology significantly o	disturbed? Are	"Normal Circumstances" present? Yes X
re Vegetation, Soil, or Hy	d:clogy naturally prof	olematic? (If n	eeded, explain any answers in Remarks.)
UMMARY OF FINDINGS - Atta	ach site map showing	sampling point	locations, transects, important fea
	Vac the No X		
Hydrophytic Vegetation Present?	Yes No X	is the Sample	d Area
Wetland Hydrology Present?	Yes No X	within a Wetla	and? Yes No X
Remarks: (PIAND SWA	ALE - NO WE		Ol TRAIN da D
	the per ale	LAND CITA	CACIERIS JICS
		Z den al se d'a s	
BELOW AVERAGE	SFASONAL A	AINFALL	
EGETATION	Abashita	Dominant Indiactor	Dominance Test workshest
Tree Stratum (Use scientific names.)	- Adsoute <u>% Cover</u>	Species? Status	Number of Oppingert Species
1. NONE			That Are OBL, FACW, or FAC:
2			Total Number of Dominant
3			_ Species Across All Strata: Z
4			Percent of Dominant Species
	Total Cover: <u>M4</u>		That Are OBL, FACW, or FAC: 50
Sapling/Shrub Stratum			Prevalence index worksheet
1. NOTE			Total % Cover of Multiply
2			OBL species x 1 =
3			FACW species x 2 =
4			FAC species $60 \times 3 = 18$
J	Total Cover: MA		FACU species $30 \times 4 = 12$
Herb Stratum	o sector sector to the sector se	-	UPL species $5 \times 5 = 7$
1. HORDEUM MARI	UUM 60%	X FAC	- Column Totals: 95 (A) 32
2. MEDICAGO POUTA	1012PH /A 25%	X FACU-	- 2.4
3. BROMUS HERPE	ACEUS 5	<u> </u>	Prevalence Index = B/A =
4. EROPIUM BOTT	<u>75</u> 5	NL	- Dominance Techic >50%
5			Prevalence Index is <3.0
6			Morphological Adaptations ¹ (Provide s
7		•	data in Remarks or on a separate s
8.	Idal Cover GC	\$	Problematic Hydrophytic Vegetation (
		2	
Woody Vine Stratum			1:ndicators of hydric soil and wetland hydro
Woody Vine Stratum			be present.
Woody Vine Stratum 1. POPE 2.			_
Woody Vine Stratum 1. NONE 2.	Total Cover. MA		Hydrophytic
Woody Vine Stratum 1. Non E 2.	Total Cover. MA		Hydrophytic Vegetation Present2 Veg No X
Woody Vine Stratum 1. 2. % Bare Ground in Herb Stratum	Total Cover. MA	- Crust_023	– Hydrophytic Vegetation Present? Yes No X

SOIL

Profile Description: (Describe to the depth needed to document the Indicator or con	firm the absend	e of indicators.)
Depth Matrix Recox Features	Texture	Remarks
0-2 107R412 98% 7.57R414 2 C RC	SCL	GRAVELCY
2-15 104/2/10/2	C	VERY GRAVELLY
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Linin, PL=Pore Lini, PL=Pore Linin, PL=Pore Linin, PL=Pore Lini,	g. RC=Root Cha Indicator 1 cm 2 cm	nne!, M=Matrix. rs for Problematic Hydric Soils ⁹ : n Muck (A9) (LRR C)
Black Histic (A3)	Redu	uced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Mathx (F2)	Red	Paren: Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 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) Vernai Pools (F9)	Othe	r (Explain in Remarks) rs of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wetlar	nd hydrology must be present.
Type:		
Depth (inches): 715 Remarks: FEW CONCENTRATIONS IN UPPER FUIDENCE OF ITY DIEIC SCIC - DOES	Hydric So Z" - N Not M	Dil Present? Yes <u>No X</u> IC STRONG EET AWY
Depth (inches): 715 Remarks: FEW CONCENTRATIONS IN UPPER ENIPENCE OF ITT DIELC SOLL - DOES CRITERIA	Hydric So 2" - N Not M	Dil Present? Yes No X
Depth (inches): 715 Remarks: FEW CONCENTRATIONS IN UPPER EVIPENCE OF ITY DIEIC SCIC - DOES CRITERIA YDROLOGY Wetland Hydrology Indicators:	Hydric So 2" - N NOT M. Sec	ondary Indicators (2 or more required)
Depth (inches): 715 Remarks: FEW CONCENTRATIONS IN UPPER FUIDENCE OF IMPRIC SOLL - DOES CRITERIA YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Hydric So Z" - N Not M. <u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): Remarks: FEW CONCENTRATIONS IN UPPE/E EVIPENCE CF INTRACE SCIL - POES C/CITERIA YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Sulface Water (A1) Salt Crust (B11)	Hydric So Z" - N Not M	Dil Present? Yes No X IC STRONG GET A-W7 Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): 715 Remarks: FEW CONCENTRATIONS IN UPPER FUI DENCE OF INT DIETE SOLE - DOES CRITERA YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Hydric Sc Z" - N NOT M. Sec	Dil Present? Yes No IC STRONG Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches): 715 Remarks: FEW Concentration'S IN UPPER FUI DENCE OF IMPRIC SOLE - DOES CRITERA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Hydric Sc Z" - N NOT M. Sec	Dil Present? Yes No C. STRONG Gendary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches): 715 Remarks: FEW CONCENTRATIONS IN UPPERE FUI DENCE OF IM DRIC SOLC - DOES CRITERIA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Hydric Sc Z" - N Not M Sec 	Dil Present? Yes No C STRONG GOT J-WT Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches): 715 Remarks: FEW CONCENTRATIONS IN UPPERE FWI DENCE CF INT DELC SCIL - DOES CRITERNA CRITERNA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rh zospheres along Living	Hydric So 2 " - N NoT M Sec 	oil Present? Yes No X C STRONG GET Aw7 ondary indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B*0) Dry-Season Water Table (C2) Thin Muck Surface (C7) Output
Depth (inches): 715 Remarks: FEW Concentration S IN UPPER FUI DENCE OF IM DRIC SOLC - DOES CRITERA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Hydric Sc 2 " - N NOT M. Sec Rcols (C3)	oil Present? Yes No X C STREWE Gendary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Depth (inches): 715 Remarks: FEW Concentration S IN UPPER FWI DENCE OF IMPRIC Solt - DoES CRITERIA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rh zospheres along Living Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soli Cracks (B6) Recent Iron Reduction in Plowed Soli Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Hydric Sc 2 " - ~ ~ ~ ~ Mor ~ ~ Sec 	Dill Present? Yes No C STRONG Gett J-WT Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9) Shellow Aquitard (D3)
Depth (inches): 715 Remarks: FEW Concentration S IN UPPERE FUIDENCE OF IMPRIC Solt - DoES CRITERIA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rh zospheres along Living Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Value (Explain in Remarks)	Hydric Sc 2 " - ~ ~ ~ ~ ~ ~ ~ Sec 	Dill Present? Yes No C STRCNG GC Strand Gondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): 715 Remarks: FE-W CONCENTRATIONS IN UPPERE FUI DENCE CF IM DELC SCIL - DOES CPUI TERMA COLTERMA YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rh zospheres along Living Drift Deposits (B2) (Nonriverine) Oxidized Rh zospheres along Living Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soli Cracks (B6) Recent Iron Reduction in Plowed Soli Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Fleid Observations:	Hydric So 2 " - N No7 M Sec 	Dil Present? Yes No X C STRONG GET AW7 Ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B*0) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9) Shellow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): >15 Remarks: FE-au concentration S in UPPE/E FUI DENCE CF IM DRIC SCIC - DOES CRITERA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rh zospheres along Living Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowec Soil Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Yes	Hydric So 2 " - N NoT M Sec 	Dil Present? Yes No X C STRONG Gondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): >15 Remarks: FEW CONCERNTRATIONS IN UPPER FUI PENCE OF IMADEL SCIC - DOES CRITERA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rh zospheres along Living Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soli Cracks (B6) Recent Iron Reduction in Plowed Soli Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Fleid Observations: Surface Water Present? Yes No Water Table Present? Yes No Water Table Present? Yes No Saturation Present? Yes No No Depth (inches): Water Table Present?	Hydric So Z " - N NoT M Sec Rcots (C3) Ils (C5) Ils (C5)	will Present? YesNo X c STRemb Gendary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9) Shellow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): >15 Remarks: FEW Concentration S IN UPPER EVI DENCE CF Iff DRIC Scit - Does CHTERA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Hydric So Z " - M Mar M Sec Sec Sec In Rcols (C3) Ils (C5) Vetland Hydrolo ns), if available:	will Present? YesNo X wic STRemb Gentry Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9) Shellow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): 713 Remarks: FEW Concern of INTONS IN UPPER FUI DENCE OF INTONS SCIC - DOES CRITERIA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Oxidized Rh zospheres along Living Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water Table Present? Yes No × Depth (Inches): Water Table Present? Yes No × Depth (Inches): W (Includes capillary fringe) No × Depth (Inches): Describe Recorder Data (stream gauge, monitoring weil, aerial photos, previous inspection Remarks: IOMAMETTER CULWERT AT WE	Hydric So Z " - N NoT M Sec Sec I Rcots (C3) ils (C5) Vetland Hydrolo ns), if available: Phare Je	will Present? YesNo X ac STRand Gard Amy Amy condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B*0) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) rgy Present? Yes No X
Depth (inches): >15 Remarks: FEW CONCENTRATIONS IN UPPERE EVI DENCE OF IMMETER SCIL - DOES CRITERIA YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Oxidized Rh zospheres along Living Drift Cacks (B6) Mater Stained Leaves (B5) Field Observations: Surface Water Present? Yes No Surface Callary fringe) Depth (inches): Water Table Present? Yes No Surface Callary fringe) Describe Recordec Data (stream gauge, monitoring weil, aerial photos, previous inspection Remarks: IOM MATERER LULWERT AT WE Pressories EPHEMERTE FLOW TMP Prossi Backs EPHEMERTE Prossi Backs EPHEMERTE Water Table Present EPHEMERTE Water Table Present? Yes No Depth (inches): <t< td=""><td>Hydric So Z'' - N NoT M Sec Sec Sec Sec Sec Sec Sec Sec</td><td>will Present? YesNo X ac STRand ac STRand Gendary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dnit Deposits (B3) (Riverine) Drainage Patterns (B'0) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9) Shellow Aquitard (D3) FAC-Neutral Test (D5) gy Present? Yes No X Empl act Surface MMMS AMAA, Bur MMMN GR</td></t<>	Hydric So Z'' - N NoT M Sec Sec Sec Sec Sec Sec Sec Sec	will Present? YesNo X ac STRand ac STRand Gendary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dnit Deposits (B3) (Riverine) Drainage Patterns (B'0) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aeria. Imagery (C9) Shellow Aquitard (D3) FAC-Neutral Test (D5) gy Present? Yes No X Empl act Surface MMMS AMAA, Bur MMMN GR

Project/Site: UNE UCO 1401	City/Count	y: 70	20	Sampling Date: 3/28/08
Applicant/Owner: PG\$E			State: 54	Sampling Point:8a
Investigator(s); R. Huppleston	Section, T	ownship, Rar	ige: 10 N	OLW SECI
Landform (hillslope, terrace, etc.): IfILLSLOPE	Local relie	ef (concave, c	onvex, none): <u>Nor</u>	Stope (%): 0.5
Subregion (LRR):	Lat: 38° 44'	11. 137 "	Long: 121° 55	"09. 511" Datum: W65 84
Soil Map Unit Name: SIE HOIR CLAY	2-15%		NWI class	ification: Name
Are climatic / hydrologic conditions on the site typical for this	lime of year? Yes _	× No	(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology si	gnificantly disturbed?	Are *	Normal Circumstances	s' present? Yes X No
Are Vegetation , Soil , or Hydrology na	aturally problematic?	(If ne	eded, explain any ansi	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing samplin	ng point lo	ocations, transec	ts, important features, etc.
				4
Hydrophytic Vegetation Present? Yes No		he Sampled	Area	
Wetland Hydrology Present? Yes No	wit	hin a Wetlan	d? Yes_	No <u>_X</u>
Remarks and a second se		c	D GLACI	2
UPLAND SWALE - POTE	NTIAL OU	erecon	prow,	BUT NO
EUPENCE OF WERAWP IF	TPRELOGY	at the	PRIL SOIL	
VEGETATION	-			
Tree Stratum () is a calentific names)	Absolute Dominan % Cover Species	it Indicator 7 Status	Dominance Test wo	orksheet:
1 How	<u></u>	<u> </u>	Number of Dominant	t Species
2				00
3	,		Total Number of Dor Species Across All S	ninant Strata: / (B)
4				(2)
Total Cover	NA		Percent of Dominant	NorFAC: 190% (A/B)
Sapling/Shrub Stratum				
1. NONE	· <u> </u>		Prevalence Index w	vorksheet:
2	· · · · · · · · · · · · · · · · · · ·		<u> </u>	Multiply by:
3	·		EACIM species	X1=
4			FAC species	x 3 =
5 Total Cover	NIA	-	FACU species	x 4 =
Herb Stratum			UPL species	x 5 =
1. LOLIUM MULTREOPUM	90% ×	FAC*	Column Totals:	(A) (B)
2. RUMEX CRISPUS	5%	FACW-		
3. HORDEUM MARINUM SP. 6455.	2%	FAC	Prevalence Inc	iex = B/A =
4. VICIA SP.	27.	NL-FACU	Hydrophytic Veget	ation Indicators:
5. AVENA BAZBATA	176	PL	_X Dominance Tes	t is >50%
6. GERANIUM DISSECTUM	1	PL	Prevalence inde	$2X$ is ≤ 3.0
7			data in Rema	arks or on a separate sheet)
8	1009		Problematic Hyd	drophytic Vegetation ¹ (Explain)
Woody Vine Stratum	10070			
1. NONE			Indicators of hydric	soil and wetland hydrology must
2.			be present.	
Total Cover	MA		Hydrophytic	
% Pare Ground in Herb Stratum 0% Cover	of Biolic Crust	A	Vegetation Present?	Yes X No
Damarke:			1	
remarks.	745			
		121		

								dumping on
Profile Description:	(Describe t	to the depth	n needed to docur	ment the ir	ndicator	or confirm	n the absenc	e of indicators.)
Depth	Matrix		Redo	x Features				-
(inches) Cole	cr (moist)	%	Color (moist)	. %	Type'	_Loc*	Texture	Remarks
0.2" 10	712-12	99%	57/24/6	10	c	PC	SCL	MANY FILE ROOTS
2-8" 10	7R3/2	99%	7.57 × 3/4	1%	C	M	SCL	
815" 10	7×4/2	99%	7.57R 3/4	1%	C	M	L	
	alica D=Depl		Parturad Matrix	2: ceration:	- DI - Do			
veric Soil Indicate	ors: (Applica	able to all L	RRs, unless othe	rwise note	ed.)	e uning, r	Indicator	s for Problematic Hydric Soils ³ :
Histoso' (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratif ed Layers 1 cm Muck (A9) Depleted Below	(A2)) le (A4) 5 (A5) (LRR C (LRR D) Dark Surface	C) e (A11)	Sandy Red Stripped Ma Loamy Muc Loamy Gle Cepleted M Redox Darl Depleted D	ox (S5) atrix (S6) cky Mineral yed Matrix latrix (F3) k Surface (lark Surface	(F1) (F2) F6) e (F7)		1 cm 2 cm Redu Red I Other	Muck (A9) (LRR C) Muck (A10) (LRR B) ced Veric (F18) Parent Material (TF2) (Explain in Remarks)
_ Thick Dark Surfa _ Sanoy Mucky M Sancy Gleyed N	ace (A12) Ineral (S1) Natrix (S4)		Redcx Dep Vernal Poo	ressions (F is (F9)	-8)		³ Indicators wetlan	s of hydrophytic vegelation and d hydrology must be present.
Cartranan Jay a www.skaa						_	1.17.4.14 2.3.	
ovر Remarks:	STRON	61 EUI	DENCE CI	- 1471	9 <i>7</i> 84 C	5016	5	
ەىر ^{Remarks:} YDROLOGY	57720N	61 EUI	DENCE CI	F 1471	PRIC	5016	5	
کر Remarks: YDROLOGY Vetland Hydrology	ST 720 N	61 EUI	DENCE CI	F 1471,	P JEI C	5016	S S Seco	andary Indicators (2 or more required)
کر Remarks: YDROLOGY Vetland Hydrology Primary Indicators (a	STRON Indicators:	61 Eur		F 1471,	P,R4C	5016	<u>Secc</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
emarks: مرم YDROLOGY Vetland Hydrology Primary Indicators (a Surface Water (J	مر <i>57 اگر م</i> ر Indicators: any one indica	61 For	ient)	(B11)	P,RH C	5016	Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
YDROLOGY YDROLOGY Vetland Hydrology Primary Indicators (a Surface Water (a High Water Tab	r Indicators: any one indica A1) le (A2)	61 Eur	ient) Salt Crust	E ///7/	2,84 C	5016	<u>Secc</u>	andary Indicators (2 or more required) Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YDROLOGY YDROLOGY Vetland Hydrology Primary Indicators (a Surface Water (a High Water Tabl Saturation (A3)	r Indicators: any one indic A1) Ie (A2)	61 Eur	ient) Salt Crust Biotic Cru	(B11) st (B12) verteorates	р <i>р</i> с	5016	S	andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLOGY YDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B	۲ Indicators: any one indica A1) Ie (A2) 1) (Nonriveri	61 Eur ater is suffic	iient) Salt Crust Biotic Cru Aquatic In Hydrogen	E /////	s (B13)	5016	<u>Secc</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOGY YDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (a High Water Table Saturation (A3) Water Marks (B Sediment Depos	strike or v Indicators: any one indica A1) le (A2) 1) (Nonriveri si:s (B2) (Nor	61 For ator is suffic ine) nriverine)	ient) Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	E ///// (B11) st (B12) vertebrates Sulfide Od Rhizospher	s (B13) ior (C1) res along	Sel C	S Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C?)
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Permarks: YDROLOGY Wetland Hydrology Primary Indicators (a 	STRON Indicators: any one indici A1) le (A2) 1) (Nonriveri sits (B2) (Nor 33) (Nonriver acks (B6) te on Aerial in teaves (B9) t ent? Yi ant? Yi t? Yi mge)	61 Eur ator is suffic ine) nriverine) rine) magery (B? es N es N es N	ient) Salt Crust Biotic Cru Aquatic In Aquatic In Aquatic In Oxidized I Presence Recent Irc Other (Exc Io \rightarrow Depth (in Io \rightarrow Depth (in	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reduction plain in Rer inches): inches):	s (B13) ior (C1) res along d Iron (C- on in Ploy marks)	Sele,	Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (C3) FAC-Neutral Test (D5)
Primary Indicators (a Surface Water (a High Water Table Saturation (A3) Water Marks (B Sediment Deposits (B Sediment Deposits (B Dr.ft Deposits (B Surface Soil Cra Inundation Visit Water-Stained L Field Observations Surface Water Present Saturation Present? includes capillary fri Describe Recorded in	STRON Indicators: any one indici A1) le (A2) 1) (Nonriveri sits (B2) (Nor 33) (Nonriveri acks (B6) te on Aerial in teaves (B9) t ent? Yi ant? Yi t? Yi nge) Data (stream	61 Evr ator is suffic ine) nriverine) rine) magery (B? es N es N es N gauge, mor	ient) Salt Crust Biotic Cru Aquatic In Aquatic In Aquatic In Oxidized I Presence Recent Irc Other (Exc Io \rightarrow Depth (in Io \rightarrow Depth (in	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduceion Reduceion Reduceion Reduceion reduction plain in Ren inches): inches): photos, pre	s (B13) lor (C1) res along d Iron (C- on in Ploy marks)	Living Roc) /ed Soils (f Weth pections),	S Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Sec	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (C3) FAC-Neutral Test (D5)
Remarks: YDROLOGY Wetland Hydrology Primary Indicators (a	STRON Indicators: any one indicators: A1) le (A2) 1) (Nonriveri sits (B2) (Nor 33) (Nonriveri acks (B6) te on Aerial in teaves (B9) teaves	ator is suffic ine) nriverine) rine) magery (B? es N es N gauge, mor	ient) Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Exi Do Depth (in Io Depth (in hitoring weil, aerial CAND FLCC	F /////	s (B13) ior (C1) res along d Iron (C- on in Plov marks) evicus ins	Living Roc) ved Soils (1 	S Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Sec	ndary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (C3) FAC-Neutral Test (D5) py Present? Yes No py Present? Yes No
Remarks: Jo YDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (a) High Water Table Saturation (A3) Water Marks (B) Sediment Depoils (B) Surface Soil Crained L Nurface Soil Crained L Surface Soil Crained L Surface Soil Crained L Field Observations Surface Water Present Saturation Present? Cincludes capillary fri Describe Recorded in Remarks: PortEx ARPEACE	STRON Indicators: any one indici A1) le (A2) 1) (Nonriveri sits (B2) (Nor 33) (Nonriver 33) (Nonriver 34) (Nonriver 34) (Nonriver 35) (Nonriver 36) (Nonriver 36) (Nonriver 37) (Nonrive	GI EUI ator is suffic ine) nriverine) ine) magery (B? es N es N es N gauge, mor OVER C UPPOR	ient) Salt Crust Biotic Cru Aquatic In Aquatic In Aquatic In Aquatic In Aquatic In Aquatic In Aquatic In Presence Recent Irc Other (Ex Depth (in Io > Depth (in Io > Depth (in Io > Depth (in Io > Depth (in Aquatic In Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence Presence	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduction plain in Ren uches): iches): photos, pre	s (B13) ior (C1) res along d Iron (C- on in Ploy marks) wious ins wious ins	Living Roc Living Roc Ped Soils (Wetti pections), Case of the second Performance of the second	S Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Seco Sec	Indary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) By Present? Yes No _X

Project/Site; LINE 400 / 406	City/C	ounty: Y	1010	Sampling Date:	3128108
Applicant/Owner: P63E			State: CA	Sampling Point:	85
Investigator(s): R. HUPPLESTON	Sectio	n, Townshio, Ra	nge: , , , , , , ,	OW SECT	
Landform (hillslope, terrace, etc.): ///// SLOPI	E Local	relief (concave,	convex, none): No	NE Slope	e (%): 0-5-2
Subrecion (LRR):	Lat: 38° 44	111.052	Lonc: 121° 55	'04. 124 Datum	W6584
Soil Man Linit Name: SEI toizh CHA	4 2-15%		NM class	ification:	. <u></u>
Are climatic (hydrologic concilions on the site typical fo	r this time of year? Y	as ar No	//f.no. evolain is	Permarke)	
	significantly disturb				
Are Vegetation, Soil, or Hydrology	significantly distort	iel: Ale	normal circumstances		NO
Are vegetation, soli, or Hydrology	naturally problema	uc: (ane	eeueu, explain any ans	wers in Remarks.)	
SUMMARY OF FINDINGS – Attach site m	ap showing sam	pling point I	ocations, transec	ts, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes X	_ No	Is the Sampled	Area		
Hydric Soli Present? Tes	No X	within a Wetlar	nd? Yes_	No X	
Remarks:			Clark		
GRASST SWARE - por	ENTRE OU	=/scanp	from in	RESPONSE	70
STERM EVENTS, BUT DOE.	S NOT AN	PEAR	te support	wenter	>
HADROLD 67					
VEGETATION					
Tree Stratum () les selectifis names)	Absolute Dcm	inant Indicator	Dominance Test wo	orksheet:	
1 (Use scientific names.)	- Spec		Number of Dominant		
12			mar Ale OBL, FACY	V, OFFAC.	(A)
3			Total Number of Don Species Across All S	ninant Z	(2)
4.			00000070000070		(5)
Total C	over: N/A		Percent of Dominant	Species	9. (A/P)
Sapling/Shrub Stratum					<u>(AUB)</u>
1. NONE			Prevalence Index w	orksheet:	
2			Total % Cover o	f. Multiply I	<u> </u>
3				x 1 =	
4			FAC species	x 2 =	
J	over: MA		FACU species	× 3 =	
Herb Stratum			UPL species	× 5 =	
1. LOLIUM MULTIFLORUM	X	FAC#	Column Totals:	(A)	(B)
2. HORDEUM MARINUM SSP. G.	<u>us 35% ×</u>	FAC	a		
3. GERANIUM DISSECTUM		NL	Prevalence Ind	ex = B/A =	
4. KUMEX CRISPUS		FACW-	Hydrophytic Vegeta	ation Indicators:	
5. AMSINKIA MENCIES	<u> </u>	NL	∠ Dominance Test Preveleace Inde	xic <3.0 ¹	
C. UILIA UILUTA		EAC	Mornhological A	dantatione ¹ (Drovide e	Innortin a
		mic	data in Rema	rks or on a separate st	neet)
To:al C	over 1000		Problematic Hyd	Irophytic Vegetation ¹ (B	Explain)
Woody Vine Stratum					
1. NONE			Indicators of hydric s	soil and wetland hydrol	ogy must
2			be present.		
To!al C	over: NA		Hydrophytic		
% Bare Ground in Herb Stratum % C	over of Biotic Crust	VIA	Present?	Yes 🔀 No	
Remarks:					
CRASSY SWALE - SI	HFT TOWAR	eps FAcc	CTATIVE SI	RELIES IN	,
THIS LOCATION RELATIVE	TO ADJAC	ENT 6	RASSLAND		

SOIL	
------	--

(inches) Color (moist) %	Color (moist) % Type Loc [®]	Texture	Remarks
0-7 104R412 100%		CL	FINE ROCTS UPPEZ3"
1-16 10712412 100%		<u> </u>	FIEW GRAVELS
ype: C=Concentration, D=Depletion, RM=Re	duced Matrix. ² Location: PL=Pore Lining, RC	Root Chan	nnel, M=Matrix.
Elected (A1)	Sandy Redox (S5)	i cm l	Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm i	Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F*)	Reduc	ced Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red P	arent Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other	(Explain in Remarks)
_ 1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)		
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
_ Thick Dark Surface (A12)	Redox Depressions (F8)	3 diastara	of burdeen budie we estelland and
Sandy Mucky Mineral (ST)		wetland	d hydrology must be present
estrictive Laver (if present):			ingalology mast be present.
Type: NONE			
Death (inches): MIA	_	Hudrig Soil	Procent? Vac No Va
Deptn (inches).			
NO ENIDENCI INDIATORS OTHER IDROLOGY	E OF REPOR OF OT	HER.	Itipperc Soil
Vetland Hydrology Indicators:		Seco	ndary Indicators (2 or more required)
rimary Indicators (any one indicator is sufficie	()	V	Water Marks (B1) (Riverine)
Surface Water (A1)	Salt Crust (B11)	s	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	C	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	C	Drainage Patterns (810)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfice Odor (C1)	C	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots	(C3) T	Thin Muck Surface (C7)
Drif. Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	0	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils (CB	S) S	Saturation Visible on Aerial Imagery (C
loughtion Visible on Aerial magery (87)	Other (Explain in Remarks)	9	shallow Aquitard (E3)

____ FAC-Neutral Test (D5)

Field Observations:			
Surface Water Present?	Yes	No 🗡 Uepth (inches)	
Water Table Present?	Yes	No 🔀 Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes	No X Depth (inches):	Wetland Hydrology Present? Yes No 🗠
Describe Recorded Data (st	ream gauge	e, monitoring well, aerial photos, previo	bus inspections), if available:
BUT NO EN,	DENC	EPLAND FLOW IN E OF PROCONDE	PESPONSE TO STORM EVENTS P SATURATION OF INUNRATION
NO BLUE 4,	NEOI	~ TOPO MAP	

Water-Stained Leaves (B9)

Project/Site: LIME 400/4	01	City/	County:	70	no	_ Sampling Date:9
Applicant/Owner: P63E					State:A	_ Sampling Point: <u>SP</u>
nvestigator(s): R. HUDTLESTON,	T. ARMSI	RONG Sect	ion, Tow	nship, Ran	ge: 1020	I W SECIZ
andform (hillslope, terrace, etc.):	SLOPE	Loc	al relief (concave, c	onvex, none):	<u>Stope (%)</u>
Subregion (LRR):		Lat: 38°4	14'11	.208"	Long: 121 55	28.427 Datum: W
Soil Map Unit Name: SEHORN	LAY	2-15%	5		NWI classif	ication: POPE
Are climatic / hydrologic conditions on the site	typical for this	time of year?	Yes	No _>	⊻ (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrol	ogy s	gnificantly distu	urbed?	Are *N	Normal Circumstances"	present? Yes N
Are Vegetation, Soil, or Hydro	ogy <u> </u>	aturally proble:	natic?	(If nee	eded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach	site map s	howing sa	mpling	point lo	ocations, transect	s, important feature
			T		,	, ,
Hydrophytic Vegetation Present? Ye	s <u>X</u> No	,	Is the	Sampled	Area	
Hydric Soil Present? Ye	sNo	<u> </u>	withi	n a Wetlan	d? Yes	No <u>X</u>
Remarks:		<u> </u>		11 KUTAN	279 #35	
HEINER UPLAND SWALE	- POTEN	-nthe of	Epa	AND F	-cow, But N	of WEATANP
HTPROLOGT IN THIS .	APER					
BELOW AVERAGE SEA.	SONAL 1	CAIN FA	16			
VEGETATION					1	
Trop Strahm (I is a scientific names)		Absolute Da % Cover Si	ominant pecies?	Indicator Status	Dominance Test wo	rksheet:
1 NONE					That Are OBL, FACW	Species
2.		· <u> </u>			Total Number of Dam	inant
3		· - <u> </u>			Species Across All St	rata: <u> </u>
4					Percent of Dominant	Species
	Total Cover	N/A			That Are OBL, FACW	I OF FAC: 50%
					Prevalence Index w	orksheet:
2			2		Total % Cover of	Multiply by:
3.					OBL species	x 1 =
4		. 			FACW species	<u> </u>
5					FAC species	$60 \times 3 = 120$
	Total Cover	· <u>P/A</u>			FACU species	<u>31</u> ×4= <u>124</u>
1 If CR DENM MARIN	UM	60	x	FAC	UPL species	$\underline{\leftarrow} x5 = 10$
2 MEDICAGO POLTMO	PHA	30	× 7	FALU-		7_ (A) <u>238</u>
3. BRONUS HORDEA	EUS	T		FACU-	Prevalence Inc	ex = B/A = 2.7
4. RUMER CRISPUS		7		FACW-	Hydrophytic Vegeta	flon Indicators:
5. ERODIUM BOTRY	s	- <u>_</u>		NL	Dominance Test	is >50%
6. CENTAUREA SOLS;	TTAUS	- <u> </u>		ML	X Prevalence Inde	x is ≤3.0'
7					data in Rema	paptations' (Provide support irks or on a separate shee
8		954			Problematic Hyd	rophytic Vegetation (Exp
Woody Vine Stratum	lotal Cove	r. 7318			sandG	
1. NONE					Indicators of hydric	soil and wetland hydrology
2					be present.	
	Total Cove	r. NA			Hydrophytic	
% Bace Ground in Herb Stratum	% Cove	r of Biotic Crus	t ~//	4	Vegetation Present?	Yes 🔀 No
Remarks:						
Remarks:				*		

	Color (moist) % Type	Loc ²	Texture		Remarks
-Z 104R4/3 97%	7.578314 3% C	RC	SCL	VERY	GRAVELLY
-18 107R4/1+ -		-	c	VERY	GRAVELLY
e: C=Concentration, D=Depletion, RM=	Reduced Matrix. ² Location: PL=P	we Lining, R	C=Root Chan	nėl, M=Matrix.	
ric Soll Indicators: (Applicable to all L	.RRs, unless otherwise noted.}		indicators	for Problemat	ic Hydric Solis":
Histosol (A1)	Sandy Redox (S5)		1 cm M	Auck (A9) (LRR	C)
Histic Epipedon (A2)	Stripped Matrix (S6)		2 cm M	Auck (A10) (LR	R B)
Biack Histic (A3)	Loamy Gleved Matrix (F1)	8	Reduc	ed Venic (* 16)	TED
Stratified Lavers (A5) (LRR C)	Depleted Matrix (F3)		Other	(Explain in Rem	arks)
1 cm Muck (AS) (LRR D)	Redox Dark Surface (F6)				
Depleted Below Dark Surface (A11)	Depieted Dark Surface (F?)				
Thick Dark Surface (A12)	Recox Depressions (F8)		2		
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		indicators	of hydrophytic v	vegetation and
Sandy Gleyed Matrix (S4)			Wedand	nyarology mus	t be present.
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SATURATION OR INUNDATION - NOT A BLUE LINE ON TOPO MAP

pilloartOverst: PG J E State: CA Sample Port: Yes vestigator(s): PC Intel State: Coal milet (concare, convex, none): MAM 2 Section, Torriship, Range: Intel State: Section, Torriship, Range: Note: Note: Section, Torriship, Range: Note:	oject/Site: UNE 400/401	_ City/County:	10	Sampling Date: _	3/28/08
setup: K. [HP]PPESTON Setup: Cover interce; itel: Setup: Cover interce; itel: Setup: Setup: <td< td=""><td>plicant/Owner: PG3E</td><td></td><td> State: CA</td><td>Sampling Point:</td><td>4a</td></td<>	plicant/Owner: PG3E		State: CA	Sampling Point:	4a
rdtom (hildsope, terrace, etc)/// LEVEX	restigator(s): <u>K. HUPPLESTON</u>	Section, Township, Ra	ange: 10N 01	W SECT	
bing on (RRR) C	ndform (hillslope, terrace, etc.):	Local relief (concave,	convex, none): Non E	Slop	e (%): 0-5/
al Map Unit Name: C C B M ING C B AU BLLY L C AM Z - 15 Z NWD classification: MMME o dimate / hydrology significantly disturbed? Are "kormal Circumstances" present? Yes	bregion (LRR): Lat: 3	38 44 12.169	Long: 121 55 0	29.674 Datur	n: <u>W6584</u>
s dimatic / hydrologic conditions on the size hydrol for this time of year? Yes No (If no, explain in Remarks.) s Vegetation Soil or Hydrology redutably problematic? (If records, erating any answers in Remarks.) JIMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No within a Wetland? Yes No Velland hydrology Present? Yes No within a Wetland? Yes No Velland hydrology Present? Yes No within a Wetland? Yes No No Wetland hydrology Present? Yes No within a Wetland? Yes No	il Map Unit Name: CORNING GRAVELLY LO	AM 2-15%	NWI classific	ation: NOME	·
Vegetation	e climatic / hydrologic conditions on the site typical for this time of	year? Yes 🗡 No	(If no, explain in R	emarks.)	
e VagstationSol or Hydridegy _Kraturally problematic? (If needed, explain any answers in Remarks.) UMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? YesNo _XIs the Sampled Area within a Wetland? YesNo _X Is the Sampled Area within a Wetland? YesNo _X Remarks Swhee MERA - Schell Score CHAMMEL NEET FORSE for Spectral Everyst PPEARS To ILAVE Score CWEATION FRONT FROM IN FESSIONSE for Spectral Everyst PPEARS To ILAVE Score CWEATION FROM INFORMED TO Dominant Species Part WESTERN (Use scientific names.) Absolute Dominant Indicator Absolute Dominant Species 20 x 3 = 60 I	e Vegetation, Soil, or Hydrology significan	ntly disturbed? Are	"Normal Circumstances" p	present? Yes 🗡	No
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Within a reliand to Tes NO Remarks: SWALE AFRAA SMALE STELLAND STELAND STELLAND STELLAND	Hydric Soil Present? Yes No	- Is the Sample	d Area	No X	
Remarks: SWARE ALEA + SMALL Socule CHAMPEL NEAR CULVELET APPEARS TO IAVE Sonte SOERATOR Frout IN FESPONSE TO STORAT EVENTS, BUT AND INCLOSY SOLATOR OR IMPRESS FURDENT EEGETATION Absolute Dominance Test worksheet: Number of Dominant Species Impression 1 MONE Total Number of Dominant Species That Are OBL, FACW, or FAC: Impression (A) 2 Total Number of Dominant Species That Are OBL, FACW, or FAC: Impression (A) 3 Total Cover: MLA Prevalence Index worksheet: Impression (A) 1 MONE Total Scover of Multiply by OBL species Impression X1 = 2 Total Cover: MLA FACU species Impression X1 = Z2 3 Total Cover: MLA FACU Secies X1 = Z2 Z2 </td <td>Welland Hydrology Present? Yes No 🗡</td> <td>within a wetta</td> <td>and? Yes</td> <td> NO</td> <td>2</td>	Welland Hydrology Present? Yes No 🗡	within a wetta	and? Yes	NO	2
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2 Total Number of Dominant 3 (B) 3. Total Cover: P/A Species Across All Strata: 3 (A) 4. Percent of Dominant Species 33% (A) 1 PorVE Prevalence Index worksheet: 33% (A) 2 OBL species 0 x1 = FACW species 0 x2 = 20 3. Total Cover: P/A Prevalence Index worksheet: 0 0 X2 = 20 0 X2 = 20 X4 = 300 UPL species X3 = 60 X4 = 300 UPL species X4 = 300 UPL species X5 = Z5 Column Totals: I////////////////////////////////////	1. NOME		That Are OBL, FACW,	or FAC:	(A)
3. Total Cover: M/A 4. Total Cover: M/A Sapling/Shrub Stratum Prevalence Index worksheet: 1 PoPE 2 OBL species 3. Total Cover: M/A 4. Total Cover: M/A 9 Prevalence Index worksheet: 2 Total Gover: M/A 4. Total Cover: M/A 4. Total Cover: M/A 4. Total Cover: M/A 4. FAC species 5. Total Cover: M/A 1. BRomus Interperations Stratum 1. BRomus Interperations Stratum 2. Vul. P(A MYVEOS 3. Horb Devin MARINUM Stratus 3. Horb Devin MARINUM Stratus 4. Rum Ex CRISPUS 5. AVENA BATEATA 6. BAPENTIA 7. AMSINCMA MERZIESII 7. AMSINCMA MERZIESII 7. AMSINCMA MERZIESII 7. Total Cover: IOG 8 Total Cover: I/A Yesees of hydric soil and wetland hydrology must be present. Yoody	2		Total Number of Domis		
4. Total Cover: M/A Percent of Dominant Species 33% (A/B) Sapling/Shrub Stratum 1. MoNE Prevalence Index worksheet: 1. 2.	3		_ Species Across All Stra	$a_{1a} = 3$	(B)
Total Cover: M/A The there building between the there building by the stratum 3.3.6.(A/B) 1. Months Prevalence index worksheet: 3.6.(A/B) 2. Total Cover: M/A Total % Cover of Multiply by: 000000000000000000000000000000000000	4		- Dereent of Deminent S		/
Sapling/Shrub Stratum Prevalence Index worksheet: 1 POPE 2 Total % Cover of: Multiply by: 3 OBL species O x 1 = 4 FACW species IO x 2 = ZO 5 Total Cover: P/A FACW species ZO x 3 = 6O 1 BRemus Interpenceurs SO2 X FACU FACU species X 4 = 3OO 1 BRemus Interpenceurs SO2 X FACU FACU Prevalence Index worksheet: Image: Social Soci	Total Cover: <u>P/A</u>	L	That Are OBL, FACW,	or FAC: 33	3/0 (A/B)
Image: Prevalence index worksheet: 2 Total % Cover of: Multiply by: 3 OBL species O x 1 = 4 FACW species IO x 2 = ZO 5 Total Cover: P/A FACU species ZO x 3 = GO 1 BRemus Herb Stratum FACU species TS x 4 = $3OC$ 2 Vull P(A MYUROS ZSX $FACU$ Column Totals: IIO (A) $4OS$ (B) 2 Vull P(A MYUROS ZSX $FAcut^*$ Prevalence Index = $B/A =$ 3.68 4 $FACU Species$ TS $S =$ ZSX $FAcut^*$ Prevalence Index = $B/A =$ 3.68 4 $FACU P(A MYUROS)$ ZX $FAcut^*$ Prevalence Index = $B/A =$ 3.68 5 $AuenA$ $BAFBATTA$ ZX NL Provalence Index is $s3.0^1$ Prevalence Index is $s3.0^1$	Sapling/Shrub Stratum				
2. Idda to cover of the multiply by 3. OBL species Nulliply by 3. OBL species Notestime 4. Second Stratum FACW species IO $x 2 = 20$ FACW species IO $x 2 = 20$ FACW species $x 3 = 60$ FACU species IO $x 2 = 20$ FACU species $x 4 = 300$ UPL species IO $x 5 = 25$ Column Totals: IIO (A) 405 (B) 2. VUL P(A MYVROS IOS IOS $x FAcu^+$ Prevalence Index = B/A = 3.68 4. Rum Ex CRISPUS IOS $x FAcu^+$ Prevalence Index is 53.01 5. AVENA BAPBATTA IOS Prevalence Index is 53.01 Prevalence Index is 53.01 6. BRemus DIAMPTRUS IN NUM Provide supporting data in Remarks or on a separate sheet) 8. Total Cover: IOS Problematic Hydrophytic Vegetation 1 (Explain) Woody Vine Stratum Indicators of hydric soil and wetland hydrology must be present. Indicators of hydric soil and wetland hydrology must be present. % Bare Ground in Herb Stratum % Cover of	1. <u>Nork</u>	······································	Trevalence index wor	KSNeet:	1
3. OBL Species O $X = 20$ 4. FACW species O $X = 20$ 5. Total Cover: M/A Harb Stratum FAC species O $X = 300$ 1. BRomus (HorpEACEUS) SU_2 X FACU 2. Vul P(A $MYUROS$ ZS_3 X FACU 3. HorbEurl MYUROS ZS_3 X FACU 4. Rum E X CRISPUS ZO_2 X FACU 5. AVENA BAFBATA Z^*_{abc} NL Ormance Test is >50% 6. BRomus PIANPIEUS ZZ_{abc} NL Dominance Test is >50% 7. AMSINCULA MENTIESII T NL Dominance Test is >50% 8. Difference IOZ_{abc} NL Prevalence Index is 43.0^3 Provide supporting data in Remarks or on a separate sheet) $Problematic Hydrophytic Vegetation' (Explain)$ Woody Vine Stratum Total Cover: IOZ_{abc} N/A Present. $No N$ X % Bare Ground in Herb Stratum O_{abc} % Cover of Bictic Crust M/A Yes_{abc}	2				/ OY:
4. Total Cover: M/A FAC species ZO $x 2 = \frac{1}{20}$ Herb Stratum Total Cover: M/A FAC species ZO $x 3 = \frac{60}{300}$ 1. BRonus (Hurdper CEUS) $SU2$ $x FAcu^+$ PL species $S = \frac{25}{25}$ (B) 2. Vull PIA MYUROS $ZS2$ $x FAcu^+$ Column Totals: MO $40S$ (B) 3. Hordpeurl MARINUM SSP. Guss. $ZO2$ $x FAcu^+$ Prevalence Index = $B/A =3.68$ (B) 4. Rum Ex CRASPUS MC FACu- Hydrophytic Vegetation Indicators: Domnance Test is >50% 5. Avenus PIANPRUS ZZ ML Prevalence Index is $s3.0^{1}$ Prevalence Index is $s3.0^{1}$ 6. BRomus PIANPRUS ZZ ML Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Prevalence Index is $s3.0^{1}$ Problematic Hydrophytic Vegetation' (Explain) Noody Vine Stratum Total Cover: $100%$ Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? No X % Bare Ground in Herb Stratum $O'C$ % Cover of Bictic Crust M/A Present? Yes No X	3		EACIM species	$\frac{2}{2}$ x 2 - Z	0
Total Cover: M/A Herb Stratum Total Cover: M/A FACU species Total Cover: M/A 1. BRemus HurpEACEUS 50.3° × FACU FACU species $5 \times 5 = 2.5^{\circ}$ 2. Vull P(A MYUROS 25.3° × FACU Column Totals: MO (A) 405° (B) 3. HorPEEUM MARLINUM SSP. GUS. 20.5° × FACU Prevalence Index = B/A = 3.68 BAC 4. Rum Ex CRISPUS 10.6° FACU Hydrophytic Vegetation Indicators: Dominance Test is >50% 5. AUENA BATEATA 2.75° ML Prevalence Index is $\leq 3.0^{\circ}$ Prevalence Index is $\leq 3.0^{\circ}$ 7. AMSINCULA MENTALESII T NL Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) 8. Total Cover: 100.2° Problematic Hydrophytic Vegetation' (Explain) Woody Vine Stratum Total Cover: $1/A$ Present: Hydrophytic 8 Total Cover: M/A Hydrophytic Vegetation Present: No X	۶		FAC species	$\frac{2}{20}$ x ² = 6	0
Herb Stratum UPL species $x 5 = 25$ 1. $BRcomus$ (HuRDEACEUS 50^{2}_{0} x FACU- 2. $Vulplander Plander Plande$	D Total Cover: M	<u> </u>	FACU species	75 x4= 3	00
1. BROMUS HURDEACEUS 50.2 × FACL Column Totals: IIO (A) 405 (B) 2. VULPIA MYURUS 25.6 × FACL Prevalence Index = B/A = 3.68 3. HORDEUM MARINUM SSP. Guss. 20.6 × FACL Prevalence Index = B/A = 3.68 4. RUMEX CRISPUS IOC FACU- Hydrophytic Vegetation Indicators: 5. AVENA BAREBATA 2.2 NL Dominance Test is >50% 6. BROMUS DIAMPRUS 2.2 NL Prevalence Index is \$3.0 ¹ 7. AMSINCULA MENTESII T NL Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) 8. Total Cover: IOC Problematic Hydrophytic Vegetation' (Explain) 1. NONE Total Cover: MAR 2. Total Cover: MAR Hydrophytic Vegetation Present? 8 Facun No X 96 Bare Ground in Herb Stratum % Cover of Bickic Crust MA	Herb Stralum	<u> </u>	UPL species	$\frac{1}{5}$ x 5 = $\frac{1}{2}$	25
2. VULP(A MYUROS 25% X FACU* 3. HoRDEUM MARINUM SSP. Guss. 20% X FAC 4. RUMEX CRISPUS 10% FACU- 5. AVENA BAREBATA 2% NL 6. BROMUS DIANDRUS 2% NL 7. AMSINCULA MENZIESII T NL 8.	1. BROMUS HORDEACEUS 50	22 × FACU-	Column Totals: //	0 (A) L	105 (B)
3. $HORDEUM MFLINUM SSP Guss.$ $ZOZ \times FAc$ Prevalence Index = $B/A = _S.60$ 4. $RUMEx CRISPUS$ $IOZ \times FAc$ Hydrophytic Vegetation Indicators: 5. $AVENA BAFBATA$ $ZZ \times NL$ Dominance Test is >50% 6. $BPenuls PIANPRUS$ $ZZ \times NL$ Prevalence Index is $\leq 3.0^{1}$ 7. $AMSINCMA MENZIESII$ T NL Prevalence Index is $\leq 3.0^{1}$ 8. $Total Cover: IOZ \times IESII$ T NL Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) 9. $Total Cover: IOZ \times IESII$ T NL Problematic Hydrophytic Vegetation '(Explain) 1. $NOME$ $NOME$ $Indicators of hydric soil and wetland hydrology must be present. 2. Total Cover: N/A Hydrophytic Vegetation 'Vegetation 'Vegetation 'Resent? Yes No X % Bare Ground in Herb Stratum OIE % Cover of Bictic Crust N/A Present? Yes No X $	2. VULPIA MYUROS 25	Vo X FACU*	_	2 (a
4. <i>RUMEX CRISPUS IQ76 FACW-</i> 5. <i>AVENA BAFBATA Z76 NL</i> Dominance Test is >50% 6. <i>BPenius DIANDRUS Z76 NL</i> Prevalence Index is \$3.0 ¹ 7. <i>AMSINCULA MENZIESII T NL</i> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 8.	3. HORDEUM MARINUM SSP. GUSS. ZL	22 × FAC	Prevalence Index	: = B/A =	0
5. AVENA BAPBATA Z/2 NL Dominance Test is >50% 6. BRomus PIANPRUS Z/2 NL Prevalence Index is ≤3.0 ¹ 7. AMSINCMIA MENZIESII T NL Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) 8.	4. RUMEX CRUSPUS 19	Vo FACW-	- Hydrophylic Vegetali	on Indicators:	
6. BRomus DIANPRUS 272 ML Prevalence Index is \$3.0° 7. AMSINCMA MENZIESII T ML Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) 8. Total Cover: 100% Problematic Hydrophytic Vegetation' (Explain) Woody Vine Stratum 1. None E Indicators of hydric soil and wetland hydrology must be present. 2. Total Cover: MA Hydrophytic Woody Vine Stratum % Cover of Bictic Crust MA	5. AVENA BARBATA 2	NL NL	- Dominance Test is	; >50%	
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Total Cover: 109% 1. NonE 2. Total Cover: Total Cover: N/A Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present. Total Cover: N/A Hydrophytic Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust	7. AMSINCHUA MENZIESII T	<u>PL</u>	Morphological Ada data in Remark	iptations (Provide : s or on a separate	supporting sheet)
Woody Vine Stratum Indicators of hydric soil and wetland hydrology must be present. I. PowE I. PowE I. PowE Indicators of hydric soil and wetland hydrology must be present. I. PowE Indicators of hydric soil and wetland hydrology must be present. I. PowE Indicators of hydric soil and wetland hydrology must be present. I. PowE	Total Cover: 100	2	Problematic Hydro	phytic Vegetation'	(Explain)
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2. Total Cover: MA Hydrophytic % Bare Ground in Herb Stratum % Cover of Biotic Crust MA Present? Yes No	1. NONE		 Indicators of hydric so he present 	and wetland hydr	ology must
Total Cover: MA Hydrophytic % Bare Ground in Herb Stratum % Cover of Biotic Crust MA Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust MA Present? Yes	2		- [
% Bare Ground in Herb Stratum 0% % Cover of Biotic Crust MA Present? Yes No X	Total Cover: <u>P//-</u>	<u>†</u>	Hydrophytic		
	% Bare Ground in Herb Stratum % Cover of Bid	tic Crust MA	Present? Ye	sNo	Х
Remarks:	Remarks:				
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SOIL

Sampling Point. 99

epth Matrix	Redox Features	<u> </u>		-	
iches) Color (moist) %	<u>Color (moist)</u> %	Y28	Loc	Texture	Remarks
0-16 107R 913 100/2				CL	
pe: C=Concentration, D=Depletion, RM=	Reduced Matrix. ² Location:	PL=Pore l	Lining, R(C=Root Chann	el, M=Matrix
dric Soll Indicators: (Applicable to all	LRRs, unless otherwise note	ed.)		Indicators (or Problematic Hydric Soils ³ :
Hislosol (A1)	Sandy Redox (S5)			1 cm M	LCK (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S5)			2 cm M	uck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral	(F1)		Reduce	d Verlic (F18)
Hydrogen Sulfide (24)	Depleted Matrix (53)	(12)		Cthard	Explain in Remarke)
A mailled Layers (AD) (LRR C)	Depleted Watrix (F3)	FEI		Other (i	Explain in Remarks;
Cepleted Below Dark Surface (A11)	Depleted Dark Surface	e (=7)			
Thick Dark Surface (A12)	Redox Depressions (F	-3)			
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	~*		³ indicators o	f hydrophylic vegetation and
Sandy Gleyed Matrix (S4)				wetland l	ydrology must be present.
strictive Layer (if present):					
Type NONE					
Depth (inches): MA					
				Hydric Soil I	Present? Yes No X
SCILS UNIFORM Itappic Scies	TITROUGITO +T	- ~	O E	Hydric Soil I	oresent? Yes <u>No X</u>
marks: SCILS UNIFORM IMARAC SCICS DROLOGY	THREWCHT +T	- Jun	O E	Hydric Soil I	oresent? Yes <u>No X</u>
There is a contract of the service o	A THERWOHN T	سر ۔	0 E	Hydric Soil I	Present? Yes No X
The series of th	a TIFRCUGIfurT	- ,	0 E	Hydric Soil I Fr I P P P P Second	Present? Yes <u>No X</u>
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The second secon	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates	, سم s (B13)	0 E	Hydric Soil I Second Second Second Second Dri Dri	Present? Yes <u>No X</u> Ary Indicators (2 or more required) Iter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) It Deposits (B3) (Riverine) inage Patterns (B10)
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policant/Owner: PGJE			State: CA	Sampling Point: <p< th=""></p<>
instigatorial P HURPI ESTAN T 4RA	USTRONG SO	tion Townshin Rai	ne ION OLU	SEC 17
districtions to the HILL SLOP	F Ic	cal relief (concave	CONVEY DODE ! NON	F Some (%)
androm (initialope, ienace, etc.). <u>AT-CS-17</u>	- Lat: 39*4	4' 11 1154 "	1210 55'	49 094 Datum /1
	2-152	1 11. 1.21		The Calum
oil Map Unit Name: <u>SEHORN CURT</u>	2-13/0		NVVI classing	
re climatic / hydrologic conditions on the site typical	for this time of year?	Yes No _	(If no, explain in F	Remarks.)
re Vegetation, Soil, or Hydrology	<u> significantly dis</u>	turbed? Are "	Normal Circumstances"	present? Yes 🗶 N
re Vegetation, Soil, or Hydrology 太	naturally proble	matic? (If ne	eded, explain any answe	ers in Remarks.)
UMMARY OF FINDINGS - Attach site	map showing s	ampling point l	ocations, transects	s, important feature
Hydrophytic Vegetation Present? Yes	NoX	Is the Sampled	Area	
Hydric Soil Present? Yes		within a Wetlar	nd? Yes	No X_
Wetland Hydrology Present?				
REMAINS. UPLAND SWALE - 1	CITENTIAL C	DERINP	FLOW IN R	ESPONSE to
STOPM EVEND, BUT NO E	WIPENCE	OF WER	AND IMPRO	1007
BELOW AVERAGE SE	ASONAL R	TINEALL		
EGETATION				
	Absolute [Dominant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species? Status	Number of Dominant S	Species
1. NONE			That Are OBL, FACW.	or FAC:
2			Total Number of Domi	nant 7
3			Species Across All Str	ata:
4			Percent of Dominant S	Species 7
Sanlino/Shrub Stratum	Cover. <u>r//a</u>		That Are OBL, FACW,	or FAC: 50/0
1 NONE		6 (K. 16)	Prevalence index wo	rksheet:
2			Total % Cover of:	Multiply by:
3.			OBL species	x 1 =
4			FACW species	x 2 =
5			FAC species 4	<u>5</u> x 3 = <u>135</u>
Tota	ii Cover: <u>MA</u>		FACU species 3	<u>8</u> x4= <u>152</u>
Herb Stratum	11000		UPL species 2	x5= <u>10</u>
1. HORDEUM MARINUM	- 45%	FAC	Column Totals: 8	<u>S (A)</u>
2. MEDICAGE POLYMORTHA		× FACU-	Prevalence Inde	x = B/A = 3.5
3. BREMUS HORDFACTUS		- parter.	Hydrophytic Vegetal	ion Indicators:
4. ERCOPICE BEFRYS		/-L	Dominance Test	is >50%
5			Prevalence Index	is ≤3.0 ¹
D			Morphological Ar	aptations' (Provide suon
··			data in Remar	ks or on a separate shee
0	al Cover 857		Problematic Hydr	ophytic Vegetation ¹ (Exp
Woody Vine Stratum				
1. Nort			Indicators of hydric s	oil and wetland hydrology
			be present.	
2	· · · · · N/A		Hydrophytic	
2Tot:	a Cover			
2Tota	A Cover of Right Co	ist N/A	Vegetation Present?	
2Tota % Bare Ground in Herb Stratum	% Cover of Biolic Cr	ust_~//A	Present?	/es No_ <u>X</u>

ofile Description: (Descri	be to the dept	h needed to docum	r Each read	ndicator	or contirm	the absence	of Indicator:	s.)
ches) Color (moist)	× %	Color (moist)	%	Type	Loc	Texture		Remarks
1-1 10YR4/2	2 100%	7.577-4/4	41%	<u> </u>	PC	CL	UERY	GRAVELLY
-18 10YR4/2	2 100%	-		• -	-	C	VERY	GRAVENT
pe: C=Concentration, D=1 dric Soll Indicators: (Ap)	Depletion, RM= plicable to all	Reduced Matrix LRRs, unless other	² Location wise not	: PL=Pox ed.)	e Lining, R	C=Root Chan Indicators	nel, M=Matrix s for Problem	atic Hydric Soils ² :
Histosol (A1)		Sandy Redd	ox (S5)			t cm i	Muck (A9) (LF	R C)
Histic Epipedon (A2)		Stripped Ma	trix (S6)	1.50		2 cm i	Миск (А10) (L	RR B)
_ Black Histic (A3)		Loamy Mus	ny Minèra Red Matrix	(F1) (=2)		Reduc	ced Vertic (F1	5) 17(23)
_ mydrogen sunde (A4) Stratifiert Lavers (A5) /1 F	RR C)	Depieted M	atrix (E3)	(-2)	342	360 P	(Explain in P	emarks)
1 cm Muck (A9) (LRR D) Depleted Below Cark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	rface (A11)) 1)	Redox Dark Depleted Dr Redox Depl Vernal Pool	t Surface (ark Surfac ressions (s (F9)	(F6) e (F7) F8)		² Inc.cators	s of hydrophyti	ic vegetation and
_ Sandy Gleyed Matrix (S4	4)					wetland	d hydrology m	ust be present.
astrictive Layer (if presen	t):							
Type. Nor ne	0							-
Depth (inches): 278 emarks: HEAVY (77FF UPPE)	2 18"	ILS WITH	AB	UN PA	T E OF	Hydric Soil	Present?	Yes No X ROUGHEUUT SOIL
Depth (inches): <u>>78</u> emarks: HEANY (TTHE UPPE) (DROLOGY	2 18 "	- NO 13	AB	ENCL	trit E of	Hydric Soil	Present? ム 7개/) デーイ C	Yes No X ROUGHEUT SOIL
Depth (inches): 278 emarks: HEANY C 7745 UPPEA (DROLOGY (etland Hydrology Indicate	2 18"	ILS WITH - NO B	AB	ENC L	tr T E OF	Hydric Soil	I Present?	Yes <u>No X</u> ROUGIFOUT SOIL Drs (2 or more required)
Depth (inches): 2/2 emarks: HEANY (TTHE UPPEA (DROLOGY Vetland Hydrology Indicator rimary Incicators (any one	2 /8 " 2 /8 " ors:	сся Шітн - µо /З	AB	ENCL	e ox	Hydric Soil GRAVER INTR Seco	I Present?	Yes No \times ROUGHAUNT SOIC Drs (2 or more required) B ⁺) (Riverine)
Depth (inches): 278 emarks: HEANY C TTHE UPPEN (DROLOGY /etland Hydrology Indicator rimary Indicators (any one Surface Water (A1)	2 / 8 '' 2 / 8 '' ors: rdicator is suff	- NO /3	(B11)	ENCL	trit E of	Hydric Soil	I Present?	Yes No \times ROUGHOUT SOIC Drs (2 or more required) B ⁺) (Riverine) posits (B2) (Riverine)
Depth (inches): emarks: HEANY (TTHE UPPE) (DROLOGY (etland Hydrology Indicator rimary Incicators (any one Surface Water (A1) High Water Table (A2)	Z / E " ars: rdicator is suff	- س م الجبر - س م الج (cient) 	(B11) st (B12)	ENCL	E OK	Hydric Soil	I Present? THA PIC ndary Indicato Nater Marks (I Sediment Dep Drift Deposits (Yes <u>No</u> Roucifier T Soic Soic Drs (2 or more required) B ⁻) (Riverine) Oslts (B2) (Riverine) (B3) (Riverine)
Depth (inches): emarks: ////////////////////////////////////	Z J C '' Dors: rdicator is suff	icient) Salt Crust Salt Crust Aquatic In	(B11) st (B12) vertebrate	с (B13)	E OF	Hydric Soil GRAVE IMPRO Seco Seco Seco Seco Seco Seco	I Present?	Yes <u>No</u> Roughtour Solt Solt Drs (2 or more required) B ⁺) (Riverine) oslts (B2) (Riverine) (B3) (Riverine) ems (310)
Depth (inches): emarks: ////////////////////////////////////	Z / C '' C / C '' ors: rdicator is suff	cient) Salt Crust Biotic Crust Aquatic In Hyorogen	(B11) st (B12) vertebrate Sulfide O	с / Рл Ери С / es (В13) dor (С1)	trif E of	Hydric Soil 67240E - 1/4777 	I Present?	Yes <u>No</u> Policifieu T Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc Solc
Depth (inches): emarks: ////////////////////////////////////	2 / 8 '' 2 / 8 '' ors: rdicator is suffi iverine) (Nonriverine)	icient) Salt Crust Salt Crust Aquatic In Hyorogen Cxidized f	(B11) st (B12) vertebrate Sulfide O Rhizosphe	s (B13) dor (C1) res along	E OF	Hydric Soil 6724 V Ex - 1/47 P, Seco - V - V - V - V - V - V - V - V	I Present? 77/7 Provide the second	Yes No \times POUCHFOUT SOIL Drs (2 or more required) B ⁻) (Riverine) OSIS (B2) (Riverine) (B3) (Riverine) ems (B10) fater Table (C2) face (C7)
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WETLAND DETER	RMINATION	DATA FORM -	Arid West Region
ject/Site: UNE 400-1401	City/C	County: You	O Sampling Date: 4/5/0
Dicant/Owner: PGJE			State: Sampling Point:
estigator(s): R. HUDDLESTON, T. ARMS	TRONG Secti	on, Township, Ran	ge: ION UN SEC11
dom (hillslope, terrace, etc.): HILL SLOPE	Loca	al relief (concave, co	nvex, none): NOVE Siope (%): 0-5
breaion (LRR):	Lat: <u>38°44</u>	9'11.160"	Long: 121° 58' 19. 629 "Datum: W65 &
I Map Unit Name: SEHORA CLAY	2-15%		NW classification:E
climatic / hydrologic conditions on the site typical for thi	s time of year?	Yes No 🗡	(If no, explain in Remarks.)
• Vegetation Soil or Hydrology	significantly distu	rbed? Are "N	Iormal Circumstances' present? Yes 🗡 No
Vegetation Soil or Hydrology X	naturally problem	natic? (If nee	ded, explain any answers in Remarks.)
	a houring oor	maling naint la	entione transacte important features at
UMMARY OF FINDINGS - Attach site map	showing sai		cations, transects, important reatures, etc
Hydrophytic Vegetation Present? Yes N	10 <u>×</u> 01	Is the Sampled	Area 42 Yes No X
Netland Hydrology Present? Yes N	10 X	within a Wetland	1? Yes No
WETCHND HADROLGG/ BECCU AVERAGE RAINFALL	TO DATE	F	
	Absolute Do	minant Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover Sp	becies? Status	Number of Dominant Species
1. NOME			That Are OBL, FACW, cr FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4 Total Cov/	N/A		Percent of Dominant Species
Sapling/Shrub Stratum	<u></u>	20	That Are OBL, FACW, of FAC (Ave
1. MONE		<u></u>	Prevalence Index worksheet:
2			Total % Cover of:Multiply by:
3			OBL species X1 =
4			FAC species $55 \times 3 = 150$
5Total Cov	Pr. MA	2	FACU species 20 $x_4 = 80$
Herb Stratum	<u> </u>		UPL species $5 \times 5 = 25$
1. HOPPEUM MARINUM	_ 30%_	× FAC	Column Totals: 75 (A) 255 (B
2. MERICAGO POLYMORPHA	070-	× FACU-	3.4 255
3. HTPOCHAERIS PADICATA	<u> </u>	PL	Hydrophytic Veretation Indicators:
4. <u>CROPIUM BOTTETS</u>		DBI	Dominance Test is >50%
5. TLAGICBOTHICTS STIFFINITY	$-\frac{1}{\tau}$	FACW+	Prevalence Index is ≤3.0 ¹
7 POA ANNUA	T	FAC	Morphological Adaptations ¹ (Provide supporting
8. LUPIPUS BICCLOR	T	NL	data in Remarks or on a separate sheet)
Total Cov	ver: 80%		Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum			Indicators of hudde coll and watter d hudden
Trood The Surter			indicators of nyone soil and wetland nydrology must
1. North			be present.
1. NOME			be present.
1. <u>/////E</u> 2 Total Co	ver: <u>N/A</u>		be present. Hydrophytic Vegetation
1. NONE 2 7 8. Bare Ground in Herb Stratum 20% % Cor	ver: N/A	st_ <i>M/A</i>	be present. Hydrophytic Vegetation Present? Yes No
1. NOME 2. Total Co % Bare Ground in Herb Stratum 20% % Co Remarks: SPARSE - DESCHAMPSIA	ver: N/A ver of Bloxic Crus DAnt110	t <u>MA</u>	Hydrophytic Vegetation Present? Yes No X (Free cw), Curron MULTIFLEROM (Free
1. NoriE 2. Total Co % Bare Ground in Herb Stratum 20% % Co Remarks: SPARSE - DESCHAMPSIA AND PSILOCAPPIALS BRENIS	ver: N/A ver of Biolic Crus DANTION SSIMUS (019	t <u>NA</u> NOIDES (FA RC) ALSC ,	Hydrophytic Vegetation Present? Yes No X (FARCESENT
1. NOME 2. Total Co % Bare Ground in Herb Stratum 20% % Co Remarks: SPARSE - DESCHAMPSIA AND PSILOCAPPITUS BRENIS - SPARSE VERNAL PLANTS PIRE.	ver: <u>N/A</u> ver of Blotic Crus <i>PATTS or</i> <i>rs/Mus (04</i> SSTT / N	A <u>MA</u> MOIDES (FA ALSC , THIS AIR	Hydrophytic Vegetation Present? Yes No X (CW), CULIUM MULTIFLOFUM (FA PRESENT EA - MOSTY GRASSES

-

1

pth <u>Matrix</u>		Redox	Features	i			
color (moist)	<u>%</u>	Color (moist)	%	Type	Loc	Texture	Remarks
-3 104R4/2	95%	7.5729/4	5/0	<u> </u>	JEC	SCL	FIRE-MED GRAVEL
15 10714/2	60%					SCL	GRAVELLY - MIXED
107R4/1_	20%						Soles in Titis
7.5724/4	15%						Inchron
107R2/1	5%						
e: C=Concentration D=Depl	letion. RM=	Reduced Matrix.	Location	PL=Por	e Linina. A	C=Root Cha	nnel M=Malrix
ric Soil Indicators: (Applica	able to all t	RRs, unless other	wise note	ed.)	g	Indicator	s for Problematic Hydric Soils ² :
Histosol (A1)		Sandy Reco	x (S5)			1 cm	Muck (A9) (LRR C)
Histic Epipedon (A2)		Stripped Ma	trix (S6)			2 cm	Muck (A10) (LRR B)
Black Histic (A3)		Learny Muck	ry Mineral	I (F1)		Redu	uced Vertic (F18)
Hydrogen Suttide (A4)		Loamy Gley	ed Matrix	(F2)		Red	Parent Material (TF2)
Stratified Layers (A5) (LRR C	-1	Redoy Dark	unx (F3) Surface /	FSI		Olhe	r (Explain in Remarks)
Depleted Below Dark Surface	e (A11)	Depleted Da	rk Surfac	a (57)			
Thick Dark Surface (A12)		Redox Depr	essions (F	F8)			
Sandy Mucky Mineral (S1)		Vernai Pools	s (F9)			³ Indicator	s of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)						wetlar	nd hydrology must be present.
rictive Layer (if present):							
in a set							
Type: <u>NONE</u> Depth (inches): 715 narks. - Saus Be Empent in Th	sccw E M	3" -MI) 1744 AND	(ED Au	501C	Roof	Hydric So cope_s	No N
Type: NONE Depth (inches): 715 narks: 5015 BB 5016 APPEAT	Secus E M RS TE	3" -MI) THY AND MEET	(FD ALC DEPL	5010 ~~C 1ETE	Rocy	Hydric So Core S Core S Hydrogen Matrice	NI Present? Yes <u>X</u> No WITH CONCENTRATION WNELS X IMPICATOR
Type: <u>NONE</u> Depth (inches): <u>715</u> narks. - Saw Bb Saw DENT IN TH Sail <u>APPEAT</u> DROLOGY	Sccw TE MA RS TZ	3" -MI) THY AND MEET	CED ALC DEPL	5010 ~~C ÆÆ	roof	Hydric So co, e, s - ci, i MATPO	No N
Type: <u>NoNE</u> Depth (inches): <u>715</u> narks. - Saus Be Empent in Th Soil <u>APPEA</u> DROLOGY tland Hydrology Indicators;	Secus E MA RS TZ	3" -MI) THY AND MEET	RED ALC DEPL	5010 ~~C ÆÆ	, Ca Rocj	Hydric So - CHA A- MAT PCI Seco	No N
Type: <u>NoNE</u> Depth (inches): <u>715</u> narks. 5012 SALS BE SUIDENT IN THE SOIL <u>APPENT</u> DROLOGY Iland Hydrology Indicators: nary Indicators (any one indicators: Surface Water (A1)	Seccus TE MA TES TE ator Is suffic	3" - MI) TRIX AND MEET	(F) Az-0 DEPL	Soll Soll FTE	, ca poor	Hydric So - CIJ A- MAT-PI Seco	will Present? Yes X No will Present? Yes X No will Present? Yes X No will Present? Concrete with the present of t
Type: <u>NoNE</u> Depth (inches): <u>715</u> narks. 5 Sarks BB Sarpert IN TH SOIL <u>APPEAN</u> DROLOGY Iland Hydrology Indicators: nary Indicators (any one indicators: Surface Water (A1) Hich Water Table (A2)	SCCW E MA RS TE ator is suffic	3 " - M/) TRIX AND MEET Sient) Salt Crust (Biotic Crust	(311) (312)	SOIL SOIL BAC	e ca poor	Hydric So - CIJ AT MATTRI Seco	A constant of the second of th
Type: <u>NoNE</u> Depth (inches): <u>715</u> narks. <i>5012 BB</i> <i>5012 APPEAT</i> DROLOGY tland Hydrology Indicators: nary Indicators (any one ind ci Surface Water (A1) High Water Table (A2) Saturation (A3)	SCCW RE MA RS TZ ator Is suffic	$3^{\prime\prime} - M/)$ $FF4 \times FND$ $MEET$ sient) $- Salt Crus; ($ $- Biotic Crus; ($ $- Aquatic inv$	(<i>FD</i>) <i>Az-c</i> <i>DEPL</i> (311) t (312) ertebrate	50/2 5~C ETE 5 (B13)	Rocy	Hydric So CIJAT MATRI Secu	il Present? Yes X No WITH CONCENTRASTION WELS Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dnt Deposits (B3) (Riverine) Drainage Patterns (B10)
Type: <u>NoNE</u> Depth (inches): <u>715</u> narks. <u>5012</u> <u>5012</u> <u>5012</u> <u>5012</u> <u>5012</u> <u>APPEAT</u> DROLOGY tland Hydrology Indicators: nary Indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriveri	Seccus TE MA TES TE ator Is suffic	3 ⁽¹ - M/) THY MND MEET Selt Crust (Selt Crust (Selt Crust (Aquatic Inv Hydrogen S	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	50/2 5~6 ETE s (B13) dor (C1)	, ca poor	Hydric So CIA AA MAT PEI Second	il Present? Yes <u>X</u> No <i>WITHF CONCENTRATION</i> <i>WNELS</i> <i>Conderv Indicators (2 or more required)</i> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dnt Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: Depth (inches): marks: 	Seccus TE MA RS TE ator Is suffic ine) nriverine)	3 ^{°′′} - M/) THIY AND MEET Selt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R	(F) Azo (E) (311) t (312) ertebrate Sulfide Oc hizospher	So/C FTC s (B13) dor (C1) res along	Living Rox	Hydric So - CIJ A- - CIJ A- - Secu 	ill Present? Yes <u>No</u> <i>WITHF ConcEntRATION</i> <i>MEL-5</i> <i>Conderv Indicators (2 or more required)</i> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dnt Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
Type: <u>Norve</u> Depth (inches): <u>715</u> marks. <u>5016</u> <u>5016</u> <u></u>	Seccus RE MA RES TE ator is suffic ine) nriverine) rine)	3 ⁽¹ - M/) THY AND MEET Selt Crus: Biotic Crus Aquatic Inv Hydrogen S Cxidized R Presence of	(F) March (S11) t (S12) rertebrate Sulfide Oc hizospher of Reduce	So/C Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solutio	Living Rox	Hydric So cope s in Cope s in MAT [P] Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Seco	il Present? Yes <u>No</u> <i>WITH CONCENTRATION</i> <i>NELS</i> <i>Condenv Indicators (2 or more required)</i> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dn't Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Type: <u>NoNE</u> Depth (inches): <u>715</u> narks. <u>5016</u> <u>5016</u> <u>5</u>	Seccus RE MA RS TZ ator Is suffic ine) nriverine) rine)	3 ⁽¹ - M/) TRIX AND MEET MEET Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror	(B11) t (B12) ertebrate: Sulfide Oc hizospher of Reduce n Reductio	s (B13) dor (C1) res along rd Iron (C on in Flow	Living Rox 4)	Hydric So - Cr4 A- - Cr4	il Present? Yes X No WITH CONCENTRATION WELS Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dnt Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Seturation Visible on Aerial magery (C9)
Type:	Seccus TE MA RS TE ator Is suffic ine) nriverine) rine)	3 " - M/) THEET MEET Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Cxidized R Presence C Recent Iror Cther (Exp	(B11) t (B12) ertebrate: Sulfide Oc hizospher of Reduce of Reduce lain in Re	So/C Some s (B13) dor (C1) res along cd Iron (C on in Plov marks)	Living Rox 4) ved Soils ()	Hydric So - CIJ A- - CIJ	il Present? Yes X No WITH CONCENTRATION WAELS Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dat Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Shallow Aquitard (D3):
Type: Norve Depth (inches): 715 marks: 5015 Soil: APPEAT Soil: APPEAT PROLOGY Itand Hydrology Indicators: mary Indicators (any one indicators: mary Indicators (any one indicators: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverial Sediment Deposits (B2) (Nonriverial Surface Soil Cracks (86) Inundation Visible on Aerial I Water-Stained Leaves (B9)	Seccus RE MA RES TE ator is suffic ine) nriverine) rine)	3 ¹¹ - M/) THY AND MEET Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Cther (Exp	(F) (E) (B) (B) (B) (B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	So/C Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solutio	Living Rock 4)	Hydric So - CIJ A -	ill Present? Yes <u>X</u> No <i>WITHF ConcentRATION</i> <i>MAEL-S</i> <i>Condenv Indicators (2 or more required)</i> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dnt Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Seturation Visible on Aerial magery (C9) Shallow Aquitard (D3): FAC-Neutral Test (D5)
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ype: <u>PONE</u> epth (inches): <u>715</u> arks: <u>56465</u> BE <u>MDENT IN THE</u> <u>5016</u> <u>APPEAN</u> ROLOGY and Hydrology Indicators: <u>ary Indicators (any one indica</u> Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriver Surface Soil Cracks (B2) (Non Drift Deposits (B3) (Nonriver Surface Soil Cracks (B6) In undation Visible on Aerial I Water-Stained Leaves (B9) I Observations: ace Water Present? Y	Seccus FE MA RES TZ ator Is suffic ine) inriverine) rine) Imagery (B7 (es 1)	3 ⁽¹ - M/) fTHY AND MEET Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Cther (Exp No X Depth (inc	(311) t (312) ertebrate: Sulfide Oc hizospher of Reduce n Reduction lain in Re	s (B13) dor (C1) res along rd Iron (C on in Flow marks)	Living Rox 4) wed Soils ()	Hydric So = 0, E, S = 0, H, A - 0, H, A	il Present? Yes X No WITH CONCENTRATION WELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS CONTRACTOR MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS MARCELS
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Type:	Seccus TE MA RES TE ator is suffic ine) nriverine) rine) Imagery (B7 (es) (es) (es) (es) (es)	3 '' - M/) THIN AND MEET Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence C Recent Iror Cher (Exp No X Depth (inc No X Depth (inc	Ball) (B11) t (B12) ertebrate: Sulfide Oc hizosphere of Reduce n Reduction lain in Re hes): hes): hotos, pro-	So/C Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solutio	Living Rox 4) wed Soils (2) Wett: spections),	Hydric So - CIJ A- - CIJ	il Present? Yes X No WITH CONCENTRATION WIELS Condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dn't Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Shallow Aquitard (D3): FAC-Neutral Test (D5) gy Present? Yes No X
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ype: Norve Depth (inches): 715 harks: 5015 Sold APPEAT Sold APPEAT ROLOGY Iand Hydrology Indicators: hary Indicators (any one Indicators: Depth (Inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverial Sediment Deposits (B2) (Nonriverial Sediment Deposits (B2) (Nonriverial Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) d Observations: ace Water Present? Y er Table Present? Y gration Present? 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Hydric So copers in Copers in Copers in Copers in Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second	il Present? Yes <u>X</u> No <i>WITHF CONCENTRATION</i> <i>WNEL-5</i> <i>X CONCENTRATION</i> <i>MNEL-5</i> <i>X CONCENTRATION</i> <i>Mater Marks</i> (B1) (Riverine) Sediment Deposits (B2) (Riverine) Dn't Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Shallow Aquitard (D3): FAC-Neutral Test (D5) gy Present? Yes <u>No</u> <i>POSSIBUE</i>

vestigator(s): P. HUDDLESTUN, T. ARM.	STRENG Sec	ction, Tow	nship, Rang	ge: 10 010	J SEC 11
ndform (hilislope, terrace, etc.): TERACE	Loo	ca) relieť (concave, co	onvex, none): _corcfr	Siope (%):
	Lat: 38 4	4'10.8	389"	Long: 121° 56' 20.	957 Datum: <u>M</u>
il Map Unit Name: SEHOPN CLAT Z.	-15%			NW classificat	ion: NONE
e climatic / hydrologic conditions on the site typical for th	is time of year?	Yes	No >	(If no, explain in Rer	narks.)
e Venetation Soil or Hydrology	significantly dist	turbed?	Are "N	Iormal Circumstances" pre	esent? Yes 🗶 N
re Venetation Soil or Hydrology	naturally proble	matic?	(If nea	ded, explain any answers	in Remarks.)
	chowing cr	amalia	noint lo	options transacts	important footure
UMMARY OF FINDINGS - Attach site map	showing se	ampinių	j point lo	cations, transects,	important reature
Hydrophytic Vegetation Present? Yes i	vo	Is the	Sampled	Area	
Hydric Soil Present? Yes X	۹٥ <u> </u>	withi	n a Wetland	d? Yes X	No
Wetland Hydrology Present? Yes Yes	10				
Remarks: - LOW DEPPESSION AT	END OF	e sh	ALE,	ADJACANT TO	JERICATION
CANAL - PROBABLE SEEPAGE	E IN TH	115 1	OCATIO	ب م	
DIFILE - THE DABLE SERVICES					
-BELOW MURANE GANNE	1m				
EGETATION	Absolute F	Cominant	Indicator	Dominance Test works	heet.
Tree Stratum (Use scientific rames.)	% Cover S	Species?	Status	Number of Dominant Spi	cies
1. NONE				That Are OBL, FACW, or	FAC: 3
2				Total Number of Domina	nt .
3				Species Across All Strata	a: <u>3</u>
4				Percent of Dominant Sne	ecies
Total Cov	er: <u>M/A</u>			That Are OBL, FACW, or	FAC: 100%
				Prevalence Index work	sheet:
2				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4.				FACW species	x 2 =
5.				FAC species	x 3 =
Total Cov				FACU species	x 4 =
Herb Stratum				UPL species	x 5 =
1. ELEOCHARIS MACROSTACITY	4 15 -	<u>×</u>	OBL_	Column Totals:	(A)
2. GLYCERIA OCCIDENTALIS	_ 15	~	EA-	Prevalence Index	= B/A =
3. HERPEUM MARINUM		X	Ene .	Hydrophytic Vegetation	n Indicators:
4. CKYPSIS SCHORNOVES			El 1.1.	Cominance Test is 2	>50%
DANTALA LANCELATA			FAT -	Prevalence Index is	≤3.0 ¹
7			<u></u>	Morphological Adap	tations ¹ (Provide suppo
8				data in Remarks	or on a separate sheet
Total Con				Problematic Hydrop	hytic Vegetation ¹ (Expla
Woody Vine Stratum					
1. NORE		· • · · · · · · · · · · · · · · · · · ·		Indicators of hydric soil	and wetland hydrology
2				ue present.	
	ver. <u>N/A</u>			Hydrophytic	
Total Co		a al	4	Present? Yes	X No
Total Co % Bare Ground in Herit Stratum 50% % Co	ver of Biotic Cru	ISL MII		1.0.0	
Notal Co % Bare Ground in Herb Stratum 9% Co	ver of Biotic Cru	151 <u>- 77</u>	·		

SOIL	l
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19

<u>Cover (moist)</u> % <u>Coler (moist)</u> % <u>Type</u> <u>Lee</u> <u>Cover (moist)</u> % <u>Coler (moist)</u> % <u>Type</u> <u>Lee</u> <u>Cover (moist)</u> % <u>Cover (moist) % <u>Cover (moist)</u> % <u>Cover (moist)</u> % <u>Cove</u></u>	SCL Remarks
0-8 2.57412 85% 2.576/3 15% D M -16 (LEY6/567 75% 1078576 25% C M	<u></u>
2-16 (LEY 6/567 75% 107R576 25% C M	SCL
ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, R ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	RC=Rod Channel, M=Matrix. Indicators for Problematic Hydric Soils ³ :
_ 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 Sullide (A4) Loamy Gleyed Matrix (F2)	Ked Parent Material (TF2)
1 pm Muck (A9) (LRR C) Redox Dark Surface (F6)	
Depleted Balow Dark Surface (A11) Depleted Dark Surface (F?)	
Thick Dark Surface (A12) Redox Depressions (F8)	
Sandy Mucky Mineral (S1) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wet and hydrology must be present.
Restrictive Layer (if present):	
Type: P/E	
Depth (inches): 716	Hydric Soil Present? Yes Xes No
YDROLOGY	
Netland 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) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (83) (Riverine)
X Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
	ots (C3) Thin Muck Surface (C?)
Sediment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Living Rcc	Cravfish Burrows (C8)
Sediment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Living Roc Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	
Sediment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Living Roc Drift Deposits (B3) (Nonriverine) Surface So'l Cracks (B6) Recent Iron Reduction in Plowed Soils (C)	CS) Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) (Nonriverine) Drift Deposits (33) (Nonriverine) Drift Deposits (33) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Cxidized Rhizospheres along Living Roc Recent Iron Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Inundation Visible on Aerial Imagery (B7)	CS) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	CS) Saturation Visible on Aerial Intragery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sediment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Living Roc Drift Deposits (B3) (Nonriverine) Surface So'l Cracks (B6) Recent Iron Reduction in Plowed Soils (C inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface So'l Cracks (B0)	CS) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sediment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Living Roc Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? YesNoXDepth (inches):	CS) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sediment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Living Roc Drift Deposits (33) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (39) Field Observations: Surface Water Present? YesNo_XDepth (inches): Water Table Present? YesNo_XDepth (inches):	CS) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
	CS) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) and Hydrology Present? Yes _ x No
Sediment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Living Roc Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (39) Other (Explain in Remarks) Field Observations: Depth (inches): Surface Water Present? Yes No Xater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetta (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), Describer (Stream gauge, monitoring well, aerial photos, previous inspections),	CS) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) and Hydrology Present? Yes _ x No If available:
Sediment Deposits (B2) (Nonriverine)Cxidized Rhizospheres along Living RocDrift Deposits (B3) (Nonriverine)Presence of Reduced Iron (C4)Surface So'l Cracks (B6)Recent Iron Reduction in Plowed Soils (Cinundation Visible on Aerial Imagery (B7)Other (Explain in Remarks)Water-Stained Leaves (B9) Field Observations: Surface Water Present? YesNoDepth (inches): Water Table Present? YesNoDepth (inches): Saturation Present? YesNoDepth (inches): Water Construction Present? YesNoDepth (inches): Wetta (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	CS) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) and Hydrology Present? Yes _ x No If available:
	CS) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) and Hydrology Present? Yes <u></u> No If available:
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Sediment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Living Roc Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (r inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Ves Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Child Class capillary fringe) Depth (inches): Describe Recorded Cata (stream gauge, monitoring well, aerial photos, previous inspections), Remarks: Solids Solids SATURATED APPEARS TO RECUEUE SEAPABE TRACK	CS) Saturation Visible on Aerial Imagery (C9)

Project/Site: LINE 400 / 401 City/County: Ya	LO Sampling Date: 3/28/08
Applicant/Owner: PGIE	State: <u>A</u> Sampling Point: <u>5</u> P13
Investigator(s): R. HUPPLESTEN Section, Township, Rai	nge: ICN OLW SEC Z
Landform (hillstope terrace etc.): TERRACE Local relief (concave, o	convex, none): CONCAVE Slope (%): 0-2
Subragion (LRR): C Lat: 38° 44′ 13.278″	Long: 12/° 53' 16, 116" Datum: W65 84
Salling Light Name: SEHORN (LAT Z-15%	NWI classification: NOTE
As all map of the relation of the site typical for this time of year? Yes X No	(If no explain in Remarks)
Are dimatic r hydrologic conditions on the site typical of this time of year 1 res no	
Are vegetation, Soli, or Hydrology significantly distribute Are	aded evolution and angulars in Remarks)
Are vegetation, Soli, or Hydrology naturally procentate? (if the	eueu, explain any answers in ruemarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Hydric Soil Present? Yes X No within a Wetland Wetland Hydrology Present? Yes X No within a Wetland	I Area nd? Yes <u>X</u> No
Remarks: BROAD SHALLOW TOPOGRAPHIC PEPRESS SUPPORT SFASONAL SATURATION / INUNPA	NON - APPEARS TO MON
VEGETATION	
Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific harnes.)	Number of Dominant Species That Are OBL_EACW_or EAC: 4 (A)
3	Species Across All Strata: 4 (B)
4	
Total Cover: <u>r//4</u>	That Are OBL, FACW, or FAC: 1003 (A/B)
Sapling/Shrub Stratum	
1. NONE	Total % Court of Multiply but
2	OBL species x1 =
3	FACW species x2 =
4	FAC species x3 =
5 Total Cover: N/A	FACU species x 4 =
Herb Stralum	UPL species x 5 =
1. LOLIUM MULTIFLORUM SOL × FAC	Column Totals: (A) (B)
2. HERDEUM MARINUM SSP. GUS 15% × HAC	Devision of the last of D(A)
3. PLAGIOBOTHPEYS STIPITATUS 15/6 × OBL	Prevalence index = B/A =
4. FRYNGIUM SP ISTO K (FACW)	V Dominance Test in 250%
5. MYOSURUS MINIMUS 1 OBL	Prevalence Index is $<3.0^{1}$
6. <u>PS/LocAZTIHUS DEEUSSIFIUS</u> <u> </u>	 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8 Tatal Course 95% +	Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum	
1. NONE	¹ Indicators of hydric soil and wetland hydrology must
2	be present.
Total Cover:	Hydrophytic Venetation
% Bare Ground in Herb Stratum 25% % Cover of Biotic Crust 0%	Present? Yes K No
Remarks: - SILIFT IN PUT COMMUNITY TOWARD	S MORE HYDRARIUM
RILATS IN TTHIS AREA. STATE ANADACTIC	IF PAIL O
PUTTO TO THE STORE CATIFICASTIC	VEPPOR SPECIES
114ESENT	

(and an	Matrix		Redo	x Features	l.				
ncnes)	Color (moist)	%	Color (moist)	_%	Type	Loc ²	Texture	Remarks	
5-7*	107R4/2+	95%	10729/6	5/0	<u> </u>	м	CL		
7-16*	107R412+	100%					cuty_		
			Peduced Matrix	21 ocation:	PI =Por		C=Root Channel	M=Matrix	
dric Soil	Indicators: (Applica	able to all L	RRs, unless other	wise note	d.)	C Lin Ig.	Indicators for	Problematic Hydric Soils ³ :	
Histosci Histic E Black H Hydroge Stratifie 1 cm Me Deplete Thick D Sandy M	i (A1) pipedon (A2) istic (A3) an Sulfide (A4) d Layers (A5) (LRR C uck (A9) (LRR D) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1)	C) e (A11)	Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Da Redox Depr Vernal Pool	ox (S5) htrix (S6) ky Mineral ed Matrix (atrix (F3) Surface (F ark Surface ressions (F s (F9)	(F1) (F2) F6) e (F7) 78)		1 cm Mucl 2 cm Mucl 2 cm Mucl Reduced N Red Parer Other (Exp	k (A9) (LRR C) k (A1C) (LRR B) Vertic (F18) nt Material (TF2) plain in Remarks)	
Sandy Gleyed Matrix (S4)							wetland hydrology must be present.		
Type: Depth (in emarks:	Layer (in present): NE ches): 716 EUIDENCE	or .	REPOX IN	קיין אי	ER	7" .	Hydric Soil Pre	esent? Yes <u>×</u> No <u> </u>	
DROLO	drology Indicators:						Secondar	v Indicators (2 or more required)	

Yes _____ No X Depth (inches): _____

Yes _____ No 🗡 Dep:n (inches): ____

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

Algue matting present, slight topographic depression

Water Table Present?

Saturation Present? (includes capillary fringe)

Remarks:

Wetland Hydrology Present? Yes X No

2.12

Project/Site: LIME 400/ 401	City/County: Yolo Sampling Date: 3/28/08
Applicant/Owner: PG \$ E	State: CA Sampling Point: SP 14
Investigator(s): R. HUDPLESTON	Section, Township, Range: 10 N OLW SEC Z
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): NONE Slope (%): 0 - 2
Subregion (LRR): Lat:	8° 44 13. 198" Long: 121° 58' 16. 549" Datum: W65 84
Soil Map Unit Name: 5EItORN CUT Z-15%	NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔭 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	In the Sempled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No	
Remarks: UPLAND SAMPLE POINT AD	TACENT TO PEPEESSONAL AREA

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1. NONE		<u>.</u>		That Are OBL, FACW, or FAC	: <u> </u>
2.				~	
3				Species Across All Strata:	3 (1)
·				Species Across Air Strata.	(0)
4 T.L.O.	SI/A			Percent of Dominant Species	29
I 012I Cover:	~//4			That Are OBL, FACW, or FAC	:: <u> </u>
				Prevalence Index worksheet	··
				Total % Course of	
2					
3				OBL species	x 1 =
4				FACW species	x 2 =
5				FAC species	x 3 =
Total Cover:	NA			FACU species	x 4 =
Herb Stratum				UPL species	x 5 =
1. VULPIA MYUROS	20%	×	FAcu*	Column Totals:	(A) (B)
2. AVENA BARBATA	20%	×	PL		
3. TAENIATHERUM CAPUT-MEDUSA	E 20%	×	NL	Prevalence index = B/A	=
4 ERODIUM CICUTARIUM	15%		NL	Hydrophytic Vegetation Indi	cators:
5 BROMMS HERDEALEUS	5%		FACU-	Dominance Test is >50%	
G HICIA SO	5%		~	Prevalence Index is ≤3.0 ¹	
- United States	59			Mombological Adaptation	s ¹ (Provide supporting
1. Lupipedi Bicocoje	2/4			data in Remarks or on	a separate sheet)
8	0.0			Problematic Hydrophytic	Vegetation ¹ (Explain)
Total Cover	70/0	-		A CONTRACTOR OF A D CONTRACTOR	, , , , , , , , , , , , , , , , , , ,
woody vine Sua.un				¹ Indicators of bydric soil and w	interest and budralacia must
1. NONE	-03			be present.	venand nyucology most
2					
Total Cover	:_ <u>~/A</u> _			Hydrophytic	
% Bare Groupd in Herb Stratum 10 % Cover	of Biotic C		4	Present? Yes	NoX
Remarks: TYPICAL ANNUAL GRAS	ssuri	DITA	BITAT	- FOR THE AR	EA

0	~		
3	U	I	1
-	~		_

leath	Matrix		Redo	x Feature	3			
nches)	Color (moist)	%	Cclor (moist)	%	Type'	_Loc ²	Texture	Remarks
0-7	10784/3	100%	-		-		CL.	FIME ROOTS
7-16	107124/3	100%		-	-	-	CLA7	
ype: C=Cc ydric Soil I _ Histosol _ Histic E: _ Black Hi _ Hydroge _ Stratified	oncentration, D=Depl Indicators: (Applica (A1) bipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) (LRR C	etion, RM= able to all I	Reduced Matrix. RRs, unless othe Sandy Red Stripped M Lcamy Mur Lcamy Gle Depleted N	² Location erwise not lox (S5) atrix (S6) cky Minera yed Matrix Matrix (F3)	ed.)	e Lining, F	RC=Rcot Char Indicators 1 cm 2 cm Redu Redu Red F Other	nnel, M=Matrix. s for Problematic Hydric Soils ³ : Muck (A9) (LRR C) Muck (A10) (LRR B) ced Vertic (F18) Parent Material (TF2) (Explain in Remarks)
 Territorio Depietes Thick Da Sandy M Sandy G estrictive I 	d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Sleyed Matrix (S4) Layer (if present):	Depleted D Redox Dep Vernal Poo	bark Surface pressions (pis (F9)	(F8) F8)		³ indicators wetland	of hydrophytic vegetation and hydrology must be present.	

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) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livi	ng 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 V sible on Aerial Imagery (C9)
Inundation V sible 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 <u>*</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No 🗶
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks: UPLAND GRASSLAND -NC ENDE INUNPATION	ENCE OF SATURATION OF

DRAFT

Delineation of Waters of the United States

PG&E Line 407 Natural Gas Transmission Pipeline

Placer, Sacramento, Yolo, and Sutter Counties, CA

August 2007



Prepared for:

TRC Attention: Benjamin Hart 80 Stone Pine Road, Suite 200 Half Moon Bay, CA. 94019

Prepared by:



CONSULTING, INC. 117 Meyers Street, Suite 110, Chico, CA 95928 Phone (530) 343-8327 Fax (530) 343 8312

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Appendix A –Official Soils Series Descriptions

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 $\label{eq:constraint} Appendix \ C-Delineation \ Acreage \ Totals$

Attachment A – Wetland Delineation Map

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Table 1.	Waters of the U.S. Totals Delineated within the PG&E Line 407 Survey Area 11
Table 2.	Soils Found within the PG&E Line 407 Survey Area
Figure 1.	Location Map3
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DRAFT DELINEATION OF WATERS OF THE UNITED STATES

PG&E Line 407 Natural Gas Transmission Pipeline

Placer, Sacramento, Yolo, and Sutter Counties, CA.

Introduction and Project Location

Gallaway Consulting, Inc. conducted a delineation of Waters of the U.S. for an approximately 26-mile (3524-acre) survey area located in Placer, Sacramento, Yolo, and Sutter Counties, California (**Figure 1**). The PG&E Line 407 project (Project) is located in portions of the Woodland, Grays Bend, EL Dorado Bend, Knights Landing, Verona, Rio Linda, Roseville, Citrus Heights, Pleasant Grove, and Taylor Monument U.S. Geological Survey (USGS) 7.5 minute quadrangle maps (refer to **Figure 1** for sections, townships, and ranges). Surveys were conducted on July 21 and 24-28, and August 10 and 25, 2006, May 3, 8, and 14, June 21, and July 31, 2007 by biologists Brooks Taylor, Chelsea Kramer, Jody Gallaway, and Breanna Owens and botanists Shirley Innecken and Elena Alfieri. The surveys involved an examination of botanical resources, soils, hydrological features, and determination of wetland characteristics based on the United States Army Corps of Engineers Wetlands Delineation Manual (1987); the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (2006); and, the U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook (2007).

The PG&E Line 407 is part of a project to provide natural gas to communities in the Sacramento River Valley, which is an area of rapid growth. The survey area is composed of a 500-foot buffer on either side of the Project alignment. Due to the large size of the project, it will be distinguished as PG&E Line 407 West (approximately 14 miles in length) and PG&E Line 407 East (approximately 12 miles in length). The PG&E Line 407 West (West Project) will run from a tie-in point with proposed PG&E Line 406 and existing PG&E Line 172A near Highway 5 north of the City of Woodland to a tie-in point with proposed PG&E Line 407 East (East Project) at the corner of Powerline and Riego roads. The East Project then splits, running south along Powerline Road to West Elverta Road, and east along Riego Road/Baseline Road to Fiddyment Avenue. From the western tie-in, the line will run along the edges of fields and parallel a series of county roads and irrigation canals, crossing Knights Landing Ridge Cut, the Yolo Bypass, and the Sacramento River before reaching the eastern tie-in (**Figure 1**).

This report addresses the nature, jurisdictional status, and landscape position of the wetlands in the survey area; it does not provide information suitable for structural analysis of soils for construction purposes, flood plain delineation, or other purposes not expressly stated. Wetland acreages presented in this report should be considered preliminary, and subject to review and modification by the U.S. Army Corps of Engineers (USACE) during the wetland delineation verification process.

Site Conditions

The survey area encompasses an approximately 3524-acre (26-mile) corridor of rural, urban, developed, and open land in portions of the Woodland, Grays Bend, EL Dorado Bend, Knights Landing, Verona, Rio Linda, Roseville, Citrus Heights, Pleasant Grove, and Taylor Monument USGS quadrangles. Residential structures, agricultural structures, and agricultural fields occupy the extent of the survey area. The agricultural fields within the survey area consist of planted row crops including alfalfa, wheat, sunflowers, corn, and tomatoes in addition to orchards and rice fields. Topography in the area is flat to gently sloping and portions continue to be graded for agriculture, with project elevation ranging from 15 to125 feet above sea level. Water used for agriculture within the survey area is pumped from the Sacramento River via the Tule Canal, the Knights Landing Ridge Cut, and the Natomas Cross Canal, as well as a matrix of unnamed irrigation canals and ditches.

Survey Methodology

Many of the terms used throughout this report have specific meanings relating to the federal wetland delineation process. Term definitions are based on the USACE Wetlands Delineation Manual (1987), the Federal Manual for Identifying and Delineating Jurisdictional Wetlands (1989) and the Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Arid West Region (2006). The terms defined below have specific meaning relating to the delineation of Waters of the U.S. as prescribed by §404 of the Clean Water Act (CWA).

Terminology

Abutting: When referring to wetlands that are adjacent to a tributary, abutting defines those wetlands that are not separated from the tributary by an upland feature, such as a berm or dike.

Adjacent: Adjacent as used in "Adjacent to a traditional navigable water," is defined in USACE and EPA regulations as "bordering, contiguous, or neighboring." Wetlands separated from other waters of the U.S. by man-made dikes or barriers, natural river berms, beach dunes and the like are 'adjacent wetlands.'

Atypical situation (significantly disturbed): In an atypical (significantly disturbed) situation, recent human activities or natural events have created conditions where positive indicators for hydrophytic vegetation, hydric soil, or wetland hydrology are not present or observable.

Ephemeral stream: An ephemeral stream has flowing water only during and for a short duration after, precipitation events in a typical year. Ephemeral streambeds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

Growing season: The growing season is the portion of the year when soil temperatures are above biologic zero (41° F) as defined by soil taxonomy.



Hydric soil: Soil is hydric that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic (oxygen-depleted) conditions in its upper part (*i.e.* within the shallow rooting zone of herbaceous plants).

Intermittent stream: An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.

Jurisdictional wetland: Sites that meet the definition of wetland provided below and that fall under USACE regulations pursuant to §404 of the CWA are considered jurisdictional wetlands.

Man-induced wetlands: A man-induced wetland is an area that has developed at least some characteristics of naturally occurring wetlands due to either intentional or incidental human activities.

Normal circumstances: This term refers to the soil and hydrologic conditions that are normally present, without regard to whether the vegetation has been removed.

Other Waters of the United States: Other Waters of the U.S. are seasonal or perennial water bodies, including lakes, stream channels, drainages, ponds, and other surface water features, that exhibit an ordinary high-water mark but lack positive indicators for one or more of the three wetland parameters (hydrophytic vegetation, hydric soil, and wetland hydrology) (33 CFR 328.4).

Perennial stream: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

Plant Indicator Status Categories:

- Obligate wetland plants (OBL) plants that occur almost always (estimated probability 99%) in wetlands under normal conditions, but which may also occur rarely (estimated probability 1%) in non-wetlands.
- *Facultative wetland plants* (FACW) plants that usually occur (estimated probability 67% to 99%) in wetlands under normal conditions, but also occur (estimated probability 1% to 33%) in non-wetlands.
- *Facultative plants* (FAC) Plants with a similar likelihood (estimated probability 33% to 67%) of occurring in both wetlands and non-wetlands.
- Facultative upland plants (FACU) Plants that occur sometimes (estimated probability1% to 33%) occur in wetlands, but occur more often (estimated probability 67% to 99%) in non-wetlands.

Obligate upland plants (UPL) – Plants that occur rarely (estimated probability 1%) in wetlands, but occur almost always (estimated probability 99%) in non-wetlands under natural conditions.

Ponded: Ponding is a condition in which free water covers the soil surface (e.g., in a closed depression) and is removed only by percolation, evaporation, or transpiration.

Problem area: Problem areas are those where one or more wetland parameters may be lacking because of normal seasonal or annual variations in environmental conditions that result from causes other than human activities or catastrophic natural events.

Relatively permanent: As defined in the *Rapanos* guidance document, a water body is "relatively permanent" if its flow is year round or its flow is continuous at least "seasonally," (e.g., typically 3 months). Wetlands adjacent to a "relatively permanent" tributary are also jurisdictional if those wetlands directly abut such a tributary.

Significant nexus: A water body is considered to have a "significant nexus" with a traditional navigable water if its flow characteristics and functions in combination with the ecologic and hydrologic functions preformed by all wetlands adjacent to such a tributary, affect the chemical, physical, and biological integrity of a downstream traditional navigable water.

Traditional navigable water: Includes all of the "navigable water of the United States," defined in 33 C.F.R. § 329, and by numerous decisions of the Federal courts, plus all other waters that are navigable-in-fact. As defined in 33 C.F.R. § 329, "Navigable waters of the United States are those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. A determination of navigability, once made, applies laterally over the entire surface of the water body, and is not extinguished by later actions or events which impede or destroy navigable capacity."

Tributary: A tributary as defined in the *Rapanos* guidance document, means a natural, manaltered, or man-made water body that carries flow directly or indirectly into traditional navigable waters. For purposes of determining "significant nexus" with a traditional navigable water, a "tributary" is the entire reach of the stream that is of the same order (i.e., from the point of confluence, where two lower order streams meet to from the tributary, downstream to the point such tributary enters a higher order stream).

Waters of the United States: This is the encompassing term for areas under federal jurisdiction pursuant to Section 404 of the CWA. Waters of the U.S. are divided into "wetlands" and "Other Waters of the U.S."

Wetland: Wetlands are defined as "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" (33 CFR 328.3 [b], 40 CFR 230.3). To be considered under federal jurisdiction, a wetland must support positive indicators for hydrophytic vegetation, hydric soil, and wetland hydrology.

Determination of Hydrophytic Vegetation

The presence of hydrophytic vegetation was determined using the methods outlined in the *Federal Manual for Identifying and Delineating Jurisdictional Wetlands* (1989) and the *Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Arid West Region* (2006), which are approved by the USACE for use in conjunction with the *Wetlands Delineation Manual* (1987). Areas are considered to have positive indicators of hydrophytic vegetation if they pass the dominance test, meaning more than 50 percent of the dominant species are OBL, FACW, FAC (Reed 1988). Plant species were identified to the lowest taxonomy possible.

Determination of Hydric Soils

Soil survey information was reviewed for the survey area and the Natural Resources Conservation Service (NRCS) database was consulted on the local soil conditions. The use of hydric soil indicators, as outlined in the *Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Arid West Region* (2006), was applied to all soil samples. Official soil series descriptions are provided in **Appendix A** and the distribution of soil map units for the site is shown in **Figure 2**.

Determination of Wetland Hydrology

Wetland hydrology was determined to be present if a site supported one or more of the following characteristics:

- Landscape position and surface topography (e.g. position of the site relative to an upslope water source, location within a distinct wetland drainage pattern, and concave surface topography);
- Inundation or saturation for a long duration either inferred based on field indicators or observed during repeated site visits; and
- Residual evidence of ponding or flooding resulting in field indicators such as scour marks, sediment deposits, algal matting, and drift lines.

The presence of water or saturated soil for approximately 5 to 12.5 percent of the growing season typically creates anaerobic conditions in the soil, and these conditions affect the types of plants that can grow and the types of soils that develop (Environmental Laboratory 1987).

Determination of Ordinary High Water Mark

The lateral extent of non-tidal water bodies (e.g. intermittent streams) were based on the ordinary high water mark (OHWM), which is "the line on the shore established by the fluctuations of water" (USACE 2005). The OHWM was determined based on physical characteristics of the area, including scour, multiple observed flow events (from current and historical aerial photos), shelving, changes in the character of soil, presence of mature vegetation, deposition, and topography. Due to the wide extent of some floodplains, adjacent riparian areas characterized by hydric soils, hydrophytic vegetation, and hydrology may be included within the OHWM of a non-tidal water body.




Figure 2.





Soils Characterization derived from NRCS		Miles		
Map Date August 17, 2007	0	1	2	
		Figure 2.		

Determination of Jurisdiction of Artificially Irrigated Wetlands

Based on the Memorandum 2003-04, from the Regulatory Branch of the Corps, "any area exhibiting wetland characteristics sustained solely by the application of irrigation water is not regulated under Section 404 of the CWA," the review of recently verified delineations wherein rice fields were not considered jurisdictional, and because the rice fields are not being converted for non agricultural purposes, rice fields within the survey area were not delineated as jurisdictional features. The canals within the survey area are nearly entirely supported by irrigation water; however, because of the potential for canals to convey water at times when no irrigation was taking place we delineated them as jurisdictional intermittent streams.

Determination of Isolated Wetlands

On January 9, 2001, the U.S. Supreme Court issued a decision in the case of *Solid Waste Agency of Northern Cook County* v. *United States Army Corps of Engineers* (the *SWANCC* decision), 531 U.S. 159 (2001). The Court determined that the Corps' authority under Section 404 of the CWA did not extend to isolated wetlands if they are not "adjacent" to navigable waters. It held that the Corps exceeded its statutory authority by asserting CWA Section 404 jurisdiction over the ponds that SWANCC wanted to fill based solely on the use of those "non-navigable, isolated, intrastate" waters by migratory birds. The parameters defined in the SWANCC case were used to identify "non-navigable, isolated, intrastate" wetlands within the survey area. These features will still be subject to regulation under the Regional Water Quality Control Board (RWQCB) and Section 401 of the Clean Water Act.

Jurisdictional Boundary Determination and Acreage Calculation

The wetland-upland boundary was determined based on the presence or inference of positive indicators of all mandatory criteria. The site was traversed on foot to identify wetlands. Standard data sheets were used to describe plants, soils, and hydrological characteristics of wetland features and jurisdictional forms were prepared to show a significant nexus for all of the jurisdictional features onsite (**Appendix B**). Gallaway Consulting, Inc. conducted the field delineation and prepared the map and acreage calculations (**Attachment A**). A table with the acreage totals for all the features delineated within the survey area is presented in **Appendix C**. The spatial data obtained during the preparation of this delineation was collected using a Trimble GeoXT Global Positioning System (GPS) Receiver on July 21 and 24-28 and August 10 and 25, 2006, May 3, 8, and 14, June 21, and July 31, 2007. The maximum position dilution of precision (PDOP) during data collection was 7.5. No readings were taken with fewer than 5 satellites. Point data locations were recorded for 25 seconds at a rate of 1 position per second. Area and line data was recorded at a rate of 1 position per second while walking at a slow pace. All GPS data was differentially corrected for maximum accuracy using the nearest National Geodetic Survey's Continuously Operating Reference Station (CORS).

<u>Results</u>

A total of 108.112 acres of pre-jurisdictional Waters of the U.S. were delineated within the survey area. The types of Waters of the U.S. identified within the survey area are distinguished as willow and mixed riparian wetlands, fresh emergent wetlands, seasonal wetlands, seasonal swales, vernal pools, vernal swales, and Other Waters including culverts, ponds, relatively permanent irrigation canals and perennial streams, traditional navigable waters, and non-relatively permanent drainages (**Table 1**). These features are mapped at a $1^{"} = 100^{"}$ scale and are presented in **Attachment A**. Waters of the U.S. acreages presented in this report should be considered preliminary, subject to review and modification by the USACE during the wetland delineation verification process. The wetlands, and the data of interpretation used to delineate their jurisdictional boundaries are described below.

Wetland Features					
Туре	Length (ft.)	Area (ft.2)	Acres		
Fresh Emergent Wetland Total =	n/a	155798.956	3.577		
Riparian Total =	n/a	716664.529	16.452		
Seasonal Swale =	n/a	91891.626	2.110		
Seasonal Wetland =	n/a	942009.073	21.626		
Vernal Pool =	n/a	189878.033	4.359		
Vernal Swale =	n/a	58319.269	1.339		
Willow Riparian =	n/a	82877.480	1.903		
Wetland Features Total =	n/a	2237438.967	51.365		
Other Waters of the U.S.					
Туре	Length (ft.)	Area (ft.2)	Acres		
Culvert Total =	5425.646	12836.605	0.295		
NRPW Total =	51913.385	94843.838	2.177		
RPW Total =	78208.919	1826085.369	41.921		
TNW Total =	1116.699	535358.639	12.290		
Pond Total =	n/a	2786.430	0.064		
OWOTUS Total =	136664.649	2471910.881	56.747		
	3				
Total WF and OWOTUS =	136664.649	4709349.848	108.112		

Table 1. Waters of the U.S. Totals Delineated within the PG&E Line 407 Survey Area.

Jurisdictional Features

Riparian

Riparian wetlands exist within Other Water features in the irrigation ditch on the west side of the Sacramento River and along the banks of the Sacramento River, Tule Canal, Knights Landing Ridge Cut, and other large irrigation canals and ditches onsite. There is a total of 16.452 acres of riparian wetlands and 1.903 acres of willow dominated riparian wetlands within the survey area. Vegetation within the riparian areas is dominated by an overstory of *Populus fremontii* (FACW), *Salix gooddingii* (OBL), *Salix exigua* (OBL), *Salix ssp.*, and *Sambucus mexicanus* (FAC) with an

understory of *Cyperus esculentus* (FACW) and *Rubus discolor* (FACW). Hydric soils were assumed due to complete inundation of the features. All features classified as riparian wetlands display positive indicators for wetland hydrology including inundation or saturation in the upper twelve inches and distinct drainage patterns.

Fresh Emergent Wetland

Fresh emergent wetlands are those that can be defined as containing emergent vegetation such as *Typha* and *Eleocharis*. Emergent vegetation consists of rooted plants that have parts extending above the water surface for at least part of the year, and are intolerant of complete inundation over prolonged periods. Water depths vary but rarely exceed 2 meters (6.6 feet) for long periods. Ponding is a condition in which free water covers the soil surface (e.g., in a closed depression) and is removed only by percolation, evaporation, or transpiration. The survey area supports 3.577 acres of fresh emergent wetlands including Natomas East Main Drainage and Curry Creek which are completely inundated with fresh emergent species. Hydric soils were assumed due to complete inundation. Vegetation present within the fresh emergent wetlands delineated in the survey area includes *Rumex crispus* (FACW-), *Typha sp.* (OBL), *Scirpus acutus* (OBL), *Salix sp.* (FACW), *Cyperus eragrostis* (OBL), and *Polygonum hydropiper* (OBL). All features classified as fresh emergent wetlands display positive indicators for wetland hydrology including inundation, saturation in the upper twelve inches and distinct drainage patterns.

Vernal Pools and Swales

Vernal pools are defined by the positive indication of three wetland parameters: hydrophytic vegetation specific to vernal pools, hydric soils, and hydrology (*i.e.*, ponding). All three parameters must be present to satisfy the vernal pool definition, which was applied while delineating all vernal pools present on-site. In addition to supporting positive indicators for hydrophytic vegetation, hydric soil, and wetland hydrology, vernal pools exhibit unique characteristics. Vernal pools form where there is a soil layer below or at the surface that is impermeable or nearly impermeable. Precipitation and surface runoff become trapped or "perched" above this layer. Hardpans are formed by leaching, re-deposition, and cementing of silica materials from high in the soil horizon to a lower ("B") horizon. In addition, vernal pools typically occur in landscapes that, at a broad scale, are shallowly sloping or nearly level, but on a finer scale may be quite bumpy or uneven. Since appropriate combinations of climate, soil, and topography often occur over continuous areas rather than in isolated spots, vernal pools in the Central Valley tend to occur in clusters called "complexes." Within these complexes, pools may be fed or connected by low drainage pathways called "swales," which were detected throughout the site. Swales are often themselves seasonal wetlands that remain inundated with water for much of the wet season, but not long enough to support strong vernal pool characteristics. Vernal pools may remain inundated until spring or early summer, sometimes filling and emptying numerous times during the wet season. Vernal pools gradually dry down during the spring, often forming a unique "bathtub ring" of flowers from endemic vernal pool plants blooming successively at the pool margins.

Grasslands in the eastern portion of the survey area support 52 vernal pools (4.359 acres) and 9 vernal swales (1.339 acres) for a total of 5.698 acres of vernal features (Attachment A).

Vegetation in these vernal pools and swales was mostly dominated by *Blennosperma nanum* (OBL), *Juncus bufonius* (FACW+), *Plagiobothrys stipitatus* (OBL), *Eryngium castrense* (OBL), *Lythrum sp.* (FACW), *Polygonum arenastrum* (NL), *Polypogon monspeliensis* (FACW) and *Gratiola ebracteata* (OBL).

Seasonal Wetlands and Swales

Seasonal wetlands and swales are defined by the positive indication of three wetland parameters: hydrophytic vegetation, hydric soils, and hydrology (*i.e.*, ponding). All three parameters must be present to satisfy the wetland definition, which was applied while delineating all seasonal wetlands/swales present on-site. These features allow water to pond for a long enough period of time to support hydrophytic vegetation and hydric soils. Seasonal wetlands tend to lack standing water during the late summer months, or during prolonged dry periods. They support hydrophytic species, such as *Eleocharis* that require longer and typically deeper inundation periods than those of vernal species. These features show positive indicators for hydric soils including mottling, an organic stratum, concretions, and oxidized root channels. All features classified as seasonal wetlands display positive indicators for wetland hydrology including sediment deposits and drainage patterns.

Within the survey area 21.626 acres of seasonal wetlands and 2.110 acres of seasonal swales were delineated. Vegetation in the seasonal wetlands delineated in the survey area was dominated by *Juncus xiphioides* (OBL), *Lolium multiflorum* (FAC), *Cyperus esculentus* (FACW) *Eremocarpus setigerus* (NL), and *Polypogon monspeliensis* (FACW).

Other Waters of the United States

Other Waters of the U.S. are seasonal or perennial water bodies, including lakes, stream channels, drainages, ponds, and other surface water features that exhibit an ordinary high-water mark but lack positive indicators for one or more of the three wetland parameters (*i.e.*, hydrophytic vegetation, hydric soil, and wetland hydrology) (33 CFR 328.4). The above definition was applied while delineating all Other Waters of the U.S. Drainages exhibited an ordinary high water mark and contained bed, bank, and/or scour morphology. A total of 136664.649 linear feet (56.747 acres) of Other Waters of the U.S. were delineated within the survey area including 0.295 acre of culverts and 0.064 acre of ponds.

Traditional Navigable Waters

The one traditional navigable water (TNW) found within the survey area is the Sacramento River (OW 22). It cuts through the western portion of the survey area flowing north to south towards the San Francisco Bay. The Sacramento River encompasses approximately 12.290 acres of the survey area.

Relatively Permanent Waters

Relatively permanent waters (RPW) within the survey area include Tule Canal (OW 05), Knights Landing Ridge Cut (OW 07 and 08), the main tributary to Knights Landing Ridge Cut (OW 06),

Natomas East Main Drainage (WF 112e), Curry Creek (OW 54-55, 124, and WF 117e and 018e), and a few of the larger irrigation canals which hold water for more than 3 months out of the year (OW 01, 03, 04, 11, 13, 14, 15, 18, 19, 29-31, 37-38, 41-46, 64, 87-88, 90-118, 120-124, 127-134, 136, 138, 154). These irrigation canals transfer and deliver water to and from farmers for irrigating their agricultural fields.

Due to the constant presence of water in some of the irrigation canals, hydrophytic vegetation has begun to grow in the canals, forming fresh emergent wetlands and riparian habitats. Dominant vegetation present in the vegetated irrigation canals includes *Rubus discolor* (FACW), *Typha* ssp. (OBL), *Scirpus acutus* (OBL), *Cyperus esculentus* (FACW), *Polypogon monspeliensis* (FACW), *Eleocharis* ssp. (OBL), and *Polygonum hydropiperoides* (OBL). These canals are under the management of the farmers and the local water district, however, and are subject to occasional maintenance and clearing of the vegetation to prevent the choking-up of the canals.

The Knights Landing Ridge Cut flows into Tule Canal, which in turn flows directly into the Sacramento River. The other larger unnamed irrigation canals in the West Project flow directly into either Tule Canal, Knights Landing Ridge Cut, or the Sacramento River. In the East Project, Natomas East Main Drainage flows directly into the American River further south of the survey area and Curry Creek flows into Natomas East Main Drainage north of the survey area. The other larger unnamed irrigation canals in the East Project flow either into East Drainage Canal or West Drainage Canal which merge further south of the project area to form the Natomas Main Drainage Canal which then flows directly into the Sacramento River. There are a total of 41.921 acres of RPWs within the survey area.

Non-Relatively Permanent Waters

Approximately 2.177 acres of non-relatively permanent waters (NRPW) were delineated within the survey area. These NRPWs include ephemeral drainages and smaller irrigation ditches used to irrigate the row crop fields between OW 05 and OW 06 which don't hold water for more than 3 months out of the year. Water is pumped into the irrigation ditches from both OW 05 and OW 06 to irrigate the fields and appear to flow back into OW05 through a culvert (OW32). The NRPWs onsite include OW 33, 34, 36, 37, and 39.

Non-Jurisdictional Features

Non-jurisdictional waters within the survey area are Other Waters including irrigation ditches and seasonal wetlands which are under the control and manipulation of farmers, roadside ditches which were created in upland areas to provide runoff from the roadway, and their associated culverts. These non-jurisdictional waters are not directly or indirectly connected to a TNW or a RPW.

Significant Nexus

Relatively Permanent Waters and Wetlands that Abut Them

Per the U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook (May 30, 2007) and the Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision Rapanos v. United States and Carabell v. United States a significant nexus determination is not required due to the fact that the jurisdictional irrigation canals within the survey area, including Tule Canal and the Knights Landing Ridge Cut, East Drainage Canal, West Drainage Canal, and Natomas Main Drainage Canal are non-navigable tributaries of the Sacramento River and are considered RPWs. These RPWs flow year round and flow directly/indirectly into the Sacramento River. Also, Natomas East Main Drainage and Curry Creek are RPWs which are tributaries of the American River and flow for more than 3 months out of the year. The riparian wetlands, vernal pools, seasonal wetlands and swales, and fresh emergent wetlands that occur within this project directly abut these RPW as illustrated in **Attachment A**.

Relatively Permanent Waters and Wetlands Adjacent to Them

A significant nexus determination will be required per the U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook (May 30, 2007) and the Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision Rapanos v. United States and Carabell v. United States. Wetlands adjacent to but not directly abutting the RPWs (Curry Creek, Dry Creek, and Natomas East Main Drainage) within the survey area are located within hydric soils and lowland topography typical of wetlands and have all three wetland parameters. These wetlands have a significant affect on the chemical, physical, and biological integrity of the downstream TNW, the American River. Wetlands within the survey area hold floodwaters and intercept sheet flow from uplands releasing water in a more consistent manner. These wetlands collect and hold water during significant rain events acting as a biological filter collecting the first flush prior to filtering into the TNWs. In addition, they prevent erosion and sedimentation of more permanent systems by reducing flow, which in turn provides habitat for waterfowl, song birds, small mammals and federally threatened and endangered vernal pool invertebrates within the wetlands.

Isolated Waters and Non-Jurisdictional Waters

The water features within the survey area were determined to be non-jurisdictional based on the following:

1. All of the non-jurisdictional water features within the survey area occur within the California state boundaries. The water features do not cross any state lines and are not used for transportation or interstate commerce.

2. None of the non-jurisdictional water features within the survey area are tributaries to a jurisdictional TNW, RPW or non-RPW. Also, these water features do not abut nor are they adjacent to TNWs, RPWs, or non-RPWs.

3. The water features NJ 01 through 06 hold water for more than 3 months out of the year, but they flow into agricultural fields and do not have direct or indirect connectivity to a jurisdictional TNW, RPW, or non-RPW.

4. Water features NJ 20-23, 25-27, 29, 31, 33-36, 38, 40, 41, 51, 59, 61, and 68 do not hold water for more than 3 months out of the year, are under the management of farmers and are filled in every planting season, and flow only into crop fields with no connection to a jurisdictional TNW, RPW, or NRPW. This also applies to non-jurisdictional seasonal wetlands NJ 95e-105e which are under the management of a farmer and have no hydrologic connection to jurisdictional features.

5. Water features NJ 08, 09, 10, 12, 14, 15, 16, 18, 42, 43, 50, 56, 70, and 95-110 were created in upland areas by run-off from roadways and do not significantly affect the chemical, physical, or biological integrity of downstream TNWs, RPWs, or non-RPWs because they do not carry a significant amount of flow and they have no connectivity.

Soils

The U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) 2006 *Soil Survey of Sacramento Area, California Parts of Yolo and Sutter Counties* identified 45 different map unit descriptions within the survey area in addition to open water (**Table 2**, **Figure 2**). Soil series descriptions are presented in **Appendix A** and wetland data sheets are presented in **Appendix B**.

Map Unit Symbol	Map Unit Description	Hydric(Y or N)/ Landform
104	Alamo-Fiddyment Complex, 0 to 5 percent slopes	Y/Depressions
140	Cometa sandy loam, 1 to 5 percent slopes	Y/Depressions
141	Cometa - Fiddyment Complex, 1 to 5 percent slopes	Y/Depressions
142	Cometa -Ramona sandy loams, 1 to 5 percent slopes	Y/Depressions
146	Fiddyment loam, 1 to 8 percent slopes	Y/Depressions
147	Fiddyment -Kaseberg loams, 2 to 9 percent slopes	Y/Depressions
175	Ramona sandy loam, 2 to 9 percent slopes	Y/Drainageways
181	San Joaquin sandy loam, 1 to 5 percent slopes	Y/Depressions
182	San Joaquin -Cometa sandy loams, 1 to 5 percent slopes	Y/Depressions
194	Xerofluvents, Frequently Flooded	Y/Drainageways
195	Xerofluvents, Hardpan Substratum	Y/Depressions, Drainageways
141	Marcum clay loam, siltstone substratum, 0 to 1 percent slopes	Y/Basin Floors
144	Nueva loam, 0 to 1 percent	Y/Floodplains
146	Nueva loam, wet, 0 to 1 percent slopes	Y/Floodplains
158	San Joaquin sandy loam, 0 to 2 percent slopes	N
Ya	Yolo silt loam	Y/Alluvial Fans
Sv	Sycamore complex, drained	Y/Alluvial Fans
BrA	Brentwood silty clay loam, 0 to 2 percent slopes	N

Table 2. Soils Found within the PG&E Line 407 Survey Area.

Map Unit Symbol	Map Unit Description	Hydric(Y or N)/ Landform
Sr	Sycamore silt loam, flooded	Y/Alluvial Fans
Su	Sycamore complex	Y/Alluvial Fans, Basin Floors
Te	Tyndall very fine sandy loam, deep	Y/Alluvial Fans
La	Lang sandy loam	Y/Alluvial Fans
So	Sycamore silt loam	Y/Alluvial Fans
Sa	Sacramento silty clay loam	Y/Alluvial Fans
Tb	Tyndall very fine sandy loam	Y/Alluvial Fans
Lb	Lang sandy loam, deep	Y/Alluvial Fans
Sw	Sycamore complex, flooded	Y/Alluvial Fans, Basin Floors
Md	Maria silt loam, deep	Y/Alluvial Fans
Sc	Sacramento clay	Y/Alluvial Fans, Basin Floors
Ra	Reiff very fine sandy loam	Y/Alluvial Fans
Yb	Yolo silty clay loam	Y/Alluvial Fans
Mb	Maria silt loam	Y/Alluvial Fans
Tc	Tyndall very fine sandy loam, drained	Y/Alluvial Fans
Sg	Sacramento soils, flooded	Y/Alluvial Fans, Basin Floors
Sp	Sycamore silt loam, drained	Y/Alluvial Fans
Lg	Laugenour very fine sandy loam	Y/Alluvial Fans
W	Water	Y/Open Water
109	Capay clay, hardpan substratum, 0 to 2 percent slopes	Y/Basin Floors
112	Clear Lake clay, 0 to 2 percent slopes	Y/Basin Floors
114	Clear Lake clay, hardpan substratum, 0 to 2 percent slopes	Y/Basin Floors
123	Cometa loam, 0 to 2 percent slopes	No
129	Galt clay, 0 to 2 percent slopes	Y/Basin Floors
137	Jacktone clay, 0 to 2 percent slopes	Y/Basin Floors
141	Marcum clay loam, siltstone substratum, 0 to 1 percent slopes	Y/Basin Floors
160	San Joaquin-Arents-Durochrepts complex, 0 to 1 percent slopes	Y/Depressions

When pooled water and/or obligate plants were present, hydric soils were assumed. In areas with questionable upland/wetland distinction, soil pit samples were observed to determine the presence or absence of hydric soil indicators. We observed water in the canals and ditches onsite at depths ranging from 1-20 inches.

Vegetation

Vegetation within the survey area consisted primarily of a variety of planted agricultural crops including wheat, corn, tomato, alfalfa, sunflower, rice, and orchards producing walnuts, pecans, olives, and a variety of fruits. Disturbed annual grassland found along the roadsides and the periphery of the agricultural fields was dominated by *Brassica niger*, *Avena barbata*, *Centaurea solstitialis*, *Hordeum murinum*, *Erodium botrys*, *Bromus diandrus*, *Convulvulus arvensis*, and *Sonchus asper*. Vegetation in the wet areas within the survey area was dominated by *Typha* ssp., *Scirpus acutus*, *Polygonum hydropiperoides*, *Salix* ssp., *Cyperus eragrostis*, *Lolium multiflorum*, *Polypogon monspeliensis*, *Blennosperma nanum*, *Juncus bufonius*, *Plagiobothrys stipitatus*, *Eryngium castrense*, *Lythrum sp.*, *Gratiola ebracteata*, *Juncus xiphioides*, and *Eremocarpus setigerus*. The upland annual grassland habitat was dominated by *Aira caryophyllea*, *Avena*

barbata, Centaurea solstitialis, Convovulus arvensis, Bromus hordeaceous, Gastridium ventricosum, Grindelia hirsutula var. davyi, Hemizonia fitchii, Lactuca serriola, Madia sp., Taeniatherum caput medusae, and Trichostema lanceolatum.

Hydrology

Hydrology within the survey area was evident within the network of irrigation canals and ditches which contained flowing water during the dates surveyed. In the western survey area, the two main canals that run through the survey area are Tule Canal and the Knights Landing Ridge Cut. These irrigation canals are entirely dependent on the pumping of water from the Sacramento River and are heavily manipulated for agricultural and flood control purposes and are considered relatively permanent waters. Additionally, the water from these canals and ditches eventually are drained back into the Sacramento River further south of the survey area. In the eastern survey area the Natomas East Main Drainage conveys water from north to south and drains directly into the American River further south of the survey area. Additionally, Curry Creek conveys water from east to west, intersecting Baseline Road twice, before forming a confluence with Natomas East Main Drainage north of the survey area. Canals west of Natomas East Main Drainage are entirely dependent on the pumping of water from the Sacramento River via the Natomas Cross Canal and all drain into either the West Drainage Canal or the East Drainage Canal which merge to form the Natomas Main Drainage Canal, which then flows directly into the Sacramento River south of the survey area. Nearly all waterways within the project area, with the exception of Curry Creek, are heavily manipulated for agricultural and flood control purposes including Natomas East Main Drainage, formerly Steelhead Creek, which has been straightened and confined to levies. The Sacramento River, from which most water within the project area is obtained, and the American River, which nearly all water in the project area is drained into, both provide Interstate Commerce. Wetland features located in the eastern survey area all drain into either Curry Creek to the north or Dry Creek to the south, both of which form a confluence with Natomas East Main Drainage.

Impact Avoidance and Minimization Recommendations

To the most practicable extent, impacts to all wetland features and Other Waters should be avoided. When complete avoidance is not possible, impacts should be indirect and temporary, with no permanent damage to the integrity of any wetland feature or Other Water nor to the watershed that supports it. A project strategy of avoidance of indirect and temporary impacts will reduce the amount of time needed for the permitting process and will reduce or eliminate the need for off-site mitigation.

Copies of field data sheets and the jurisdictional forms are provided in Appendix B.

Site Photos



Non-jurisdictional irrigation canal (NJ 05) and culvert (NJ 48)



Fresh emergent wetland in vegetated irrigation canal (OW 18)



Non-jurisdictional roadside ditch (NJ 50)



Non-jurisdictional irrigation ditch (bottom left NJ 27, top right NJ 33)



RPW (irrigation canal) - OW 11



Pump pumping water from RPW (OW 06unnamed tributary of Knights Landing Ridge Cut) into adjacent row crop field (OW 39).



Fresh emergent wetland within the vegetated irrigation canal (OW 03)



Non-jurisdictional cemented irrigation ditch (NJ 36)



RPW (Tule Canal) - OW 05



Non-jurisdictional seasonal wetland (WF 97e) – a fallow rice field



Non-jurisdictional irrigation ditch (NJ 22)



Riparian wetland in irrigation ditch (WF 09w)



Non-jurisdictional culvert (NJ 44)



Vernal pool – WF 82e



Vernal pool – WF 78e



Seasonal wetland - WF 80e



Irrigation canal - OW 30



Seasonal swale - WF 64e



Vernal pool – WF 69e

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^{. 2007.} National Hydric Soils List. Available on-line at http://soils.usda.gov/use/hydric/.

 Appendix A. Soil Series Descriptions



United States Department of Agriculture



Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for Placer County, California, Western Part; Sacramento County, California; Sutter County, California; and Yolo County, California

PG&E Line 407



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Soil Data Mart Web site or the NRCS Web Soil Survey. The Soil Data Mart is the data storage site for the official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



Å	0	4,000	8,000	16,000	24,000
A	0	15,000	30,000	60,000	Feet 90,000



Map Unit Legend

Placer County, California, Western Part (CA620)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
104	Alamo-Fiddyment complex, 0 to 5 percent slopes	495.6	5.0%
140	Cometa sandy loam, 1 to 5 percent slopes	7.1	0.1%
141	Cometa-Fiddyment complex, 1 to 5 percent slopes	937.2	9.4%
142	Cometa-Ramona sandy loams, 1 to 5 percent slopes	118.4	1.2%
146	Fiddyment loam, 1 to 8 percent slopes	63.0	0.6%
147	Fiddyment-Kaseberg loams, 2 to 9 percent slopes	358.8	3.6%
175	Ramona sandy loam, 2 to 9 percent slopes	31.1	0.3%
181	San Joaquin sandy loam, 1 to 5 percent slopes	5.9	0.1%
182	San Joaquin-Cometa sandy loams, 1 to 5 percent slopes	750.2	7.5%
194	Xerofluvents, frequently flooded	2.9	0.0%
195	Xerofluvents, hardpan substratum	129.5	1.3%

Sacramento County, California (CA067)				
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
115	Clear Lake clay, hardpan substratum, drained, 0 to 1 percent slopes	150.8	1.5%	
127	Cosumnes silt loam, partially drained, 0 to 2 percent slopes	6.2	0.1%	
151	Galt clay, leveled, 0 to 1 percent slopes	26.3	0.3%	
213	San Joaquin silt loam, leveled, 0 to 1 percent slopes	59.0	0.6%	
216	San Joaquin-Durixeralfs complex, 0 to 1 percent slopes	68.1	0.7%	
217	San Joaquin-Galt complex, leveled, 0 to 1 percent slopes	128.2	1.3%	
221	San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes	119.8	1.2%	
238	Xerarents-San Joaquin complex, 0 to 1 percent slopes	17.1	0.2%	

Sutter County, California (CA101)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
109	Capay clay, hardpan substratum, 0 to 2 percent slopes	218.1	2.2%
112	Clear Lake clay, 0 to 2 percent slopes	259.4	2.6%
114	Clear Lake clay, hardpan substratum, 0 to 2 percent slopes	129.0	1.3%
123	Cometa loam, 0 to 2 percent slopes	198.7	2.0%
129	Galt clay, 0 to 2 percent slopes	162.1	1.6%
137	Jacktone clay, 0 to 2 percent slopes	144.2	1.4%
141	Marcum clay loam, siltstone substratum, 0 to 1 percent slopes	119.7	1.2%
144	Nueva loam, 0 to 1 percent	73.7	0.7%
146	Nueva loam, wet, 0 to 1 percent slopes	58.7	0.6%
158	San Joaquin sandy loam, 0 to 2 percent slopes	566.6	5.7%
160	San Joaquin-Arents- Durochrepts complex, 0 to 1 percent slopes	636.8	6.4%
177	Water	25.9	0.3%

Yolo County, California (CA113)				
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
BrA	Brentwood silty clay loam, 0 to 2 percent slopes	21.0	0.2%	
La	Lang sandy loam	71.7	0.7%	
Lb	Lang sandy loam, deep	27.7	0.3%	
Lg	Laugenour very fine sandy loam	397.8	4.0%	
Mb	Maria silt Ioam	306.6	3.1%	
Md	Maria silt Ioam, deep	89.5	0.9%	
Ra	Reiff very fine sandy loam	273.1	2.7%	
Rh	Riverwash	21.5	0.2%	
Sa	Sacramento silty clay loam	95.0	1.0%	
Sc	Sacramento clay	343.4	3.4%	
Sd	Sacramento clay, drained	38.1	0.4%	
Sg	Sacramento soils, flooded	157.2	1.6%	
Sn	Soboba gravelly sandy loam	4.3	0.0%	
So	Sycamore silt loam	15.2	0.2%	
Sp	Sycamore silt loam, drained	365.9	3.7%	
Sr	Sycamore silt loam, flooded	143.6	1.4%	

Yolo County, California (CA113)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Su	Sycamore complex	170.7	1.7%
Sv	Sycamore complex, drained	274.1	2.8%
Sw	Sycamore complex, flooded	126.4	1.3%
ТЬ	Tyndall very fine sandy loam	18.2	0.2%
Тс	Tyndall very fine sandy loam, drained	327.9	3.3%
Те	Tyndall very fine sandy loam, deep	67.4	0.7%
W	Water	51.6	0.5%
Ya	Yolo silt loam	444.6	4.5%
Yb	Yolo silty clay loam	42.4	0.4%
Totals for Area of Interest (AC)))	9,954.4	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic classes rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Placer County, California, Western Part

104—Alamo-Fiddyment complex, 0 to 5 percent slopes

Map Unit Setting

Elevation: 50 to 500 feet *Mean annual precipitation*: 10 to 22 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 230 to 300 days

Map Unit Composition

Alamo and similar soils: 50 percent Fiddyment and similar soils: 30 percent Minor components: 20 percent

Description of Alamo

Setting

Landform: Depressions Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 37 to 41 inches to duripan
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability (nonirrigated): 4w

Typical profile

0 to 9 inches: Clay 9 to 37 inches: Clay 37 to 41 inches: Indurated

Description of Fiddyment

Setting

Landform: Ridges Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sedimentary rock

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches; 20 to 35 inches to duripan; 28 to 35 inches to duripan; 35 to 39 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e

Typical profile

0 to 12 inches: Loam 12 to 28 inches: Clay loam 28 to 35 inches: Indurated 35 to 39 inches: Weathered bedrock

Minor Components

San joaquin sandy loam

Percent of map unit: 10 percent

Cometa sandy loam Percent of map unit: 5 percent

Kaselburg loam

Percent of map unit: 5 percent

140—Cometa sandy loam, 1 to 5 percent slopes

Map Unit Setting

Elevation: 20 to 400 feet *Mean annual precipitation*: 10 to 23 inches *Mean annual air temperature*: 63 degrees F *Frost-free period*: 260 to 300 days

Map Unit Composition

Cometa and similar soils: 85 percent *Minor components:* 15 percent

Description of Cometa

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches Drainage class: Well drained Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water capacity: Low (about 5.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability (nonirrigated): 3e

Typical profile

0 to 18 inches: Sandy loam 18 to 29 inches: Clay 29 to 60 inches: Sandy loam

Minor Components

Kaseburg

Percent of map unit: 5 percent

Fiddyment Percent of map unit: 5 percent

San joaquin Percent of map unit: 4 percent

Alamo

Percent of map unit: 1 percent Landform: Depressions

141—Cometa-Fiddyment complex, 1 to 5 percent slopes

Map Unit Setting

Elevation: 20 to 400 feet *Mean annual precipitation:* 10 to 23 inches *Mean annual air temperature:* 61 to 63 degrees F *Frost-free period:* 230 to 300 days

Map Unit Composition

Fiddyment and similar soils: 35 percent *Cometa and similar soils:* 35 percent *Minor components:* 30 percent

Description of Cometa

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches Drainage class: Well drained Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e Ecological site: CLAYPAN (R017XD093CA)

Typical profile

0 to 18 inches: Sandy loam 18 to 29 inches: Clay 29 to 60 inches: Sandy loam

Description of Fiddyment

Setting

Landform: Ridges Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from siltstone

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 20 to 35 inches to duripan; 28 to 35 inches to duripan; 35 to 39 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e Ecological site: CLAYPAN (R017XD093CA)

Typical profile

0 to 12 inches: Loam 12 to 28 inches: Clay loam 28 to 35 inches: Indurated 35 to 39 inches: Weathered bedrock

Minor Components

San joaquin

Percent of map unit: 10 percent

Kaseburg

Percent of map unit: 10 percent

Ramona

Percent of map unit: 5 percent

Alamo

Percent of map unit: 5 percent Landform: Depressions

142—Cometa-Ramona sandy loams, 1 to 5 percent slopes

Map Unit Setting

Elevation: 20 to 3,500 feet *Mean annual precipitation*: 10 to 23 inches *Mean annual air temperature*: 63 degrees F *Frost-free period*: 230 to 320 days

Map Unit Composition

Cometa and similar soils: 50 percent *Ramona and similar soils:* 30 percent *Minor components:* 20 percent

Description of Cometa

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability (nonirrigated): 3e

Typical profile

0 to 18 inches: Sandy loam 18 to 29 inches: Clay 29 to 60 inches: Sandy loam

Description of Ramona

Setting

Landform: Terraces

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability (nonirrigated): 3e

Typical profile

0 to 6 inches: Sandy Ioam 6 to 14 inches: Loam 14 to 55 inches: Sandy clay Ioam 55 to 73 inches: Gravelly sandy Ioam

Minor Components

San joaquin Percent of map unit: 5 percent

Fiddyment

Percent of map unit: 5 percent

Alamo

Percent of map unit: 5 percent Landform: Depressions

Xerofluvent

Percent of map unit: 5 percent Landform: Drainageways

146—Fiddyment loam, 1 to 8 percent slopes

Map Unit Setting

Elevation: 50 to 280 feet *Mean annual precipitation*: 19 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 230 to 300 days

Map Unit Composition

Fiddyment and similar soils: 85 percent *Minor components:* 15 percent

Description of Fiddyment

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from siltstone

Properties and qualities

Slope: 1 to 8 percent
Depth to restrictive feature: 20 to 35 inches to duripan; 28 to 35 inches to duripan; 35 to 39 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e

Typical profile

0 to 12 inches: Loam 12 to 28 inches: Clay loam 28 to 35 inches: Indurated 35 to 39 inches: Weathered bedrock

Minor Components

Cometa

Percent of map unit: 5 percent

Kaseburg

Percent of map unit: 5 percent

San joaquin Percent of map unit: 3 percent

Alamo

Percent of map unit: 2 percent Landform: Depressions

147—Fiddyment-Kaseberg loams, 2 to 9 percent slopes

Map Unit Setting

Elevation: 50 to 280 feet *Mean annual precipitation*: 16 to 22 inches *Mean annual air temperature*: 61 to 63 degrees F *Frost-free period*: 230 to 300 days

Map Unit Composition

Fiddyment and similar soils: 50 percent
Kaseberg and similar soils: 30 percent Minor components: 20 percent

Description of Fiddyment

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from siltstone

Properties and qualities

Slope: 2 to 9 percent
Depth to restrictive feature: 20 to 35 inches to duripan; 28 to 35 inches to duripan; 35 to 39 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e Ecological site: CLAYPAN (R018XD082CA)

Typical profile

0 to 12 inches: Loam 12 to 28 inches: Clay loam 28 to 35 inches: Indurated 35 to 39 inches: Weathered bedrock

Description of Kaseberg

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from siltstone

Properties and qualities

Slope: 2 to 9 percent
Depth to restrictive feature: 16 to 17 inches to duripan; 17 to 21 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.6 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e Ecological site: CLAYPAN (R018XD082CA)

Typical profile

0 to 16 inches: Loam 16 to 17 inches: Indurated 17 to 21 inches: Weathered bedrock

Minor Components

Unnamed, gravelly

Percent of map unit: 10 percent

Alamo

Percent of map unit: 10 percent Landform: Depressions

175—Ramona sandy loam, 2 to 9 percent slopes

Map Unit Setting

Elevation: 250 to 3,500 feet *Mean annual precipitation:* 10 to 20 inches *Mean annual air temperature:* 63 degrees F *Frost-free period:* 230 to 320 days

Map Unit Composition

Ramona and similar soils: 85 percent Minor components: 15 percent

Description of Ramona

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 2 to 9 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability (nonirrigated): 3e

Typical profile

0 to 6 inches: Sandy loam 6 to 14 inches: Fine sandy loam 14 to 55 inches: Sandy clay loam 55 to 73 inches: Gravelly sandy loam

Minor Components

Cometa

Percent of map unit: 5 percent

Kilaga

Percent of map unit: 5 percent

San joaquin

Percent of map unit: 4 percent

Unnamed

Percent of map unit: 1 percent Landform: Drainageways

181—San Joaquin sandy loam, 1 to 5 percent slopes

Map Unit Setting

Elevation: 20 to 500 feet *Mean annual precipitation*: 10 to 22 inches *Mean annual air temperature*: 61 to 63 degrees F *Frost-free period*: 250 to 300 days

Map Unit Composition

San joaquin and similar soils: 80 percent Minor components: 20 percent

Description of San Joaquin

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 35 to 50 inches to duripan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e Ecological site: CLAYPAN (R017XD093CA)

Typical profile

0 to 15 inches: Sandy loam 15 to 35 inches: Clay loam 35 to 50 inches: Indurated 50 to 60 inches: Stratified sandy loam to loam

Minor Components

Cometa

Percent of map unit: 10 percent

Fiddyment

Percent of map unit: 5 percent

Unnamed

Percent of map unit: 3 percent

Alamo

Percent of map unit: 2 percent Landform: Depressions

182—San Joaquin-Cometa sandy loams, 1 to 5 percent slopes

Map Unit Setting

Elevation: 20 to 500 feet *Mean annual precipitation:* 10 to 23 inches *Mean annual air temperature:* 61 to 63 degrees F *Frost-free period:* 250 to 300 days

Map Unit Composition

San joaquin and similar soils: 40 percent Cometa and similar soils: 30 percent Minor components: 30 percent

Description of San Joaquin

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 35 to 50 inches to duripan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e Ecological site: CLAYPAN (R017XD093CA)

Typical profile

0 to 15 inches: Sandy loam 15 to 35 inches: Clay loam 35 to 50 inches: Indurated 50 to 60 inches: Stratified sandy loam to loam

Description of Cometa

Setting

Landform: Terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability (nonirrigated): 4e Ecological site: CLAYPAN (R017XD093CA)

Typical profile

0 to 18 inches: Sandy loam 18 to 29 inches: Clay 29 to 60 inches: Sandy loam

Minor Components

Ramona

Percent of map unit: 10 percent

Fiddyment

Percent of map unit: 10 percent

Alamo

Percent of map unit: 5 percent Landform: Depressions

Kaseburg

Percent of map unit: 5 percent

194—Xerofluvents, frequently flooded

Map Unit Setting

Elevation: 0 to 1,500 feet *Mean annual precipitation:* 14 to 20 inches *Mean annual air temperature:* 61 to 64 degrees F *Frost-free period:* 250 to 270 days

Map Unit Composition

Xerofluvents, frequently flooded, and similar soils: 90 percent Minor components: 10 percent

Description of Xerofluvents, Frequently Flooded

Setting

Landform: Drainageways Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 1.98 in/hr)
Depth to water table: About 30 to 57 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water capacity: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability (nonirrigated): 4w

Typical profile

0 to 15 inches: Stratified loamy sand to fine sandy loam *15 to 37 inches*: Stratified loamy sand to fine sandy loam to silt loam *37 to 55 inches*: Stratified loam to silty clay loam to clay

Minor Components

Unnamed

Percent of map unit: 10 percent Landform: Drainageways

195—Xerofluvents, hardpan substratum

Map Unit Setting

Elevation: 300 to 3,500 feet *Mean annual precipitation:* 30 to 40 inches *Mean annual air temperature:* 61 to 64 degrees F Frost-free period: 200 to 300 days

Map Unit Composition

Xerofluvents and similar soils: 85 percent Minor components: 15 percent

Description of Xerofluvents

Setting

Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: 20 to 36 inches to duripan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water capacity: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): 3w Land capability (nonirrigated): 3w

Typical profile

0 to 40 inches: Stratified loam to clay loam 40 to 44 inches: Indurated

Minor Components

Alamo

Percent of map unit: 10 percent Landform: Depressions

Unnamed

Percent of map unit: 3 percent Landform: Drainageways

Unnamed

Percent of map unit: 2 percent Landform: Drainageways

Sacramento County, California

115—Clear Lake clay, hardpan substratum, drained, 0 to 1 percent slopes

Map Unit Setting

Elevation: 0 to 100 feet *Mean annual precipitation:* 12 to 18 inches *Mean annual air temperature:* 61 degrees F *Frost-free period:* 260 to 280 days

Map Unit Composition

Clear lake and similar soils: 85 percent Minor components: 15 percent

Description of Clear Lake

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 48 to 64 inches to duripan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability (nonirrigated): 3s

Typical profile

0 to 15 inches: Clay 15 to 34 inches: Clay 34 to 48 inches: Clay loam 48 to 64 inches: Cemented

Minor Components

Cosumnes

Percent of map unit: 8 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

San joaquin

Percent of map unit: 7 percent

127—Cosumnes silt loam, partially drained, 0 to 2 percent slopes

Map Unit Setting

Elevation: 10 to 70 feet *Mean annual precipitation*: 15 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 250 to 300 days

Map Unit Composition

Cosumnes and similar soils: 85 percent Minor components: 15 percent

Description of Cosumnes

Setting

Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 9.7 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 3w

Typical profile

0 to 8 inches: Silt loam 8 to 21 inches: Stratified silty clay loam to clay 21 to 43 inches: Stratified clay loam to clay 43 to 60 inches: Stratified clay loam to clay

Minor Components

Clear lake

Percent of map unit: 4 percent Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Columbia

Percent of map unit: 4 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Sailboat

Percent of map unit: 3 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Egbert

Percent of map unit: 3 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Stratified unnamed

Percent of map unit: 1 percent

151—Galt clay, leveled, 0 to 1 percent slopes

Map Unit Setting

Elevation: 10 to 150 feet *Mean annual precipitation*: 14 to 18 inches *Mean annual air temperature*: 59 to 64 degrees F *Frost-free period*: 250 to 300 days

Map Unit Composition

Galt and similar soils: 85 percent Minor components: 15 percent

Description of Galt

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 32 to 60 inches to duripan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 1 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 3s

Typical profile

0 to 13 inches: Clay 13 to 32 inches: Clay 32 to 60 inches: Cemented

Minor Components

Clear lake

Percent of map unit: 4 percent Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

San joaquin

Percent of map unit: 4 percent

Urban land

Percent of map unit: 3 percent

Overburden/hardpan unnamed Percent of map unit: 2 percent

Rarely flooded, unnamed Percent of map unit: 2 percent

213—San Joaquin silt loam, leveled, 0 to 1 percent slopes

Map Unit Setting

Elevation: 20 to 500 feet *Mean annual precipitation*: 10 to 22 inches *Mean annual air temperature*: 61 to 63 degrees F *Frost-free period*: 250 to 300 days

Map Unit Composition

San joaquin and similar soils: 85 percent Minor components: 15 percent

Description of San Joaquin

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent Depth to restrictive feature: 28 to 54 inches to duripan Drainage class: Moderately well drained Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water capacity: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 3s

Typical profile

0 to 23 inches: Silt loam 23 to 28 inches: Clay loam 28 to 54 inches: Indurated 54 to 60 inches: Stratified sandy loam to loam

Minor Components

Bruella

Percent of map unit: 3 percent

Durixeralfs

Percent of map unit: 3 percent

Galt

Percent of map unit: 2 percent Landform: Depressions

Hedge

Percent of map unit: 2 percent

Kimball

Percent of map unit: 2 percent

Xerarents

Percent of map unit: 2 percent

Rarely flooded, unnamed

Percent of map unit: 1 percent

216—San Joaquin-Durixeralfs complex, 0 to 1 percent slopes

Map Unit Setting

Elevation: 20 to 500 feet *Mean annual precipitation:* 10 to 22 inches *Mean annual air temperature:* 61 to 63 degrees F *Frost-free period:* 250 to 300 days

Map Unit Composition

San joaquin and similar soils: 55 percent Durixeralfs and similar soils: 35 percent Minor components: 10 percent

Description of San Joaquin

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 28 to 54 inches to duripan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability (nonirrigated): 4s

Typical profile

0 to 23 inches: Silt loam 23 to 28 inches: Clay loam 28 to 54 inches: Indurated 54 to 60 inches: Stratified sandy loam to loam

Description of Durixeralfs

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 20 to 60 inches to duripan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability (nonirrigated): 4s

Typical profile

0 to 6 inches: Clay 6 to 20 inches: Clay loam 20 to 60 inches: Indurated

Minor Components

Galt

Percent of map unit: 4 percent Landform: Depressions

Kimball

Percent of map unit: 4 percent

Xerarents

Percent of map unit: 2 percent

217—San Joaquin-Galt complex, leveled, 0 to 1 percent slopes

Map Unit Setting

Elevation: 20 to 500 feet *Mean annual precipitation:* 10 to 22 inches *Mean annual air temperature:* 61 to 63 degrees F *Frost-free period:* 250 to 300 days

Map Unit Composition

San joaquin and similar soils: 45 percent Galt and similar soils: 40 percent Minor components: 15 percent

Description of San Joaquin

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 20 to 46 inches to duripan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 3s

Typical profile

0 to 15 inches: Silt loam 15 to 20 inches: Clay loam 20 to 46 inches: Indurated 46 to 60 inches: Stratified sandy loam to loam

Description of Galt

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 38 to 60 inches to duripan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 3s

Typical profile

0 to 6 inches: Silt loam 6 to 19 inches: Clay 19 to 38 inches: Clay 38 to 60 inches: Cemented

Minor Components

Clear lake

Percent of map unit: 4 percent Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Durixeralfs

Percent of map unit: 4 percent

Xerarents

Percent of map unit: 4 percent

Kimball

Percent of map unit: 2 percent

Rarely flooded, unnamed

Percent of map unit: 1 percent

221—San Joaquin-Xerarents complex, leveled, 0 to 1 percent slopes

Map Unit Setting

Elevation: 0 to 2,500 feet

Mean annual precipitation: 10 to 22 inches Mean annual air temperature: 61 to 63 degrees F Frost-free period: 250 to 300 days

Map Unit Composition

San joaquin and similar soils: 45 percent Xerarents and similar soils: 40 percent Minor components: 15 percent

Description of San Joaquin

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 28 to 54 inches to duripan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 3s

Typical profile

0 to 23 inches: Silt loam 23 to 28 inches: Clay loam 28 to 54 inches: Indurated 54 to 60 inches: Stratified sandy loam to loam

Description of Xerarents

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent Depth to restrictive feature: More than 80 inches Drainage class: Well drained Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water capacity: Very low (about 0.0 inches)

Interpretive groups

Land capability (nonirrigated): 7e

Typical profile

0 to 60 inches: Variable

Minor Components

Clear lake

Percent of map unit: 3 percent Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Columbia

Percent of map unit: 3 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Galt

Percent of map unit: 2 percent Landform: Terraces

Sailboat

Percent of map unit: 2 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Durixeralfs

Percent of map unit: 2 percent

Kimball

Percent of map unit: 2 percent

Rarely flooded, unnamed

Percent of map unit: 1 percent

238—Xerarents-San Joaquin complex, 0 to 1 percent slopes

Map Unit Setting

Elevation: 0 to 2,500 feet *Mean annual precipitation*: 10 to 22 inches *Mean annual air temperature*: 61 to 63 degrees F *Frost-free period*: 250 to 300 days

Map Unit Composition

Xerarents and similar soils: 65 percent San joaquin and similar soils: 20 percent Minor components: 15 percent

Description of Xerarents

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent Depth to restrictive feature: More than 80 inches Drainage class: Well drained Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Available water capacity: Very low (about 0.0 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 3s

Typical profile

0 to 60 inches: Variable

Description of San Joaquin

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 35 to 60 inches to duripan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 3s

Typical profile

0 to 13 inches: Fine sandy loam 13 to 30 inches: Loam 30 to 35 inches: Clay loam 35 to 60 inches: Indurated 60 to 67 inches: Stratified loamy coarse sand to loam

Minor Components

Clear lake

Percent of map unit: 3 percent Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Columbia

Percent of map unit: 3 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Sailboat

Percent of map unit: 2 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Durixeralfs

Percent of map unit: 2 percent

Red bluff

Percent of map unit: 2 percent

Redding

Percent of map unit: 2 percent

Rarely flooded, unnamed

Percent of map unit: 1 percent

Sutter County, California

109—Capay clay, hardpan substratum, 0 to 2 percent slopes

Map Unit Setting

Elevation: 20 to 50 feet *Mean annual precipitation*: 14 to 17 inches *Mean annual air temperature*: 61 to 64 degrees F *Frost-free period*: 260 to 280 days

Map Unit Composition

Capay, clay, hardpan substratum, and similar soils: 80 percent *Minor components*: 20 percent

Description of Capay, Clay, Hardpan Substratum

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 42 to 46 inches to duripan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability (nonirrigated): 4s

Typical profile

0 to 26 inches: Clay 26 to 42 inches: Clay 42 to 46 inches: Cemented 46 to 60 inches: Clay loam, loam

Minor Components

Clear lake

Percent of map unit: 5 percent Landform: Basin floors

Galt

Percent of map unit: 5 percent Landform: Rims

Jacktone

Percent of map unit: 5 percent Landform: Basin floors

Capay, weakly cem pan substr

Percent of map unit: 5 percent Landform: Basin floors

112—Clear Lake clay, 0 to 2 percent slopes

Map Unit Setting

Elevation: 20 to 50 feet *Mean annual precipitation:* 14 to 17 inches *Mean annual air temperature:* 61 to 64 degrees F *Frost-free period:* 260 to 280 days

Map Unit Composition

Clear lake, clay, and similar soils: 90 percent *Minor components*: 10 percent

Description of Clear Lake, Clay

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/ cm)
Sodium adsorption ratio, maximum: 15.0
Available water capacity: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 42 inches: Clay 42 to 60 inches: Clay

Minor Components

Capay

Percent of map unit: 4 percent Landform: Basin floors

Oswald

Percent of map unit: 3 percent Landform: Basin floors

Subaco

Percent of map unit: 3 percent Landform: Flood plains

114—Clear Lake clay, hardpan substratum, 0 to 2 percent slopes

Map Unit Setting

Elevation: 10 to 40 feet *Mean annual precipitation*: 14 to 17 inches *Mean annual air temperature*: 61 to 64 degrees F *Frost-free period*: 260 to 280 days

Map Unit Composition

Clear lake, clay, hardpan substratum, and similar soils: 80 percent *Minor components:* 20 percent

Description of Clear Lake, Clay, Hardpan Substratum

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 40 to 60 inches to duripan
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 14 inches: Clay 14 to 35 inches: Clay 35 to 48 inches: Clay Ioam 48 to 60 inches: Cemented

Minor Components

Capay

Percent of map unit: 5 percent Landform: Basin floors

Jacktone

Percent of map unit: 5 percent Landform: Basin floors

Galt

Percent of map unit: 5 percent *Landform:* Basin floors

Clear lake clay

Percent of map unit: 5 percent Landform: Basin floors

123—Cometa loam, 0 to 2 percent slopes

Map Unit Setting

Elevation: 30 to 60 feet *Mean annual precipitation*: 17 to 20 inches *Mean annual air temperature*: 61 to 64 degrees F *Frost-free period*: 260 to 280 days

Map Unit Composition

Cometa, loam, and similar soils: 75 percent Minor components: 25 percent

Description of Cometa, Loam

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed clayey alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability (nonirrigated): 4s

Typical profile

0 to 16 inches: Loam 16 to 60 inches: Clay

Minor Components

San joaquin

Percent of map unit: 13 percent

Snelling

Percent of map unit: 12 percent

129—Galt clay, 0 to 2 percent slopes

Map Unit Setting

Elevation: 10 to 40 feet *Mean annual precipitation:* 14 to 17 inches *Mean annual air temperature:* 61 to 64 degrees F *Frost-free period:* 260 to 280 days

Map Unit Composition

Galt, clay, and similar soils: 85 percent *Minor components*: 15 percent

Description of Galt, Clay

Setting

Landform: Rims Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Clayey alluvium derived from mixed

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 20 to 40 inches to duripan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 1 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 4s

Typical profile

0 to 10 inches: Clay 10 to 21 inches: Clay 21 to 42 inches: Cemented 42 to 62 inches: Loam

Minor Components

Capay

Percent of map unit: 5 percent *Landform:* Basin floors

Clear lake

Percent of map unit: 5 percent *Landform:* Basin floors

Jacktone

Percent of map unit: 5 percent Landform: Basin floors

137—Jacktone clay, 0 to 2 percent slopes

Map Unit Setting

Elevation: 10 to 30 feet *Mean annual precipitation*: 14 to 16 inches *Mean annual air temperature*: 61 to 64 degrees F *Frost-free period*: 260 to 280 days

Map Unit Composition

Jacktone, clay, and similar soils: 85 percent Minor components: 15 percent

Description of Jacktone, Clay

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Clayey alluvium derived from mixed

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 35 to 39 inches to duripan; 39 to 61 inches to cemented horizon
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 3w Land capability (nonirrigated): 4w

Typical profile

0 to 25 inches: Clay

25 to 35 inches: Clay

Minor Components

Capay

Percent of map unit: 5 percent Landform: Basin floors

Clear lake

Percent of map unit: 5 percent Landform: Basin floors

Galt

Percent of map unit: 5 percent Landform: Rims

141—Marcum clay loam, siltstone substratum, 0 to 1 percent slopes

Map Unit Setting

Elevation: 20 to 80 feet *Mean annual precipitation*: 17 to 20 inches *Mean annual air temperature*: 61 to 64 degrees F *Frost-free period*: 260 to 280 days

Map Unit Composition

Marcum, clay loam, siltstone substratum, and similar soils: 75 percent Minor components: 25 percent

Description of Marcum, Clay Loam, Siltstone Substratum

Setting

Landform: Terraces, rims Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy alluvium derived from mixed

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 40 to 80 inches to paralithic bedrock
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 1 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 9.2 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability (nonirrigated): 4s

Typical profile

0 to 16 inches: Clay loam 16 to 28 inches: Clay loam 28 to 40 inches: Silty clay, clay 40 to 43 inches: Clay loam 43 to 47 inches: Weathered bedrock

Minor Components

Conejo

Percent of map unit: 7 percent

Oswald

Percent of map unit: 6 percent *Landform:* Basin floors

Gridley

Percent of map unit: 6 percent

Tisdale

Percent of map unit: 6 percent

144—Nueva loam, 0 to 1 percent

Map Unit Setting

Elevation: 20 to 50 feet *Mean annual precipitation:* 14 to 17 inches *Mean annual air temperature:* 61 to 64 degrees F *Frost-free period:* 260 to 280 days

Map Unit Composition

Nueva, loam, and similar soils: 85 percent Minor components: 15 percent

Description of Nueva, Loam

Setting

Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy alluvium derived from mixed

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 48 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 17 inches: Loam 17 to 42 inches: Stratified sandy loam to silt loam 42 to 60 inches: Clay loam

Minor Components

Columbia

Percent of map unit: 8 percent Landform: Flood plains

Shanghai

Percent of map unit: 7 percent Landform: Flood plains

146—Nueva loam, wet, 0 to 1 percent slopes

Map Unit Setting

Elevation: 20 to 50 feet *Mean annual precipitation*: 14 to 17 inches *Mean annual air temperature*: 61 to 64 degrees F *Frost-free period*: 260 to 280 days

Map Unit Composition

Nueva, loam, wet, and similar soils: 85 percent Minor components: 15 percent

Description of Nueva, Loam, Wet

Setting

Landform: Flood plains Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy alluvium derived from mixed

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 48 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 17 inches: Loam 17 to 42 inches: Stratified sandy loam to silt loam 42 to 60 inches: Clay loam

Minor Components

Columbia

Percent of map unit: 8 percent Landform: Flood plains

Shanghai

Percent of map unit: 7 percent Landform: Flood plains

158—San Joaquin sandy loam, 0 to 2 percent slopes

Map Unit Setting

Elevation: 30 to 60 feet *Mean annual precipitation*: 17 to 20 inches *Mean annual air temperature*: 61 to 63 degrees F *Frost-free period*: 260 to 280 days

Map Unit Composition

San joaquin, sandy loam, and similar soils: 75 percent Minor components: 25 percent

Description of San Joaquin, Sandy Loam

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 20 to 40 inches to duripan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability (nonirrigated): 4s

Typical profile

0 to 16 inches: Sandy loam 16 to 20 inches: Clay

20 to 40 inches: Indurated 40 to 60 inches: Stratified sandy loam to loam

Minor Components

Cometa

Percent of map unit: 10 percent

Snelling

Percent of map unit: 10 percent

Unnamed, leveled

Percent of map unit: 5 percent

160—San Joaquin-Arents-Durochrepts complex, 0 to 1 percent slopes

Map Unit Setting

Elevation: 20 to 50 feet *Mean annual precipitation:* 17 to 20 inches *Mean annual air temperature:* 61 to 64 degrees F *Frost-free period:* 260 to 280 days

Map Unit Composition

San joaquin, sandy loam, and similar soils: 30 percent Durochrepts and similar soils: 25 percent Arents and similar soils: 25 percent Minor components: 20 percent

Description of San Joaquin, Sandy Loam

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 16 to 20 inches to abrupt textural change; 20 to 40 inches to duripan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability (nonirrigated): 4s

Typical profile

0 to 16 inches: Sandy loam 16 to 20 inches: Clay 20 to 40 inches: Indurated 40 to 60 inches: Stratified sandy loam to loam

Description of Arents

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear

Properties and qualities

Slope: 0 to 1 percent Depth to restrictive feature: More than 80 inches Drainage class: Well drained Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None

Interpretive groups

Land capability (nonirrigated): 4s

Typical profile

0 to 60 inches: Variable

Description of Durochrepts

Setting

Landform: Terraces Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 5 to 20 inches to duripan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): 7s Land capability (nonirrigated): 7s

Typical profile

0 to 16 inches: Sandy loam 16 to 20 inches: Indurated

Minor Components

Cometa

Percent of map unit: 10 percent

Galt

Percent of map unit: 5 percent Landform: Depressions

Snelling

Percent of map unit: 5 percent

177—Water

Map Unit Composition

Water: 100 percent

Yolo County, California

BrA—Brentwood silty clay loam, 0 to 2 percent slopes

Map Unit Setting

Elevation: 50 to 400 feet *Mean annual precipitation*: 12 to 20 inches *Mean annual air temperature*: 61 to 63 degrees F *Frost-free period*: 280 days

Map Unit Composition

Brentwood and similar soils: 85 percent Minor components: 15 percent

Description of Brentwood

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 10.8 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 10 inches: Silty clay loam 10 to 35 inches: Silty clay loam 35 to 60 inches: Silty clay loam

Minor Components

Yolo

Percent of map unit: 5 percent

Zamora

Percent of map unit: 5 percent

Rincon

Percent of map unit: 3 percent

Myers

Percent of map unit: 2 percent

La—Lang sandy loam

Map Unit Setting

Elevation: 10 to 30 feet *Mean annual precipitation:* 18 inches *Mean annual air temperature:* 64 degrees F *Frost-free period:* 280 days

Map Unit Composition

Lang and similar soils: 85 percent Minor components: 15 percent

Description of Lang

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability (nonirrigated): 4e

Typical profile

0 to 6 inches: Sandy loam 6 to 47 inches: Stratified sand to loamy fine sand 47 to 85 inches: Stratified sand to silt loam

Minor Components

Tyndall

Percent of map unit: 5 percent

Sycamore

Percent of map unit: 4 percent Landform: Alluvial fans

Valdez

Percent of map unit: 4 percent Landform: Alluvial fans

Unnamed

Percent of map unit: 2 percent Landform: Alluvial fans

Lb—Lang sandy loam, deep

Map Unit Setting

Elevation: 10 to 30 feet *Mean annual precipitation*: 18 inches *Mean annual air temperature*: 64 degrees F *Frost-free period*: 280 days

Map Unit Composition

Lang and similar soils: 85 percent Minor components: 15 percent

Description of Lang

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water capacity: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): 3w Land capability (nonirrigated): 4w

Typical profile

0 to 6 inches: Sandy loam 6 to 47 inches: Stratified sand to loamy fine sand 47 to 85 inches: Stratified silty clay loam to clay

Minor Components

Tyndall

Percent of map unit: 5 percent

Sycamore

Percent of map unit: 4 percent Landform: Alluvial fans

Valdez

Percent of map unit: 4 percent

Landform: Alluvial fans

Unnamed

Percent of map unit: 2 percent Landform: Alluvial fans

Lg—Laugenour very fine sandy loam

Map Unit Setting

Elevation: 10 to 50 feet *Mean annual precipitation*: 18 inches *Mean annual air temperature*: 63 degrees F *Frost-free period*: 250 to 330 days

Map Unit Composition

Laugenour and similar soils: 85 percent Minor components: 15 percent

Description of Laugenour

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 11 inches: Very fine sandy loam 11 to 20 inches: Stratified very fine sandy loam to silt loam 20 to 68 inches: Stratified loamy sand to fine sandy loam

Minor Components

Lang

Percent of map unit: 5 percent

Maria

Percent of map unit: 3 percent Landform: Alluvial fans
Tyndall

Percent of map unit: 3 percent

Soboba

Percent of map unit: 2 percent

Unnamed

Percent of map unit: 2 percent Landform: Alluvial fans

Mb—Maria silt loam

Map Unit Setting

Elevation: 10 to 80 feet *Mean annual precipitation*: 18 inches *Mean annual air temperature*: 64 degrees F *Frost-free period*: 280 days

Map Unit Composition

Maria and similar soils: 85 percent Minor components: 15 percent

Description of Maria

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 10.8 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 13 inches: Silt loam 13 to 72 inches: Silt loam

Minor Components

Laugenour

Percent of map unit: 4 percent

Landform: Alluvial fans

Riverwash

Percent of map unit: 4 percent Landform: Alluvial fans

Sycamore

Percent of map unit: 4 percent Landform: Alluvial fans

Merritt

Percent of map unit: 3 percent Landform: Alluvial fans

Md-Maria silt loam, deep

Map Unit Setting

Elevation: 10 to 80 feet *Mean annual precipitation:* 18 inches *Mean annual air temperature:* 64 degrees F *Frost-free period:* 280 days

Map Unit Composition

Maria and similar soils: 85 percent Minor components: 10 percent

Description of Maria

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability (nonirrigated): 4s

Typical profile

0 to 13 inches: Silt loam 13 to 40 inches: Silt loam 40 to 60 inches: Clay

Minor Components

Merritt

Percent of map unit: 10 percent Landform: Alluvial fans

Ra—Reiff very fine sandy loam

Map Unit Setting

Elevation: 30 to 70 feet *Mean annual precipitation:* 10 to 20 inches *Mean annual air temperature:* 61 to 63 degrees F *Frost-free period:* 240 to 275 days

Map Unit Composition

Reiff and similar soils: 85 percent *Minor components*: 15 percent

Description of Reiff

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed coarse-loamy alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Moderate (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 16 inches: Very fine sandy loam 16 to 60 inches: Stratified sandy loam to loam

Minor Components

Yolo

Percent of map unit: 5 percent

Sycamore

Percent of map unit: 4 percent Landform: Alluvial fans

Tyndall

Percent of map unit: 4 percent

Unnamed

Percent of map unit: 2 percent

Rh—Riverwash

Map Unit Setting

Elevation: 0 to 500 feet *Mean annual precipitation:* 17 to 20 inches *Frost-free period:* 230 to 280 days

Map Unit Composition

Riverwash: 85 percent *Minor components:* 15 percent

Description of Riverwash

Setting

Landform: Channels on streams Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed sandy and gravelly alluvium

Properties and qualities

Slope: 0 to 2 percent
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Frequency of flooding: Frequent
Available water capacity: Very low (about 2.9 inches)

Interpretive groups

Land capability (nonirrigated): 8

Typical profile

0 to 6 inches: Gravelly sand 6 to 60 inches: Stratified gravelly coarse sand to sandy loam

Minor Components

Loamy alluvial land

Percent of map unit: 10 percent

Soboba

Percent of map unit: 5 percent

Sa—Sacramento silty clay loam

Map Unit Setting

Elevation: -10 to 60 feet Mean annual precipitation: 17 inches Mean annual air temperature: 61 degrees F Frost-free period: 275 days

Map Unit Composition

Sacramento and similar soils: 85 percent Minor components: 15 percent

Description of Sacramento

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed clayey alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water capacity: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 16 inches: Silty clay loam 16 to 53 inches: Clay 53 to 60 inches: Clay

Minor Components

Merritt

Percent of map unit: 5 percent Landform: Alluvial fans

Omni

Percent of map unit: 5 percent *Landform*: Basin floors

Sycamore

Percent of map unit: 5 percent Landform: Alluvial fans

Sc—Sacramento clay

Map Unit Setting

Elevation: -10 to 60 feet *Mean annual precipitation*: 17 inches Mean annual air temperature: 61 degrees F Frost-free period: 275 days

Map Unit Composition

Sacramento and similar soils: 85 percent Minor components: 15 percent

Description of Sacramento

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed clayey alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water capacity: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 16 inches: Clay 16 to 53 inches: Clay 53 to 60 inches: Clay

Minor Components

Clear lake

Percent of map unit: 3 percent Landform: Basin floors

Merritt

Percent of map unit: 3 percent Landform: Alluvial fans

Omni

Percent of map unit: 3 percent Landform: Basin floors

Willows

Percent of map unit: 3 percent Landform: Basin floors

Sycamore

Percent of map unit: 3 percent

Landform: Alluvial fans

Sd—Sacramento clay, drained

Map Unit Setting

Elevation: -10 to 60 feet *Mean annual precipitation:* 17 inches *Mean annual air temperature:* 61 degrees F *Frost-free period:* 275 days

Map Unit Composition

Sacramento and similar soils: 85 percent Minor components: 15 percent

Description of Sacramento

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed clayey alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water capacity: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability (nonirrigated): 4s

Typical profile

0 to 16 inches: Clay 16 to 53 inches: Clay 53 to 60 inches: Clay

Minor Components

Clear lake

Percent of map unit: 4 percent Landform: Basin floors

Merritt

Percent of map unit: 4 percent Landform: Alluvial fans

Sycamore

Percent of map unit: 4 percent Landform: Alluvial fans

Willows

Percent of map unit: 3 percent Landform: Basin floors

Sg—Sacramento soils, flooded

Map Unit Setting

Elevation: -10 to 60 feet *Mean annual precipitation*: 17 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 275 days

Map Unit Composition

Sacramento and similar soils: 85 percent Minor components: 15 percent

Description of Sacramento

Setting

Landform: Basin floors Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed clayey alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water capacity: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability (nonirrigated): 4w

Typical profile

0 to 16 inches: Silty clay loam 16 to 53 inches: Clay 53 to 60 inches: Clay

Minor Components

Capay

Percent of map unit: 5 percent

Landform: Alluvial fans

Clear lake

Percent of map unit: 5 percent Landform: Basin floors

Willows

Percent of map unit: 5 percent Landform: Basin floors

Sn—Soboba gravelly sandy loam

Map Unit Setting

Elevation: 30 to 400 feet *Mean annual precipitation:* 10 to 20 inches *Mean annual air temperature:* 61 to 63 degrees F *Frost-free period:* 175 to 250 days

Map Unit Composition

Soboba and similar soils: 85 percent Minor components: 15 percent

Description of Soboba

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Recent sandy and gravelly alluvium derived from igneous rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability (nonirrigated): 4s

Typical profile

0 to 4 inches: Gravelly sandy loam 4 to 60 inches: Stratified very cobbly sand to very gravelly loamy sand

Minor Components

Loamy alluvial land

Percent of map unit: 3 percent

Arbuckle

Percent of map unit: 3 percent

Reiff, sandy loam

Percent of map unit: 3 percent

Riverwash

Percent of map unit: 3 percent Landform: Channels

Reiff, gravelly loam

Percent of map unit: 3 percent

So—Sycamore silt loam

Map Unit Setting

Elevation: 0 to 60 feet *Mean annual precipitation:* 15 to 20 inches *Mean annual air temperature:* 61 degrees F *Frost-free period:* 280 days

Map Unit Composition

Sycamore and similar soils: 85 percent Minor components: 15 percent

Description of Sycamore

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 11.4 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 14 inches: Silt loam 14 to 60 inches: Silt loam

Minor Components

Tyndall

Percent of map unit: 4 percent

Merritt

Percent of map unit: 4 percent

Maria

Percent of map unit: 4 percent Landform: Alluvial fans

Yolo

Percent of map unit: 3 percent

Sp—Sycamore silt loam, drained

Map Unit Setting

Elevation: 0 to 60 feet *Mean annual precipitation*: 15 to 20 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 280 days

Map Unit Composition

Sycamore and similar soils: 85 percent Minor components: 15 percent

Description of Sycamore

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 11.4 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 14 inches: Silt loam 14 to 60 inches: Silt loam

Minor Components

Maria

Percent of map unit: 3 percent Landform: Alluvial fans

Valdez

Percent of map unit: 3 percent Landform: Alluvial fans

Merritt

Percent of map unit: 3 percent

Tyndall

Percent of map unit: 3 percent

Yolo

Percent of map unit: 3 percent

Sr—Sycamore silt loam, flooded

Map Unit Setting

Elevation: 0 to 60 feet *Mean annual precipitation*: 15 to 20 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 280 days

Map Unit Composition

Sycamore and similar soils: 85 percent Minor components: 15 percent

Description of Sycamore

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Maximum salinity: Very slightly saline to moderately saline (4.0 to 16.0 mmhos/cm)
Available water capacity: High (about 11.4 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability (nonirrigated): 4w

Typical profile

0 to 14 inches: Silt loam 14 to 60 inches: Silt loam

Minor Components

Maria

Percent of map unit: 4 percent Landform: Alluvial fans

Merritt

Percent of map unit: 4 percent

Tyndall

Percent of map unit: 4 percent

Valdez

Percent of map unit: 3 percent Landform: Alluvial fans

Su—Sycamore complex

Map Unit Setting

Elevation: 0 to 60 feet *Mean annual precipitation*: 15 to 20 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 280 days

Map Unit Composition

Sycamore and similar soils: 60 percent Sycamore and similar soils: 30 percent Minor components: 10 percent

Description of Sycamore

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 10.4 inches)

Interpretive groups

Land capability classification (irrigated): 2w

Land capability (nonirrigated): 4w

Typical profile

0 to 14 inches: Silty clay loam 14 to 44 inches: Silty clay loam 44 to 60 inches: Silty clay

Description of Sycamore

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 14 inches: Silt loam 14 to 44 inches: Silt loam 44 to 60 inches: Silty clay

Minor Components

Sacramento

Percent of map unit: 3 percent Landform: Basin floors

Merritt

Percent of map unit: 3 percent Landform: Alluvial fans

Marvin

Percent of map unit: 3 percent

Unnamed

Percent of map unit: 1 percent

Sv—Sycamore complex, drained

Map Unit Setting

Elevation: 0 to 60 feet

Mean annual precipitation: 15 to 20 inches Mean annual air temperature: 61 degrees F Frost-free period: 280 days

Map Unit Composition

Sycamore and similar soils: 60 percent Sycamore and similar soils: 25 percent Minor components: 13 percent

Description of Sycamore

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 14 inches: Silty clay loam 14 to 44 inches: Silty clay loam 44 to 60 inches: Silty clay

Description of Sycamore

Setting

Landform: Alluvial fans Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: None

Frequency of ponding: None *Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm) *Available water capacity:* High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 14 inches: Silt loam 14 to 44 inches: Silt loam 44 to 60 inches: Silty clay

Minor Components

Marvin

Percent of map unit: 4 percent

Merritt

Percent of map unit: 3 percent Landform: Alluvial fans

Sacramento

Percent of map unit: 3 percent Landform: Alluvial fans

Unnamed

Percent of map unit: 3 percent

Sw—Sycamore complex, flooded

Map Unit Setting

Elevation: 0 to 60 feet *Mean annual precipitation:* 15 to 20 inches *Mean annual air temperature:* 61 degrees F *Frost-free period:* 275 to 300 days

Map Unit Composition

Sycamore and similar soils: 60 percent Sycamore and similar soils: 25 percent Minor components: 13 percent

Description of Sycamore

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr) Depth to water table: About 36 to 72 inches Frequency of flooding: Occasional Frequency of ponding: None Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm) Available water capacity: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability (nonirrigated): 4w

Typical profile

0 to 14 inches: Silty clay loam 14 to 44 inches: Silty clay loam 44 to 60 inches: Silty clay

Description of Sycamore

Setting

Landform: Alluvial flats Landform position (three-dimensional): Talf Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability (nonirrigated): 4w

Typical profile

0 to 14 inches: Silt loam 14 to 44 inches: Silt loam 44 to 60 inches: Silty clay

Minor Components

Marvin

Percent of map unit: 4 percent

Merritt

Percent of map unit: 3 percent Landform: Alluvial fans

Sacramento

Percent of map unit: 3 percent *Landform:* Basin floors

Unnamed

Percent of map unit: 3 percent

Tb—Tyndall very fine sandy loam

Map Unit Setting

Elevation: 0 to 70 feet *Mean annual precipitation:* 17 inches *Mean annual air temperature:* 63 degrees F *Frost-free period:* 280 days

Map Unit Composition

Tyndall and similar soils: 85 percent *Minor components:* 15 percent

Description of Tyndall

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0 mmhos/cm)
Available water capacity: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 16 inches: Very fine sandy loam 16 to 60 inches: Very fine sandy loam

Minor Components

Langenour

Percent of map unit: 3 percent Landform: Alluvial fans

Sycamore

Percent of map unit: 3 percent Landform: Alluvial fans

Unnamed

Percent of map unit: 3 percent

Reiff

Percent of map unit: 3 percent

Lang

Percent of map unit: 3 percent

Tc—Tyndall very fine sandy loam, drained

Map Unit Setting

Elevation: 0 to 70 feet *Mean annual precipitation*: 17 inches *Mean annual air temperature*: 63 degrees F *Frost-free period*: 280 days

Map Unit Composition

Tyndall and similar soils: 85 percent *Minor components*: 13 percent

Description of Tyndall

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0 mmhos/cm)
Available water capacity: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 16 inches: Very fine sandy loam 16 to 60 inches: Very fine sandy loam

Minor Components

Loamy alluvial land Percent of map unit: 4 percent

Sacramento

Percent of map unit: 3 percent Landform: Alluvial fans

Sycamore

Percent of map unit: 3 percent Landform: Alluvial fans

Unnamed

Percent of map unit: 3 percent

Te—Tyndall very fine sandy loam, deep

Map Unit Setting

Elevation: 0 to 70 feet *Mean annual precipitation*: 17 inches *Mean annual air temperature*: 63 degrees F *Frost-free period*: 280 days

Map Unit Composition

Tyndall and similar soils: 85 percent *Minor components*: 13 percent

Description of Tyndall

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0 mmhos/cm)
Available water capacity: High (about 9.4 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability (nonirrigated): 4w

Typical profile

0 to 16 inches: Very fine sandy loam 16 to 40 inches: Very fine sandy loam 40 to 60 inches: Clay

Minor Components

Lang

Percent of map unit: 5 percent

Unnamed

Percent of map unit: 5 percent

Sycamore

Percent of map unit: 3 percent Landform: Alluvial fans

W—Water

Map Unit Composition Water: 100 percent

Ya—Yolo silt loam

Map Unit Setting

Elevation: 30 to 400 feet *Mean annual precipitation*: 16 to 22 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 270 days

Map Unit Composition

Yolo and similar soils: 85 percent Minor components: 14 percent

Description of Yolo

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Fine-loamy alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 11.0 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 26 inches: Silt loam 26 to 65 inches: Silt loam

Minor Components

Sycamore

Percent of map unit: 2 percent Landform: Alluvial fans

Zamora

Percent of map unit: 2 percent

Soboba

Percent of map unit: 2 percent

Reiff

Percent of map unit: 2 percent

Loamy alluvial land

Percent of map unit: 2 percent

Brentwood

Percent of map unit: 2 percent

Arbuckle

Percent of map unit: 2 percent

Yb—Yolo silty clay loam

Map Unit Setting

Elevation: 30 to 400 feet *Mean annual precipitation*: 16 to 22 inches *Mean annual air temperature*: 61 degrees F *Frost-free period*: 270 days

Map Unit Composition

Yolo and similar soils: 85 percent Minor components: 15 percent

Description of Yolo

Setting

Landform: Alluvial fans Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Fine-loamy alluvium derived from sedimentary rock

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None

Frequency of ponding: None *Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm) *Available water capacity:* High (about 11.0 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability (nonirrigated): 4c

Typical profile

0 to 26 inches: Silty clay loam 26 to 65 inches: Silty clay loam

Minor Components

Sycamore

Percent of map unit: 5 percent Landform: Alluvial fans

Zamora

Percent of map unit: 5 percent

Brentwood

Percent of map unit: 5 percent

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Sacramento River Jurisdictional Determination Form

APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. **REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):**

DISTRICT OFFICE, FILE NAME, AND NUMBER: В.

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:CA County/parish/borough: Yolo, Sutter City: n/a Center coordinates of site (lat/long in degree decimal format): Lat. 38°N, Long. 121°W. Universal Transverse Mercator: 613377 4287987

Name of nearest waterbody: Sacramento River

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Sacramento River Name of watershed or Hydrologic Unit Code (HUC): Sacramento River

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

 \square Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

- Waters subject to the ebb and flow of the tide.
- Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: The Sacramento River crosses through the project site and is used for interstate and foreign commerce.

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

- 1. Waters of the U.S.
 - a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - TNWs, including territorial seas \boxtimes
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters
 - Isolated (interstate or intrastate) waters, including isolated wetlands
 - b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 67918.152 linear feet: width (ft) and/or 34.141 acres. Wetlands: 7.605 acres.
 - c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):unknown.
- 2. Non-regulated waters/wetlands (check if applicable):³
 - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Irrigation ditches privately used by farmers which carry water only into fields for irrigation and roadside ditches which did not hold a signifigant amount of water were determined not to be jurisdictional.

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: Sacramento River, evaluated further in separate JD form.

Summarize rationale supporting determination: It is a known TNW.

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent": Riparian habitat within 50 feet of Sacramento River.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 27000 sac river square miles Drainage area: 1680 acres Average annual rainfall: 20.78 inches Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☑ Tributary flows directly into TNW.
 ☑ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are 1 (or less) river miles from TNW.
Project waters are 1 (or less) river miles from RPW.
Project waters are 1 (or less) aerial (straight) miles from TNW.
Project waters are 1 (or less) aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: n/a.

Identify flow route to TNW⁵: Irrigation canals flow through a culvert into the Sacramento River. Tributary stream order, if known: n/a.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b)	General Tri	ibutary Char	acteristics (check all	that apply):	

- Tributary is: Natural
 - Artificial (man-made). Explain: water is diverted from the Sacramento River. Manipulated (man-altered). Explain: converted to irrigation canal.

Tributary properties with respect to top of bank (estimate):

Average	wi	dth:	35	feet	

Average depth: unk feet Average side slopes: 2:1.

Primary tributary substrate composition (check all that apply):

⊠ Silts	🖾 Sands	
Cobbles	Gravel	Muck
Bedrock	Vegetation.	Type/% cover: Ludwigia peploides (40%)
Other. Explain:		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Banks are man-made including levees. Presence of run/riffle/pool complexes. Explain: Due to the highly disturbed nature of the tributaries, complete run/riffle/pool complexes are not present.

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	Tributary geometry:	Relatively	straight

Tributary gradient (approximate average slope): 2 %

(c) Flow:

Tributary provides for:	Intermittent but not	seasonal flow
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Estimate average number of flow events in review area/year: 20 (or greater)

Describe flow regime: Water in the irrigation ditch is actively pumped during the growing season for crops.

Other information on duration and Volume:
Surface flow is: Discrete and confined. Characteristics:
Subsurface flow: Unknown . Explain findings: Dye (or other) test performed:
Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank the presence of litter and debris changes in the character of soil destruction of terrestrial vegetation shelving the character of soil the presence of wrack line shelving the character of soil sectors leaf litter disturbed or washed away scour sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): Discontinuous OHWM. ⁷ Explain: No ordinary high water mark water regularly manipulated for use in
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: O oil or scum line along shore objects High Vater Mark indicated by: High Vater Mark indicated by: Hi

on or sourn line along shore objects	
fine shell or debris deposits (foreshore)	physical markings;
physical markings/characteristics	vegetation lines/changes in vegetation types.
tidal gauges	
other (list):	

(iii) Chemical Characteristics:

irrigation.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: slightly turbid slow-moving water.

Identify specific pollutants, if known: unknown.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): 30 feet.
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings: migratory birds.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
- (b) <u>General Flow Relationship with Non-TNW:</u> Flow is: **Pick List**. Explain:

Surface flow is: Pick List Characteristics:

Subsurface flow: **Pick List**. Explain findings: Dye (or other) test performed:

- (c) Wetland Adjacency Determination with Non-TNW:
 - Directly abutting
 - Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - Ecological connection. Explain:
 - Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: **Pick List**. Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:

Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings: Riparian habitat protected by CEQA.
 - Aquatic/wildlife diversity. Explain findings:observed migratory song birds.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List** Approximately () acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed: water filtration, wildlife habitat.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), Or, 12.290 acres.
 Wetlands adjacent to TNWs: acres.
- 2. RPWs that flow directly or indirectly into TNWs.
 - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Canals provide irrigation water for agricultural fields during the growing season and provide for flood control.
 - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 - Other non-wetland waters: 21.851 acres.
 - Identify type(s) of waters: irrigation canals and roadside ditches with significant flow and connectivity.

Non-RPWs⁸ that flow directly or indirectly into TNWs. 3.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

acres.

- Tributary waters: lin Other non-wetland waters: linear feet width (ft).
- - Identify type(s) of waters:
- Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. 4.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: The riparian wetland (WF 121w) directly abuts the RPW Old River at Gray's Bend which flows directly into the Sacramento River. Old River flows year round and is fed by the Sacramento River.
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: 7.605 acres.

- 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.
 - Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

Impoundments of jurisdictional waters.⁹ 7.

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
 - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
 - Demonstrate that water is isolated with a nexus to commerce (see E below).
- E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰
 - which are or could be used by interstate or foreign travelers for recreational or other purposes.
 - from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
 - which are or could be used for industrial purposes by industries in interstate commerce.
 - Interstate isolated waters. Explain:
 - Other factors. Explain:

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Identify	water	body	and	summarize	rationale	sunnorting	determination:
A COVARVAN,		~~~~		IS SEARARANTER BASE	A COULD AROUND	New Prove Care	COULD ANALANCO CA CAAT

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: All the nonjurisdictional (NJ) roadside ditches and irrigation canals nearby the Sacramento River do not appear to make any connection to a juricdictional water body and only flow into agricultural fields. The roadside ditches are created in uplands and are only used to collect runoff from the roads and do not contain a significant amount of flow to create a significant nexus and do not form a connection to a jurisdictional water body.

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

Lakes/ponds: acres.

Other non-wetland waters: 3.46 acres. List type of aquatic resource: irrigation and roadside ditches which have no connectivity and/or no significant flow.

Wetlands: acres.

SECTION IV: DATA SOURCES.

A.	SUPI	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
	and	requested, appropriately reference sources below):
	No.	Maps, plans, plots or plat submitted by or on benalt of the applicant/consultant:
	\bowtie	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
		Office concurs with data sheets/delineation report.
	100	Office does not concur with data sheets/delineation report.
		Data sheets prepared by the Corps:
		Corps navigable waters' study:
		U.S. Geological Survey Hydrologic Atlas:
	Are and	USGS NHD data.
		USGS 8 and 12 digit HUC maps.
	\square	U.S. Geological Survey map(s). Cite scale & quad name: Delineation of Waters of the U.S. document.
	\bowtie	USDA Natural Resources Conservation Service Soil Survey. Citation: Delineation of Waters of the U.S. document.
		National wetlands inventory map(s). Cite name:
		State/Local wetland inventory map(s):
		FEMA/FIRM maps:
		100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	\square	Photographs: 🖾 Aerial (Name & Date): Delineation of Waters of the U.S. document.
		or 🛛 Other (Name & Date): Delineation of Waters of the U.S. document.
		Previous determination(s). File no. and date of response letter:
		Applicable/supporting case law:

Applicable/supporting scientific literature: Delineation of Waters of the U.S. document.

Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: On the east side of the Sacramento River, the RPW irrigation canals flowing through the survey area all lead into either the West Drainage Canal or the East Drainage Canal. These two canals merge to form the Natomas Main Drainage Canal which flows directly into the Sacramento River.

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Tule Canal Jurisdictional Determination Form
APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. **REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):**

DISTRICT OFFICE, FILE NAME, AND NUMBER: В.

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:CA County/parish/borough: Yolo, Sutter City: n/a Center coordinates of site (lat/long in degree decimal format): Lat. 38.73417° N. Long. -121.70361° W. Universal Transverse Mercator: 613377 4287987

Name of nearest waterbody: Sacramento River

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Sacramento River Name of watershed or Hydrologic Unit Code (HUC): Sacramento River

 \square Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

- Waters subject to the ebb and flow of the tide.
- Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: The Sacramento River crosses through the project site and is used for interstate and foreign commerce.

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

- 1. Waters of the U.S.
 - a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - TNWs, including territorial seas \boxtimes
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters
 - Isolated (interstate or intrastate) waters, including isolated wetlands
 - b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 33939.501linear feet: width (ft) and/or 36.115 acres. Wetlands: 12.435 acres.
 - c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):unknown.
- 2. Non-regulated waters/wetlands (check if applicable):³
 - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Irrigation ditches privately used by farmers which carried water only into fields for irrigation and roadside ditches which did not hold a signifigant amount of water were determined not to be jurisdictional.

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: Sacramento River, evaluated further in separate JD form.

Summarize rationale supporting determination: It is a known TNW.

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 27000square miles Drainage area: 1680 acres Average annual rainfall: 20.78 inches Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ⊠ Tributary flows through 2 tributaries before entering TNW.

Project waters are 5-10 river miles from TNW.
Project waters are 2-5 aerial (straight) miles from TNW.
Project waters are 1 (or less) aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: n/a.

Identify flow route to TNW⁵: Irrigation canals flow into Knights Landing Ridge Cut. Water then flows from the Knights Landing Ridge Cut, to Tule Canal, to the Sacramento River.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known: n/a.

(b)	General Tributary Characteristics (check all that apply): Tributary is: Natural Xartificial (man-made). Explain: water is diverted from the Sacramento River. Manipulated (man-altered). Explain: converted to irrigation canal.
	Tributary properties with respect to top of bank (estimate): Average width: 115 feet Average depth: unk feet Average side slopes: 2:1 .
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Ludwigia peploides (40%) Other. Explain: .
run/riffle/pool	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Banks are man-made including levees. Presence of run/riffle/pool complexes. Explain: Due to the highly disturbed nature of the tributaries, complete complexes are not present. Tributary geometry: Relatively straight Tributary gradient (approximate average slope): 2 %
(c) pumped durin	Flow: Tributary provides for: Intermittent but not seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Knights Landing Ridge Cut provides flood control, and water in the Ridge Cut is actively g the growing season for crops. Other information on duration and volume:
	Surface flow is: Discrete and confined. Characteristics:
	Subsurface flow: Unknown . Explain findings:
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving shelving vegetation matted down, bent, or absent sediment down, bent, or absent sediment deposition sediment deposition water staining other (list): Discontinuous OHWM. ⁷ Explain:No ordinary high water mark, water regularly manipulated for irigation.
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Image: Mean High Water Mark indicated by: oil or scum line along shore objects Image: Survey to available datum; fine shell or debris deposits (foreshore) Image: Deposite other that apply is a markings/characteristics tidal gauges other (list):
(iii) Che	emical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: slightly turbid slow-moving water.

Identify specific pollutants, if known: unknown.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): 30 feet.
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings: migratory birds.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: 3.152 acres Wetland type. Explain:Riparian. Wetland quality. Explain:moderate. Project wetlands cross or serve as state boundaries. Explain: n/a.
- (b) <u>General Flow Relationship with Non-TNW:</u> Flow is: **No Flow**. Explain:

Surface flow is: **Overland sheetflow** Characteristics:

Subsurface flow: **Unknown**. Explain findings:

- (c) <u>Wetland Adjacency Determination with Non-TNW:</u>
 - Directly abutting
 - □ Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - Ecological connection. Explain:
 - Separated by berm/barrier. Explain:

(d) <u>Proximity (Relationship) to TNW</u>

Project wetlands are **5-10** river miles from TNW. Project waters are **2-5** aerial (straight) miles from TNW. Flow is from: **Wetland to/from navigable waters.** Estimate approximate location of wetland as within the **2-year or less** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: no standing water at time of delineation. Identify specific pollutants, if known: unknown.

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings: Riparian habitat protected by CEQA.
 - Aquatic/wildlife diversity. Explain findings:observed migratory song birds.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List** Approximately () acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed: water filtration, wildlife habitat.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
- 2. RPWs that flow directly or indirectly into TNWs.
 - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Canals provide irrigation water for agricultural fields during the growing season and provide for flood control.
 - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: unknown linear feet115width (ft).
 - Other non-wetland waters: 0acres.

Identify type(s) of waters: riparian.

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: 0.328 acres.
 - Identify type(s) of waters: irrigation ditches.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: A riparian corridor exists along the banks of the Tule Canal.

Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: 3.152 acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- Demonstrate that impoundment was created from "waters of the U.S.," or
 - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain:
- Other factors. Explain:

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that appl	Provide estimates	for jurisdictional	waters in the review area	(check all	that apply
-------------------------------------------------------------------------------------	-------------------	--------------------	---------------------------	------------	------------

Tributary waters: linear feet width (ft).

- S		
Ľ	Other nen metland motors:	0.0100
Ł	Other non-wettand waters.	acres.

Identify type(s) of waters:

Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
- Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: All the nonjurisdictional (NJ) roadside ditches and irrigation canals nearby the Tule Canal do not appear to make any connection to a juricdictional water body and only flow into agricultural fields.

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource: 1.

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: 3.46 acres. List type of aquatic resource: irrigation and roadside ditches.
 - Wetlands: acres.

SECTION IV: DATA SOURCES.

- A. SUPPORTING DATA. Data reviewed for JD (check all that apply checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
 - Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
 - Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
 - Data sheets prepared by the Corps:
 - Corps navigable waters' study:
 - U.S. Geological Survey Hydrologic Atlas:
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
 - U.S. Geological Survey map(s). Cite scale & quad name: Delineation of Waters of the U.S. document.
 - USDA Natural Resources Conservation Service Soil Survey. Citation: Delineation of Waters of the U.S. document.
 - National wetlands inventory map(s). Cite name:

State/Local wetland inventory map(s):

FEMA/FIRM maps:

100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): Delineation of Waters of the U.S. document.

or \boxtimes Other (Name & Date): Delineation of Waters of the U.S. document .

- Previous determination(s). File no. and date of response letter:
- Applicable/supporting case law:
- Applicable/supporting scientific literature: Delineation of Waters of the U.S. document.
- Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: Tule Canal does not have a watershed or drainage area since water is pumped in and out of the feature. The review area is assumed to be the entire project area, features discussed in this JD form are associated with Tule Canal.

Knights Landing Ridge Cut Jurisdictional Determination Form

APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. **REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):**

DISTRICT OFFICE, FILE NAME, AND NUMBER: В.

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:CA County/parish/borough: Yolo, Sutter City: n/a Center coordinates of site (lat/long in degree decimal format): Lat. 38°N, Long. 121°W. Universal Transverse Mercator: 613377 4287987

Name of nearest waterbody: Sacramento River

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Sacramento River Name of watershed or Hydrologic Unit Code (HUC): Sacramento River

 \square Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

- Waters subject to the ebb and flow of the tide.
- Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: The Sacramento River crosses through the project site and is used for interstate and foreign commerce.

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

- 1. Waters of the U.S.
 - a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - TNWs, including territorial seas \boxtimes
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters
 - Isolated (interstate or intrastate) waters, including isolated wetlands
 - b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 33939.501linear feet: width (ft) and/or 36.115 acres. Wetlands: 12.435 acres.
 - c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):unknown.
- 2. Non-regulated waters/wetlands (check if applicable):³
 - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Irrigation ditches privately used by farmers which carry water only into fields for irrigation and roadside ditches which did not hold a signifigant amount of water were determined not to be jurisdictional.

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: Sacramento River, evaluated further in separate JD form.

Summarize rationale supporting determination: It is a known TNW.

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 27000square miles Drainage area: 1680 acres Average annual rainfall: 20.78 inches Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ⊠ Tributary flows through 3 tributaries before entering TNW.

Project waters are 5-10 river miles from TNW.
Project waters are 1 (or less) river miles from RPW.
Project waters are 2-5 aerial (straight) miles from TNW.
Project waters are 1 (or less) aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: n/a.

Identify flow route to TNW⁵: Irrigation canals flow into Knights Landing Ridge Cut. Water then flows from the Knights Landing Ridge Cut, to Tule Canal, to the Sacramento River.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known: n/a.

(b)	<u>General Tributary C</u>	Tharacteristics (check all that apply)	<u>y):</u>
	Thouary 15.	Artificial (man-made). Explair Manipulated (man-altered). Ex	in: water is diverted from the Sacramento River. Explain: converted to irrigation canal.
	Tributary propertie Average width Average depth Average side s	es with respect to top of bank (estin : 115 feet : unk feet lopes: 2:1.	mate):
	Primary tributary su Silts Cobbles Bedrock Other. Expl	ubstrate composition (check all that	at apply): Concrete Muck 6 cover: Ludwigia peploides (40%)
run/riffle/pool	Tributary condition Presence of run/riffl complexes are not p Tributary geometry. Tributary gradient (/stability [e.g., highly eroding, slou le/pool complexes. Explain: Due to resent. : Relatively straight approximate average slope): 2 %	ughing banks]. Explain: Banks are man-made including levees. to the highly disturbed nature of the tributaries, complete
(c) pumped durin	Flow: Tributary provides f Estimate average nu Describe flow g the growing season Other information o	for: Intermittent but not seasonal imber of flow events in review area regime: Knights Landing Ridge Cu i for crops. on duration and volume:	al flow ea/year: 20 (or greater) out provides flood control, and water in the Ridge Cut is actively
	Surface flow is: Dis	screte and confined. Characteristic	ics: .
	Subsurface flow: Un	nknown . Explain findings: . .er) test performed:	
irrigation.	Tributary has (checl Bed and ba OHWM ⁶ (c clear, r change shelvin Vegetat leaf litt sedime water s other (l Discontinue	k all that apply): nks sheck all indicators that apply): natural line impressed on the bank es in the character of soil ng tion matted down, bent, or absent ter disturbed or washed away ent deposition staining list): ous OHWM. ⁷ Explain: No ordinary	 the presence of litter and debris destruction of terrestrial vegetation the presence of wrack line sediment sorting scour multiple observed or predicted flow events abrupt change in plant community ry high water mark water regularly manipulated for use in
	If factors other than High Tide oil or s fine sh physica tidal ga other (1	the OHWM were used to determine Line indicated by:	ine lateral extent of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
(iii) Che Cha	mical Characteristi racterize tributary (e.	ics: .g., water color is clear, discolored,	l, oily film; water quality; general watershed characteristics, etc.)

Explain: slightly turbid slow-moving water. Identify specific pollutants, if known: unknown.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): 30 feet.
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings: migratory birds.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: 3.971 acres Wetland type. Explain:Riparian. Wetland quality. Explain:moderate. Project wetlands cross or serve as state boundaries. Explain: n/a.
- (b) <u>General Flow Relationship with Non-TNW:</u> Flow is: **No Flow**. Explain:

Surface flow is: **Overland sheetflow** Characteristics:

Subsurface flow: Unknown. Explain findings: Dye (or other) test performed:

- (c) <u>Wetland Adjacency Determination with Non-TNW:</u>
 - Directly abutting
 - □ Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - Ecological connection. Explain:
 - Separated by berm/barrier. Explain:

(d) <u>Proximity (Relationship) to TNW</u>

Project wetlands are **5-10** river miles from TNW. Project waters are **2-5** aerial (straight) miles from TNW. Flow is from: **Wetland to/from navigable waters.** Estimate approximate location of wetland as within the **2-year or less** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: no standing water at time of delineation. Identify specific pollutants, if known: unknown.

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings: Riparian habitat protected by CEQA.
 - Aquatic/wildlife diversity. Explain findings:observed migratory song birds.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List** Approximately (3.971) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed: water filtration, wildlife habitat.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
- 2. RPWs that flow directly or indirectly into TNWs.
 - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Canals provide irrigation water for agricultural fields during the growing season and provide for flood control.
 - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: 31,680 linear feet115 width (ft).
 - Other non-wetland waters: 0acres.

Identify type(s) of waters: riparian.

Non-RPWs⁸ that flow directly or indirectly into TNWs. 3.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

acres.

- linear feet width (ft).
- Tributary waters: lir Other non-wetland waters:
 - Identify type(s) of waters:
- Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. 4.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: A riparian corridor exists along the banks of the Knights Landing Ridge Cut and the main tributary to the Knights Landing Ridge Cut (OW 06).
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: 3.971 acres.

- 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.
 - Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

Impoundments of jurisdictional waters.⁹ 7.

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
 - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
 - Demonstrate that water is isolated with a nexus to commerce (see E below).
- E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰
 - which are or could be used by interstate or foreign travelers for recreational or other purposes.
 - from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
 - which are or could be used for industrial purposes by industries in interstate commerce.
 - Interstate isolated waters. Explain:
 - Other factors. Explain:

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Т	das	4:6.		he dr	and	anna ania	notionale	common a setting of	determination
1	uer	nny	water	DOUY	anu	summarize	rationale	supporting	determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: lin	near feet width (fl	t).
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Other non-wetland waters: acres.

- Identify type(s) of waters:
- Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: All the nonjurisdictional (NJ) roadside ditches and irrigation canals nearby the Knights Landing Ridge Cut do not appear to make any connection to a juricdictional water body and only flow into agricultural fields. The roadside ditches are created in uplands and are only used to collect runoff from the roads and do not contain a significant amount of flow to create a significant nexus and do not form a connection to a jurisdictional water body.

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource: irrigation and roadside ditches.

Wetlands: acres.

SECTION IV: DATA SOURCES.

- A. SUPPORTING DATA. Data reviewed for JD (check all that apply checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
 - Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
 - Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
 - Data sheets prepared by the Corps:
 - Corps navigable waters' study:
 - U.S. Geological Survey Hydrologic Atlas:
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
 - U.S. Geological Survey map(s). Cite scale & quad name: Delineation of Waters of the U.S. document.
 - USDA Natural Resources Conservation Service Soil Survey. Citation: Delineation of Waters of the U.S. document.
 - National wetlands inventory map(s). Cite name:
 - State/Local wetland inventory map(s):

FEMA/FIRM maps:

100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

- Photographs: 🛛 Aerial (Name & Date): Delineation of Waters of the U.S. document.
 - or \boxtimes Other (Name & Date): Delineation of Waters of the U.S. document.
- Previous determination(s). File no. and date of response letter:
- Applicable/supporting case law:
- Applicable/supporting scientific literature: Delineation of Waters of the U.S. document.
- Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: Knights Landing Ridge Cut does not have a watershed or drainage area since water is pumped in and out of the feature. The review area is assumed to be the entire project area, features discussed in this JD form are associated with Knights Landing Ridge Cut.

Natomas East Main Drainage Jurisdictional Determination Form

APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. **REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):**

DISTRICT OFFICE, FILE NAME, AND NUMBER: В.

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:CA County/parish/borough: Placer/Sutter City: Center coordinates of site (lat/long in degree decimal format): Lat. 38.7522° N, Long. 121.4331° W. Universal Transverse Mercator: 10

Name of nearest waterbody: Natomas East Main Drainage

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: American River Name of watershed or Hydrologic Unit Code (HUC): 18020111 and 18020127

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

- 1. Waters of the U.S.
 - a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - TNWs, including territorial seas
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters
 - Isolated (interstate or intrastate) waters, including isolated wetlands
 - b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or 4.692 acres. Wetlands: 33.861 acres.
 - c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known): Approximately 4 feet.
- 2. Non-regulated waters/wetlands (check if applicable):³
 - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Roadside ditches which did not form a direct connection with jurisdictional features, only contain water

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

runoff from adjacent roads, and did not hold a significant amount of water to satisfy the significant nexus determination were determined to be non-jurisdictional.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: no TNWs are present in the eastern portion of this project.

Summarize rationale supporting determination:

Wetland adjacent to TNW 2.

Summarize rationale supporting conclusion that wetland is "adjacent": n/a.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

Characteristics of non-TNWs that flow directly or indirectly into TNW 1

(i) General Area Conditions:

Watershed size: approximately 245.828 square miles Drainage area: the eastern most portion of the project area drains approximately 2.5 square miles Average annual rainfall: 20.78 inches Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u> Tributary flows directly into TNW. Tributary flows through 2 tributaries before entering TNW.

Project waters are20-25 river miles from TNW.Project waters are5-10 river miles from RPW.

Project waters are **10-15** aerial (straight) miles from TNW.

Project waters are 2-5 aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: No, but Natomas East Main Drainage serves as the county line between Sutter and Placer Counties.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to TNW⁵: Other waters onsite flow directly into Natomas East Main Drainage which then flows directly into the American River. Wetlands in the project area abutt or are adjacent to Curry Creek or other unnamed drainages in the area which then flow into Natomas East Main Drainage. Tributary stream order, if known: 3.

Manipulated (man-altered). Explain: the waters onsite are natural but their courses have been

changed due t significantly s	o agricultural grading and residential building construction. The Natomas East Main Drainage in particular has been traightened and is confined by levees.						
	Tributary properties with respect to top of bank (estimate): Average width: 6 feet Average depth: 3 feet Average side slopes: Vertical (1:1 or less).						
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Typha ssp. (100%) Other. Explain: .						
channels	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: the water is slow moving due to the presence of vegetation in the						
chamers.	Tributary geometry: Relatively straight Tributary gradient (approximate average slope): 2 %						
 (c) <u>Flow:</u> Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: The Natomas East Main Drainage collects water from natural tributaries and irrigation canals as well, so water is present in the Drainage year round due to the irrigation of agricultural crops produced nearby. Curry Creek, the tributary of Natomas East Main Drainage, has an intermittent but not seasonal flow of water. Other information on duration and volume: 							
	Surface flow is: Discrete and confined. Characteristics:						
	Subsurface flow: Unknown. Explain findings:						
	Tributary has (check all that apply): Image: Section of the section of the section of the presence of litter and debris Section of the character of soil Image: Section of the section of the section of the presence of wrack line Section matted down, bent, or absent Image: Section matted down, bent, or absent Image: Section matted down, bent, or absent Sectiment deposition Image: Sectiment deposition Image: Sectiment deposition						
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) High Tide Line indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Difference of CWA jurisdiction (check all that apply): Difference of CWA jurisdiction (check all that apply): Difference of CWA jurisdiction (check all that apply): Mean High Water Mark indicated by: Difference of CWA jurisdiction (check all that apply): Difference of CWA jurisdiction (check all that apply): Difference of CWA jurisdiction (check a						

vegetation lines/changes in vegetation types.

physical markings/characteristics

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW. ⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.



(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water is slow moving and brown (not clear) due to the inflow of sediments from agricultural and overland runoff.

Identify specific pollutants, if known: Probably chemicals used during agriculture production and runoff from roads.

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings: Migratory birds most likely utilize the area.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u>
 - Properties:
 - Wetland size: acres

Wetland type. Explain: Types found wihtin the project area include vernal pools, seasonal wetlands, and seasonal

swales.

Wetland quality. Explain: Wetland quality onsite is fair due to the proximity to Riego Road which can cause

pollutants to settle in the wetlands.

Project wetlands cross or serve as state boundaries. Explain: No.

(b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Ephemeral flow**. Explain:

Surface flow is: Discrete and confined Characteristics:

Subsurface flow: Unknown. Explain findings: Dye (or other) test performed:

- (c) Wetland Adjacency Determination with Non-TNW:
 - Directly abutting
 - Not directly abutting

Discrete wetland hydrologic connection. Explain: The wetland features on the north side of Riego Road flow discretely into Curry Creek and the wetlands on the south side of Riego Road flow discretely into Dry Creek, a tributary of Natomas East Main Drainage.

- Ecological connection. Explain:
- Separated by berm/barrier. Explain:
- (d) Proximity (Relationship) to TNW

Project wetlands are **10-15** river miles from TNW. Project waters are **5-10** aerial (straight) miles from TNW. Flow is from: **Wetland to navigable waters**. Estimate approximate location of wetland as within the **500-year or greater** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Water in the wetlands was clear but occationally contained debris/trash from the nearby road.

Identify specific pollutants, if known: unknown - from runoff from the roads.

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:

Federally Listed species. Explain findings: A few of the vernal pools onsite were determined to contain vernal pool

invertebrates.

Fish/spawn areas. Explain findings:

☐ Other environmentally-sensitive species. Explain findings: ☐ Aquatic/wildlife diversity. Explain findings:

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **30 (or more)** Approximately (33.861) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Ľ	<u>irectly abuts? (Y/N)</u> WF 08e-14e, 17e-18e, 20e	<u>Size (in acres)</u> e, 22e-33e, 116e-117e - Ye	<u>Directly abuts? (Y/N)</u> s they abut Curry Creek	<u>Size (in acr</u> 5.395 ac	<u>es)</u>
	WF 124e-134e, 90e-92e, 1	12e - Yes they abut Naton	nas East Main Drainage	15.341 ac	2
	WF 51e-56e - Yes they ab	out an unnamed tributary (C	DW 64)	1.637 ac	
	WF 01e-07e, 15e-16e, 34e 118e - No they are a	e-49e, 58e, 63e-64e, 66e-7: adjacent to Dry Creek	5e, 106e, 111e, 113e, 115e,	9.415 ac	
	WF 50e, 57e, 59e, 60e-62e	e, 110e, 114e - No they are	e adjacent to Curry Creek	0.593 ac	
	WF 77e-89e, 94e, 107e-10 Drainage	09e, 119e-120e - No they a	re adjacent to Natomas East M	1ain 1.480 ac	

Summarize overall biological, chemical and physical functions being performed: These wetland features collect water during flooding events and during precipitation events which helps to filter the runoff from pollutants.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- **3.** Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.

2. <u>RPWs that flow directly or indirectly into TNWs.</u>

- Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
- Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

acres

Tributary waters: **3515.88** linear feet width (ft).

Other non-wetland waters:

Identify type(s) of waters:

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: **489.788** linear feet width (ft).
- Other non-wetland waters: 18363.96 linear feet acres.
 - Identify type(s) of waters: Roadside ditches and ephemeral drainages leading to wetlands.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: 22.373 acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: 11.488 acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
 - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

E.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): ¹⁰ which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
	Identify water body and summarize rationale supporting determination:
	 Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: . Wetlands: acres.
F.	 NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in <i>"SWANCC</i>," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:roadside ditches. Other: (explain, if not covered above):
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.
	 Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: 12459.26 linear feet acres. List type of aquatic resource: Roadside ditches. Wetlands: acres.
<u>SE0</u> A.	CTION IV: DATA SOURCES. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Data sheets prepared/submitted by or on behalf of the applicant/consultant.
- - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps:
- Corps navigable waters' study:
- U.S. Geological Survey Hydrologic Atlas:
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name:

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¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

 USDA Naturai Activity
 National wetlands inventory map(s):
 State/Local wetland inventory map(s):
 FEMA/FIRM maps:
 100-year Floodplain Elevation is: (N
 Photographs: A crial (Name & Date): or ⊠ Other (Name & Date):
 determination(s). File no. and c USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name: . (National Geodectic Vertical Datum of 1929) Previous determination(s). File no. and date of response letter: • Applicable/supporting scientific literature: .

Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: This jurisdictional form only addresses Waters of the U.S. on the eastern end of the project area. Additionally, WF 124e-134e all drain into C 122 and are hence directly connected to the Natomas East Main Drainage .

Appendix C. Delineation Acreage Totals

			Avg.			
Type	Designation	Label	Width (ft.)	Length (ft.)	Area (ft. ²)	Acres
Wetland Features	<u> </u>			<u> </u>		
Fresh Emergent Wetla	Abuttina	WF018e	n/a	n/a	119915.713	2.753
Fresh Emergent Wetla	Adiacent	WF063e	n/a	n/a	7051.716	0.162
Fresh Emergent Wetla	Abuttina	WF112e	n/a	n/a	14761.418	0.339
Fresh Emergent Wetla	Abuttina	WF112e	n/a	n/a	14070.109	0.323
Riparian	Abuttina	WF054e	n/a	n/a	7576.328	0.174
Riparian	Adiacent	WF111e	n/a	n/a	1885.866	0.043
Riparian	Abuttina	WF01w	n/a	n/a	61348.533	1.408
Riparian	Abuttina	WF02w	n/a	n/a	32497.179	0.746
Riparian	Abuttina	WF03w	n/a	n/a	46777.921	1.074
Riparian	Abutting	WF04w	n/a	n/a	32365.323	0.743
Riparian	Abutting	WF05w	n/a	n/a	89500.921	2.055
Riparian	Abuttina	WF06w	n/a	n/a	47804.003	1.097
Riparian	Abutting	WF07w	n/a	n/a	20635.668	0.474
Riparian	Abutting	WF08w	n/a	n/a	127869.244	2.935
Riparian	Abutting	WF121w	n/a	n/a	68205.880	1.566
Riparian	Abutting	WF122w	n/a	n/a	107894.434	2.477
Riparian	Abutting	WF123w	n/a	n/a	72303.230	1.660
Seasonal Swale	Adiacent	WF002e	n/a	n/a	4290.700	0.099
Seasonal Swale	Abutting	WF022e	n/a	n/a	13090.389	0.301
Seasonal Swale	Abutting	WF023e	n/a	n/a	5649.693	0.130
Seasonal Swale	Abutting	WF025e	n/a	n/a	9157.076	0.210
Seasonal Swale	Abutting	WF030e	n/a	n/a	4324.830	0.099
Seasonal Swale	Abutting	WF033e	n/a	n/a	4325.135	0.099
Seasonal Swale	Adjacent	WF064e	n/a	n/a	18899.784	0.434
Seasonal Swale	Adjacent	WF081e	n/a	n/a	1829.801	0.042
Seasonal Swale	Adjacent	WF087e	n/a	n/a	8261.508	0.190
Seasonal Swale	Adjacent	WF113e	n/a	n/a	15124.908	0.347
Seasonal Swale	Adjacent	WF114e	n/a	n/a	6937.802	0.159
Seasonal Wetland	Adjacent	WF001e	n/a	n/a	2153.707	0.049
Seasonal Wetland	Adjacent	WF007e	n/a	n/a	46738.859	1.073
Seasonal Wetland	Abutting	WF026e	n/a	n/a	3856.908	0.089
Seasonal Wetland	Abutting	WF029e	n/a	n/a	706.882	0.016
Seasonal Wetland	Adjacent	WF046e	n/a	n/a	39320.039	0.903
Seasonal Wetland	Adjacent	WF048e	n/a	n/a	58161.835	1.335
Seasonal Wetland	Adjacent	WF049e	n/a	n/a	55883.750	1.283
Seasonal Wetland	Adjacent	WF050e	n/a	n/a	5250.852	0.121
Seasonal Wetland	Abutting	WF051e	n/a	n/a	7853.007	0.180
Seasonal Wetland	Abutting	WF052e	n/a	n/a	13233.125	0.304
Seasonal Wetland	Abutting	WF053e	n/a	n/a	7501.482	0.172
Seasonal Wetland	Abutting	WF055e	n/a	n/a	8512.286	0.195
Seasonal Wetland	Abutting	WF056e	n/a	n/a	26626.948	0.611
Seasonal Wetland	Adjacent	WF059e	n/a	n/a	3844.809	0.088
Seasonal Wetland	Adjacent	WF060e	n/a	n/a	1999.442	0.046
Seasonal Wetland	Adjacent	WF061e	n/a	n/a	2188.812	0.050
Seasonal Wetland	Adjacent	WF062e	n/a	n/a	2082.430	0.048
Seasonal Wetland	Adjacent	WF068e	n/a	n/a	2750.279	0.063
Seasonal Wetland	Adjacent	WF079e	n/a	n/a	1714.649	0.039
Seasonal Wetland	Adjacent	WF080e	n/a	n/a	5974.891	0.137

			Avg.		_	
Туре	Designation	Label	Width (ft.)	Length (ft.)	Area (ft. ²)	Acres
Seasonal Wetland	Adjacent	WF088e	n/a	n/a	4917.411	0.113
Seasonal Wetland	Adjacent	WF094e	n/a	n/a	914.343	0.021
Seasonal Wetland	Adjacent	WF107e	n/a	n/a	193.202	0.004
Seasonal Wetland	Adjacent	WF108e	n/a	n/a	381.044	0.009
Seasonal Wetland	Adjacent	WF109e	n/a	n/a	193.018	0.004
Seasonal Wetland	Adjacent	WF110e	n/a	n/a	1867.438	0.043
Seasonal Wetland	Abutting	WF124e	n/a	n/a	96079.770	2.206
Seasonal Wetland	Abutting	WF125e	n/a	n/a	106408.337	2.443
Seasonal Wetland	Abutting	WF126e	n/a	n/a	102832.983	2.361
Seasonal Wetland	Abutting	WF127e	n/a	n/a	46843.234	1.075
Seasonal Wetland	Abutting	WF128e	n/a	n/a	23085.542	0.530
Seasonal Wetland	Abutting	WF129e	n/a	n/a	84709.458	1.945
Seasonal Wetland	Abutting	WF130e	n/a	n/a	19330.850	0.444
Seasonal Wetland	Abutting	WF131e	n/a	n/a	43504.426	0.999
Seasonal Wetland	Abutting	WF132e	n/a	n/a	25985.904	0.597
Seasonal Wetland	Abutting	WF133e	n/a	n/a	57914.228	1.330
Seasonal Wetland	Abutting	WF134e	n/a	n/a	30492.892	0.700
Vernal Pool	Adjacent	WF003e	n/a	n/a	6608.195	0.152
Vernal Pool	Adjacent	WF004e	n/a	n/a	1212.329	0.028
Vernal Pool	Adjacent	WF005e	n/a	n/a	219.970	0.005
Vernal Pool	Abutting	WF008e	n/a	n/a	4122.915	0.095
Vernal Pool	Abutting	WF009e	n/a	n/a	1693.310	0.039
Vernal Pool	Abutting	WF010e	n/a	n/a	1027.041	0.024
Vernal Pool	Abutting	WF011e	n/a	n/a	2651.878	0.061
Vernal Pool	Abutting	WF012e	n/a	n/a	9619.427	0.221
Vernal Pool	Abutting	WF013e	n/a	n/a	1490.675	0.034
Vernal Pool	Abutting	WF014e	n/a	n/a	2576.502	0.059
Vernal Pool	Adjacent	WF015e	n/a	n/a	186.971	0.004
Vernal Pool	Adjacent	WF016e	n/a	n/a	6940.569	0.159
Vernal Pool	Abutting	WF020e	n/a	n/a	6721.209	0.154
Vernal Pool	Abutting	WF024e	n/a	n/a	4438.688	0.102
Vernal Pool	Abutting	WF031e	n/a	n/a	5125.524	0.118
Vernal Pool	Abutting	WF032e	n/a	n/a	2674.899	0.061
Vernal Pool	Adjacent	WF035e	n/a	n/a	3540.926	0.081
Vernal Pool	Adjacent	WF036e	n/a	n/a	1706.005	0.039
Vernal Pool	Adjacent	WF037e	n/a	n/a	4367.672	0.100
Vernal Pool	Adjacent	WF038e	n/a	n/a	6502.399	0.149
Vernal Pool	Adjacent	WF039e	n/a	n/a	2594.266	0.060
Vernal Pool	Adjacent	WF040e	n/a	n/a	2957.804	0.068
Vernal Pool	Adjacent	WF041e	n/a	n/a	4022.187	0.092
Vernal Pool	Adjacent	WF042e	n/a	n/a	278.132	0.006
Vernal Pool	Adjacent	WF043e	n/a	n/a	19811.008	0.455
Vernal Pool	Adjacent	WF044e	n/a	n/a	14887.712	0.342
Vernal Pool	Adjacent	WF045e	n/a	n/a	2388.876	0.055
Vernal Pool	Adjacent	WF047e	n/a	n/a	6516.356	0.150
Vernal Pool	Adjacent	WF057e	n/a	n/a	1676.959	0.038
Vernal Pool	Adjacent	WF058e	n/a	n/a	937.802	0.022
Vernal Pool	Adjacent	WF066e	n/a	n/a	198.935	0.005
Vernal Pool	Adjacent	WF069e	n/a	n/a	6772.749	0.155

			Avg.			
Туре	Designation	Label	Width (ft.)	Length (ft.)	Area (ft. ²)	Acres
Vernal Pool	Adjacent	WF070e	n/a	n/a	1204.902	0.028
Vernal Pool	Adjacent	WF071e	n/a	n/a	243.080	0.006
Vernal Pool	Adjacent	WF072e	n/a	n/a	2543.299	0.058
Vernal Pool	Adjacent	WF073e	n/a	n/a	257.781	0.006
Vernal Pool	Adjacent	WF074e	n/a	n/a	2076.847	0.048
Vernal Pool	Adjacent	WF075e	n/a	n/a	980.550	0.023
Vernal Pool	Adjacent	WF077e	n/a	n/a	1125.022	0.026
Vernal Pool	Adjacent	WF078e	n/a	n/a	2987.915	0.069
Vernal Pool	Adjacent	WF082e	n/a	n/a	2356.539	0.054
Vernal Pool	Adjacent	WF083e	n/a	n/a	27337.834	0.628
Vernal Pool	Adjacent	WF084e	n/a	n/a	1193.467	0.027
Vernal Pool	Adjacent	WF085e	n/a	n/a	281.725	0.006
Vernal Pool	Adjacent	WF086e	n/a	n/a	733.869	0.017
Vernal Pool	Adjacent	WF089e	n/a	n/a	2736.225	0.063
Vernal Pool	Abutting	WF090e	n/a	n/a	1122.451	0.026
Vernal Pool	Abutting	WF091e	n/a	n/a	893.856	0.021
Vernal Pool	Abutting	WF092e	n/a	n/a	1429.140	0.033
Vernal Pool	Abutting	WF116e	n/a	n/a	2331.935	0.054
Vernal Pool	Abutting	WF117e	n/a	n/a	412.351	0.009
Vernal Pool	Adjacent	WF119e	n/a	n/a	1159.353	0.027
Vernal Swale	Adjacent	WF006e	n/a	n/a	1813.559	0.042
Vernal Swale	Abutting	WF017e	n/a	n/a	5586.255	0.128
Vernal Swale	Abutting	WF027e	n/a	n/a	6979.149	0.160
Vernal Swale	Abutting	WF028e	n/a	n/a	16533.640	0.380
Vernal Swale	Adjacent	WF034e	n/a	n/a	4657.636	0.107
Vernal Swale	Adjacent	WF067e	n/a	n/a	11683.738	0.268
Vernal Swale	Adjacent	WF106e	n/a	n/a	1403.168	0.032
Vernal Swale	Adjacent	WF115e	n/a	n/a	9011.699	0.207
Vernal Swale	Adjacent	WF118e	n/a	n/a	490.313	0.011
Vernal Swale	Adjacent	WF120e	n/a	n/a	160.111	0.004
Willow Riparian	Abutting	WF09w	n/a	n/a	82877.480	1.903
		Fresh E	mergent We	etland Total =	155798.956	3.577
			Rip	oarian Total =	716664.529	16.452
			Seas	onal Swale =	91891.626	2.110
			Seasor	nal Wetland =	942009.073	21.626
			1	Vernal Pool =	189878.033	4.359
			Ve	ernal Swale =	58319.269	1.339
			Willo	ow Riparian =	82877.480	1.903
		1	Wetland Fea	atures Total =	2237438.967	51.365
Other Waters of the	U.S.					
Culvert	Culvert	C01	4	43.557	174.229	0.004
Culvert	Culvert	C02	3	27.970	83.909	0.002
Culvert	Culvert	C03	3	43.774	131.321	0.003
Culvert	Culvert	C04	3	19.298	57.895	0.001
Culvert	Culvert	C05	3	41.282	123.845	0.003
Culvert	Culvert	C06	3	31.760	95.281	0.002
Culvert	Culvert	C07	3	29.892	89.677	0.002
Culvert	Culvert	C08	4	58.745	234.982	0.005
Culvert	Culvert	C09	1.5	188.485	282.727	0.006

			Avg.			
Туре	Designation	Label	Width (ft.)	Length (ft.)	Area (ft. ²)	Acres
Culvert	Culvert	C10	1.5	128.497	192.745	0.004
Culvert	Culvert	C101	1.5	20.639	30.959	0.001
Culvert	Culvert	C102	1	28.721	28.721	0.001
Culvert	Culvert	C103	2	82.380	164.759	0.004
Culvert	Culvert	C104	1.5	34.785	52.178	0.001
Culvert	Culvert	C105	1.5	25.114	37.670	0.001
Culvert	Culvert	C106	2	25.109	50.218	0.001
Culvert	Culvert	C107	2	15.452	30.903	0.001
Culvert	Culvert	C108	1.5	21.264	31.896	0.001
Culvert	Culvert	C109	1	48.385	48.385	0.001
Culvert	Culvert	C11	1.5	35.999	53.999	0.001
Culvert	Culvert	C110	1.5	34.392	51.588	0.001
Culvert	Culvert	C111	1	23.952	23.952	0.001
Culvert	Culvert	C112	1	26.215	26.215	0.001
Culvert	Culvert	C113	0.5	56.263	28.131	0.001
Culvert	Culvert	C114	0.5	180.831	90.416	0.002
Culvert	Culvert	C117	1	49.359	49.359	0.001
Culvert	Culvert	C119	1	41.445	41.445	0.001
Culvert	Culvert	C12	1.5	41.982	62.972	0.001
Culvert	Culvert	C120	1	49.526	49.526	0.001
Culvert	Culvert	C121	1.5	20.848	31.272	0.001
Culvert	Culvert	C122	1.5	20.856	31.284	0.001
Culvert	Culvert	C13	1.5	46.944	70.416	0.002
Culvert	Culvert	C14	1	29.614	29.614	0.001
Culvert	Culvert	C15	2	84.347	168.693	0.004
Culvert	Culvert	C16	2	87.366	174.733	0.004
Culvert	Culvert	C17	8	53.015	424.121	0.010
Culvert	Culvert	C18	3	64.558	193.674	0.004
Culvert	Culvert	C19	3	76.830	230.490	0.005
Culvert	Culvert	C20	1.5	18.570	27.855	0.001
Culvert	Culvert	C21	1	13.540	13.540	0.000
Culvert	Culvert	C22	2	22.926	45.852	0.001
Culvert	Culvert	C23	2	37.417	74.835	0.002
Culvert	Culvert	C24	3	67.536	202.607	0.005
Culvert	Culvert	C25	2	21.628	43.256	0.001
Culvert	Culvert	C26	3.5	12.051	42.179	0.001
Culvert	Culvert	C27	4	38.990	155.960	0.004
Culvert	Culvert	C28	1	15.712	15.712	0.000
Culvert	Culvert	C29	3	30.804	92.411	0.002
Culvert	Culvert	C30	2.5	36.264	90.660	0.002
Culvert	Culvert	C31	1.5	15.089	22.634	0.001
Culvert	Culvert	C32	1.5	14.397	21.595	0.000
Culvert	Culvert	C33	2	61.961	123.922	0.003
Culvert	Culvert	C34	1	47.935	47.935	0.001
Culvert	Culvert	C35	1	20.778	20.778	0.000
Culvert	Culvert	C36	1.5	14.397	21.595	0.000
Culvert	Culvert	C37	2	20.534	41.068	0.001
Culvert	Culvert	C38	2	54.065	108.131	0.002
Culvert	Culvert	C39	1.5	37.022	55.532	0.001

			Avg.			
Туре	Designation	Label	Width (ft.)	Length (ft.)	Area (ft. ²)	Acres
Culvert	Culvert	C40	1.5	16.038	24.056	0.001
Culvert	Culvert	C41	2.5	40.752	101.880	0.002
Culvert	Culvert	C42	3.5	64.985	227.446	0.005
Culvert	Culvert	C43	3	37.146	111.438	0.003
Culvert	Culvert	C44	3	140.273	420.820	0.010
Culvert	Culvert	C45	1.5	11.686	17.528	0.000
Culvert	Culvert	C46	1.5	8.696	13.043	0.000
Culvert	Culvert	C47	10.5	38.070	399.734	0.009
Culvert	Culvert	C48	2	57.394	114.789	0.003
Culvert	Culvert	C49	2	56.431	112.862	0.003
Culvert	Culvert	C50	2	40.213	80.427	0.002
Culvert	Culvert	C51	2	15.624	31.248	0.001
Culvert	Culvert	C52	4	31.967	127.866	0.003
Culvert	Culvert	C53	4	20.698	82.792	0.002
Culvert	Culvert	C55	0.5	25.808	12.904	0.000
Culvert	Culvert	C56	1	70.569	70.569	0.002
Culvert	Culvert	C57	3	77.761	233.282	0.005
Culvert	Culvert	C58	3	69.586	208.757	0.005
Culvert	Culvert	C59	1	19.851	19.851	0.000
Culvert	Culvert	C60	1	33.663	33.663	0.001
Culvert	Culvert	C61	2	58.677	117.353	0.003
Culvert	Culvert	C62	2	52.519	105.038	0.002
Culvert	Culvert	C64	1.5	27.793	41.689	0.001
Culvert	Culvert	C65	1	30.395	30.395	0.001
Culvert	Culvert	C66	2	24.305	48.611	0.001
Culvert	Culvert	C67	2.5	108.359	270.897	0.006
Culvert	Culvert	C68	2	95.638	191.276	0.004
Culvert	Culvert	C69	3	23.531	70.593	0.002
Culvert	Culvert	C70	1	27.879	27.879	0.001
Culvert	Culvert	C71	3	203.999	611.997	0.014
Culvert	Culvert	C72	3	181.339	544.016	0.012
Culvert	Culvert	C73	2	21.294	42.589	0.001
Culvert	Culvert	C74	2	42.589	85.177	0.002
Culvert	Culvert	C75	2	26.769	53.539	0.001
Culvert	Culvert	C76	2	27.454	54.908	0.001
Culvert	Culvert	C77	2	31.532	63.065	0.001
Culvert	Culvert	C78	2	45.949	91.897	0.002
Culvert	Culvert	C79	2	24.002	48.004	0.001
Culvert	Culvert	C80	2	23.306	46.613	0.001
Culvert	Culvert	C81	2	45.289	90.578	0.002
Culvert	Culvert	C82	2	27.420	54.839	0.001
Culvert	Culvert	C83	2	30.878	61.755	0.001
Culvert	Culvert	C84	2	202.197	404.395	0.009
Culvert	Culvert	C85	2	101.200	202.401	0.005
Culvert	Culvert	C86	2	34.155	68.310	0.002
Culvert	Culvert	C87	2	34.250	68.500	0.002
Culvert	Culvert	C88	8	58.973	471.784	0.011
Culvert	Culvert	C89	2	51.439	102.879	0.002
Culvert	Culvert	C90	4	30.302	121.207	0.003

			Avg.			
Туре	Designation	Label	Width (ft.)	Length (ft.)	Area (ft. ²)	Acres
Culvert	Culvert	C91	2	47.399	94.798	0.002
Culvert	Culvert	C92	20	30.723	614.455	0.014
Culvert	Culvert	C93	2	25.457	50.915	0.001
Culvert	Culvert	C94	2	28.663	57.326	0.001
Culvert	Culvert	C95	2	64.027	128.053	0.003
Culvert	Culvert	C96	1	23.676	23.676	0.001
Culvert	Culvert	C97	2	15.763	31.525	0.001
Culvert	Culvert	C98	2	43.300	86.600	0.002
Culvert	Culvert	C99	2	34.929	69.857	0.002
Ephemeral	NRPW	OW125	6	268.927	1519.138	0.035
Roadside Ditch	NRPW	OW126	5	297.733	1488.667	0.034
Ephemeral	NRPW	OW135	5.5	220.862	1214.738	0.028
Roadside Ditch	NRPW	OW142	2	128.023	256.045	0.006
Roadside Ditch	NRPW	OW143	1.5	178.732	268.099	0.006
Roadside Ditch	NRPW	OW144	1.5	702.260	1053.389	0.024
Roadside Ditch	NRPW	OW146	2	1321.432	2642.863	0.061
Roadside Ditch	NRPW	OW147	2	854.957	1709.915	0.039
Roadside Ditch	NRPW	OW148	1.5	669.606	1004.409	0.023
Roadside Ditch	NRPW	OW149	1.5	689.692	1034.538	0.024
Roadside Ditch	NRPW	OW150	1.5	605.113	907.669	0.021
Roadside Ditch	NRPW	OW153	1.5	1426.310	2139.465	0.049
Roadside Ditch	NRPW	OW155	1	117.217	117.217	0.003
Irrigation Ditch	NRPW	OW23	1.5	2224.098	3336.148	0.077
Irrigation Ditch	NRPW	OW24	1.5	2394.665	3591.997	0.082
Irrigation Ditch	NRPW	OW25	1.5	2247.889	3371.833	0.077
Irrigation Ditch	NRPW	OW26	1.5	1687.659	2531.488	0.058
Irrigation Ditch	NRPW	OW27	1.5	983.621	1475.431	0.034
Roadside Ditch	NRPW	OW32	1.5	993.080	1489.621	0.034
Roadside Ditch	NRPW	OW33	1.5	3170.089	4755.133	0.109
Roadside Ditch	NRPW	OW34	3	513.413	1540.238	0.035
Roadside Ditch	NRPW	OW35	2	2051.174	4102.349	0.094
Roadside Ditch	NRPW	OW36	3	1653.594	4960.781	0.114
Roadside Ditch	NRPW	OW39	2	2760.966	5521.933	0.127
Roadside Ditch	NRPW	OW40	3	1814.670	5444.010	0.125
Roadside Ditch	NRPW	OW47	1	1302.160	1302.160	0.030
Roadside Ditch	NRPW	OW48	1	730.639	730.639	0.017
Roadside Ditch	NRPW	OW49	1	3197.990	3197.990	0.073
Roadside Ditch	NRPW	OW50	1	4336.660	4336.660	0.100
Roadside Ditch	NRPW	OW51	1.5	705.023	1057.535	0.024
Roadside Ditch	NRPW	OW52	1	1175.967	1175.967	0.027
Roadside Ditch	NRPW	OW53	1.5	1942.812	2914.218	0.067
Roadside Ditch	NRPW	OW56	1	555.730	555.730	0.013
Roadside Ditch	NRPW	OW57	1	147.270	147.270	0.003
Roadside Ditch	NRPW	OW58	1	219.260	219.260	0.005
Roadside Ditch	NRPW	OW59	1	120.527	120.527	0.003
Roadside Ditch	NRPW	OW60	1	301.943	301.943	0.007
Roadside Ditch	NRPW	OW61	1	1232.608	1232.608	0.028
Ephemeral	NRPW	OW62	2	760.767	1521.535	0.035
Roadside Ditch	NRPW	OW63	1	1069.186	1069.186	0.025

			Avg.			
Туре	Designation	Label	Width (ft.)	Length (ft.)	Area (ft. ²)	Acres
Roadside Ditch	NRPW	OW84	1	15.886	15.886	0.000
Roadside Ditch	NRPW	OW85	1	670.664	670.664	0.015
Roadside Ditch	NRPW	OW86	1	116.404	116.404	0.003
Roadside Ditch	NRPW	OW89	5	3336.108	16680.542	0.383
Pond	Pond	OW158	n/a	n/a	483.844	0.011
Pond	Pond	OW159	n/a	n/a	958.728	0.022
Pond	Pond	OW160	n/a	n/a	1343.858	0.031
Irrigation Canal	RPW	OW01	25	566.804	14418.651	0.331
Irrigation Canal	RPW	OW02	20	990.578	20219.892	0.464
Irrigation Canal	RPW	OW03	30	3426.541	101557.095	2.331
Irrigation Canal	RPW	OW04	35	2053.099	72309.101	1.660
Perrenial Stream	RPW	OW05	116	817.518	95208.943	2.186
Perrenial Stream	RPW	OW06	113	1003.075	113135.017	2.597
Perrenial Stream	RPW	OW07	106	1224.273	130191.972	2.989
Perrenial Stream	RPW	OW08	99	1215.441	120807.566	2.773
Irrigation Canal	RPW	OW100	10	558.826	5622.902	0.129
Irrigation Canal	RPW	OW101	11	669.110	7126.393	0.164
Irrigation Canal	RPW	OW102	11	1376.133	15156.305	0.348
Irrigation Canal	RPW	OW103	13	419.238	5550.071	0.127
Irrigation Canal	RPW	OW104	12	432.090	5081.682	0.117
Irrigation Canal	RPW	OW105	9	620.676	5277.962	0.121
Irrigation Canal	RPW	OW106	15	231.965	3503.525	0.080
Irrigation Canal	RPW	OW107	9	1838.691	16766.505	0.385
Irrigation Canal	RPW	OW108	10	323.919	3148.473	0.072
Irrigation Canal	RPW	OW109	11	948.980	10716.252	0.246
Irrigation Canal	RPW	OW11	33	4091.171	135409.736	3.109
Irrigation Canal	RPW	OW110	20	456.802	9104.835	0.209
Irrigation Canal	RPW	OW111	10	1368.159	14120.092	0.324
Irrigation Canal	RPW	OW112	16	1342.788	20835.050	0.478
Irrigation Canal	RPW	OW113	18	124.938	2211.954	0.051
Irrigation Canal	RPW	OW114	14	572.944	8142.255	0.187
Irrigation Canal	RPW	OW115	17	135.255	2356.584	0.054
Irrigation Canal	RPW	OW116	11	1727.566	19818.921	0.455
Irrigation Canal	RPW	OW117	18	419.680	7390.445	0.170
Irrigation Canal	RPW	OW118	14	1486.216	20787.093	0.477
Irrigation Canal	RPW	OW120	10	586.041	5675.215	0.130
Irrigation Canal	RPW	OW121	9	959.124	8724.159	0.200
Irrigation Canal	RPW	OW122	7	2524.123	17966.638	0.412
Irrigation Canal	RPW	OW123	13	490.265	6445.100	0.148
Irrigation Canal	RPW	OW124	5	159.537	821.914	0.019
Irrigation Canal	RPW	OW127	16	498.838	8087.429	0.186
Irrigation Canal	RPW	OW128	11	3330.897	36997.801	0.849
Irrigation Canal	RPW	OW129	23	507.676	11821.432	0.271
Irrigation Canal	RPW	OW13	12	895.427	10829.301	0.249
Irrigation Canal	RPW	OW130	23	526.735	12157.645	0.279
Irrigation Canal	RPW	OW131	35	503.389	17836.596	0.409
Irrigation Canal	RPW	OW132	32	506.284	15978.963	0.367
Irrigation Canal	RPW	OW133	14	90.131	1244.862	0.029
Irrigation Canal	RPW	OW134	10	413.495	3975.804	0.091
			Avg.			
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Туре	Designation	Label	Width (ft.)	Length (ft.)	Area (ft. ²)	Acres
Irrigation Canal	RPW	OW136	11	25.808	272.342	0.006
Irrigation Canal	RPW	OW138	10	624.183	6202.029	0.142
Irrigation Canal	RPW	OW14	22	911.639	20044.983	0.460
Irrigation Canal	RPW	OW15	24	430.407	10372.481	0.238
Irrigation Canal	RPW	OW154	11	449.698	4872.701	0.112
Intermittent	RPW	OW156	22	1038.123	22320.459	0.512
Irrigation Canal	RPW	OW18	34	4474.313	154241.597	3.541
Irrigation Canal	RPW	OW19	57	402.34	23068.673	0.530
Irrigation Canal	RPW	OW29	28	502.486	13964.104	0.321
Irrigation Canal	RPW	OW30	24	5871.020	143660.211	3.298
Irrigation Canal	RPW	OW31	24	414.813	9820.037	0.225
Irrigation Canal	RPW	OW37	20	494.010	9839.744	0.226
Irrigation Canal	RPW	OW38	15	1874.860	27972.660	0.642
Irrigation Canal	RPW	OW41	8	321.189	2540.169	0.058
Irrigation Canal	RPW	OW42	28	508.310	14038.661	0.322
Irrigation Canal	RPW	OW43	49	542.511	26642.802	0.612
Irrigation Canal	RPW	OW44	40	545.045	22030.602	0.506
Irrigation Canal	RPW	OW46	8	460.915	3815.986	0.088
Intermittent	RPW	OW54	8	1358.639	10541.255	0.242
Intermittent	RPW	OW55	9	1891.267	17537.733	0.403
Irrigation Canal	RPW	OW64	8	265.983	2127.863	0.049
Irrigation Canal	RPW	OW64	11	264.449	2916.862	0.067
Irrigation Canal	RPW	OW87	12	405.815	4994.721	0.115
Irrigation Canal	RPW	OW88	11	2030.535	22430.530	0.515
Irrigation Canal	RPW	OW90	7	1530.056	11256.621	0.258
Irrigation Canal	RPW	OW91	9	927.413	8594.903	0.197
Irrigation Canal	RPW	OW92	5	436.538	2182.689	0.050
Irrigation Canal	RPW	OW92	11	436.753	4992.365	0.115
Irrigation Canal	RPW	OW93	14	1899.072	26163.231	0.601
Irrigation Canal	RPW	OW94	13	87.095	1116.843	0.026
Irrigation Canal	RPW	OW95	18	473.305	8671.071	0.199
Irrigation Canal	RPW	OW96	10	1065.270	10188.931	0.234
Irrigation Canal	RPW	OW97	13	733.348	9814.647	0.225
Irrigation Canal	RPW	OW98	11	495.752	5563.931	0.128
Irrigation Canal	RPW	OW99	11	1581.524	16732.799	0.384
TNW	TNW	OW22	479	1116.699	535358.639	12.290
		Cul	vert Total =	5425.646	12836.605	0.295
		NF	RPW Total =	51913.385	94843.838	2.177
		F	RPW Total =	78208.919	1826085.369	41.921
		Т	NW Total =	1116.699	535358.639	12.290
		P	ond Total =	n/a	2786.430	0.064
		owo.	TUS Total =	136664.649	2471910.881	56.747



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und Feature	23			
nd Feature	25 Type	Length (ft.)	Area (ft.2)	Acres
nd Feature Fresh En	es Type ergent Wethan Total =	Length (ft.) n/a	Area (ft.2) 155798.956	Acres 3.577
Ind Feature Fresh Em	25 Type rergent Wetland Total = Riparian Total =	Length (ft.) n/a n/a	Area (ft.2) 155798.956 716664.529 91891.635	Acres 3.577 16.452 2.110
nd Feature Fresh En	25 Type nergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland -	Length (ft.) n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073	Acres 3.577 16.452 2.110 21.626
nd Feature Fresh En	25 Type ergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Swale = Seasonal Wetland =	Length (ft.) n/a n/a n/a n/a n/a n/a	Area (ft. 2) 155798.956 716664.529 91891.626 942009.073 189878.033	Acres 3.577 16.452 2.110 21.626 4.359
nd Feature Fresh En	25 Type ergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269	Acres 3.577 16.452 2.110 21.626 4.359 1.339
nd Feature Fresh En	25 Type ergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale = Willow Riparian =	Length (ft.) n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903
Ind Feature Fresh Em	25 Type ergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale = Willow Riparian = fetland Features Total =	Length (ft.) n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365
nd Featura Fresh En	es Type ergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale = Willow Riparian = fetland Features Total = the U.S.	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365
nd Feature Fresh En	es Type ergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Swale = Vermal Pool = Vermal Pool = Vermal Swale = Willow Riparian = futhe U.S. Type	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft.2)	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 Acres
nd Feature Fresh En Waters of	ess Type ergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Swale = Vernal Pool = Vernal Swale = Willow Riparian = Willow Riparian = fthe U.S. Type Culvert Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft.2) 12836.605 049.12.925	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 Acres 0.295 0.295
nd Featura Fresh En Waters of	25 Type Type Type Type Type Type Type Type	Length (ft.) n/a s425.646 51913.385 5192.38	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 2237438.967 Area (ft.2) 12836.605 94843.838 18264085 240	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 Acres 0.295 2.177 41 921
nd Featura Fresh En Waters of	25 Type rergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Swale = Seasonal Swale = Willow Riparian = fetland Features Total = the U.S. Type Culvert Total = RPW Total = RPW Total = TNW Total = TNW Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft.2) 12836.605 94843.838 1826085.369 535388.639	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 Acres 0.295 2.177 41.921 12.290
nd Featura Fresh Em Waters of	25 Type mergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Swale = Seasonal Wetland = Vernal Swale = Willow Riparian = Ketland Features Total = Willow Riparian = Ketland Features Total = Type Culvert Total = RPW Total = RPW Total = RPW Total = TNW Total = Pond Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft.2) 12836.605 94843.838 1826085.369 535358.639 2786.430	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 Acres 0.295 2.177 41.921 12.290 0.064
nd Feature Fresh En Waters of	25 Type rergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale = Willow Riparian = fetland Features Total = Type Culvert Total = RPW Total = RPW Total = RPW Total = TNW Total = Pond Total = OWOTUS Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a in/a n/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a in/a	Area (ft. 2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft. 2) 12836.605 94843.838 1826085.369 535358.639 2786.430 2471910.881	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 Acres 0.295 2.177 41.921 12.290 0.064 56.747



Total WF and OWOTUS = 136664.649 4709349.848 108.112



	Туре	Length (ft.)	Area (ft.2)	Acres
Fresh E	mergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
3	Wetland Features Total =	n/a	2237438.967	51.365
er Waters o	f the U.S.	6		
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
	Total WE and OWOTUS =	136664 649	4709349 848	108 112



	Туре	Length (ft.)	Area (ft.2)	Acres
Fresh Em	ergent Wetland Total =	n/a	155798.956	3.57
	Riparian Total =	n/a	716664.529	16.45
	Seasonal Swale =	n/a	91891.626	2.11
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.35
	Vernal Swale =	n/a	58319.269	1.33
	Willow Riparian =	n/a	82877.480	1.90
W	etland Features Total =	n/a	2237438.967	51.36
Waters of	the U.S.	6	1	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.29
	NRPW Total =	51913.385	94843.838	2.17
	RPW Total =	78208.919	1826085.369	41.92
	TNW Total =	1116.699	535358.639	12.29
	Pond Total =	n/a	2786.430	0.06
	OWOTUS Total =	136664.649	2471910.881	56.74
	Total WE and OWOTUS =	136664 649	4709349 848	108 11



All features to remain preliminar verification from the USACE
Survey area derived from 500 ft.
Surveyor East JO,SI,EA Surve
Aerial Feb. 2005 (NAIF) Map I

t. buffer of roadway. y Dates: 5/3/07, 5/8/07, 5/14/07, 6/21/07 ey Dates 7/21, 24 - 28, 8/10 & 25, 2006 Date August 6, 2007 Revised August 21, 2007

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All features to remain preliminary until written verification from the USACE Survey area derived from 500 ft. buffer of roadway Surveyor West EA, BT Survey Dates 5/3/07, 5/8/07, 5/14/07, 6/21/07 Surveyor East JG, BLEA Survey Dates 7/21, 24 - 28, 6/10 & 25, 2006 Aerial Feb. 2005 (NAIP) Mip Date August 6, 2007 Revised August 21, 2007

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	Туре	Length (ft.)	Area (ft.2)	Acres
Fresh Ei	mergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
1	Wetland Features Total =	n/a	2237438.967	51.365
er Waters o	f the U.S.	8	4	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
5	Total WF and OWOTUS =	136664.649	4709349.848	108.112



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Draft Delineation of the Waters of the U.S. (19 of 55)				
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land Feature	25			
	Туре	Length (ft.)	Area (ft. 2)	Acres
Fresh Em	ergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	= n/ā	716664.529	16.452
	Seasonal Swale =	= n/a	91891.626	2.110
	Seasonal Wetland =	= n/a	942009.073	21.626
	Vernal Pool :	= n/a	189878.033	4.359
	vernal Swale : Willow Pipedar	= n/a	58319.269 97977 400	1.339
14	etland Features Total -	- 11/a	2737438 967	51.365
er Waters of	the II S		2237430.707	51.505
	Тупе	Length (ft.)	Area (ft 2)	Acres
	Culvert Total :	= 5425.646	12836.605	0.295
	NRPW Total :	= 51913.385	94843.838	2.177
	RPW Total :	= 78208.919	1826085.369	41.921



535358.639

2786.430

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n/a

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and Features Type Fresh Emergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale = Willow Riparian = Wetland Features Total = r Waters of the U.S. Type Culvert Total = NRPW Total = RPW Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a n/a tength (ft.) 5425.646 51913.385 78208.910	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 2237438.967 Area (ft.2) 12836.605 94843.838 1826085 360	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365
and Features Type Fresh Emergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Swale = Vermal Pool = Vermal Swale = Willow Riparian = Wetland Features Total = r Waters of the U.S. Type Culvert Total = NRPW Total = RPW Total = TNW Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	Area (ft. 2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 4237438.967 Area (ft. 2) 12836.605 94843.838 1826085.369 535358.639	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 0.295 2.177 41.921 12.290
and Features Type Fresh Emergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale = Willow Riparian = Wetland Features Total = r Waters of the U.S. Type Culvert Total = NRPW Total = RPW Total = TNW Total = Pond Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft.2) 12836.605 94843.838 1826085.369 535358.639 2786.430	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 0.295 2.177 41.921 12.290 0.064
and Features Type Fresh Emergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale = Willow Riparian = Wetland Features Total = r Waters of the U.S. Type Culvert Total = NRPW Total = RPW Total = TNW Total = Pond Total = OWOTUS Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a n/a N/a N/a N/a S425.646 51913.385 78208.919 1116.699 n/a 136664.649	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft.2) 12836.605 94843.838 1826085.369 535358.639 2786.430 2471910.881	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 Acres 0.295 2.177 41.921 12.290 0.064 56.747
and Features Type Fresh Emergent Wetland Total = Riparian Total = Seasonal Swale = Seasonal Wetland = Vernal Pool = Vernal Swale = Willow Riparian = Wetland Features Total = r Waters of the U.S. Type Culvert Total = RPW Total = RPW Total = TNW Total = Pond Total = OWOTUS Total =	Length (ft.) n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft.2) 12836.605 94843.838 1826085.369 235358.639 2786.430 2471910.881 4709349 848	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 0.295 2.177 41.921 12.290 0.064 56.747 108 112







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	Туре	Length (ft.)	Area (ft.2)	Acres
Fresh E	mergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
4	Wetland Features Total =	n/a	2237438.967	51.365
er Waters o	of the U.S.			
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
	Total WF and OWOTUS =	136664.649	4709349.848	108.112







Draft Delineation of the Waters of the U.S. (28 of 55)

	Туре	Length (ft.)	Area (ft.2)	Acres
Fres	h Emergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
	Wetland Features Total =	n/a	2237438.967	51.365
er Water	s of the U.S.	- <u>1</u> -	10	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
	Total WE and OWOTUS -	136664 640	4700340 848	109 112



verification from the USACE
Survey area derived from 500 ft. buffer of roadway
Surveyor West EA, BT Survey Dates: 5/3/07, 5/8/07, 5/14/07, 6/21/07
Surveyor East JO, SI, EA. Survey Dates 7/21, 24 - 28, 8/10 & 25, 2006
Aerial Feb. 2005 (NAIF) Map Date August 6, 2007 Revised August 21, 2007

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Draft Delineation of the Waters of the U.S. (29 of 55)

tland Featu	ıres			
	Туре	Length (ft.)	Area (ft.2)	Acres
Fresh	Emergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
	Wetland Features Total =	n/a	2237438.967	51.365
er Waters	of the U.S.	- <u>1</u> -	1.	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
	Total WF and OWOTUS =	136664.649	4709349.848	108.112



GALLAWAY CONSULTING, INC



Draft Delineation of the Waters of the U.S. (30 of 55)

tiand Feati	ures	SI 003/1 0/02/04	57.65 (#48.68 \$46.6)	
	Туре	Length (ft.)	Area (ft.2)	Acres
Fresh	Emergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
	Wetland Features Total =	n/a	2237438.967	51.365
er Waters	of the U.S.		92 	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
	Total WF and OWOTUS =	136664.649	4709349.848	108.112



Draft Delineation of the Waters of the U.S. (31 of 55)

	Туре	Length (ft.)	Area (ft.2)	Acres
Fres	h Emergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
	Wetland Features Total =	n/a	2237438.967	51.365
er Water	s of the U.S.		10	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
	Total WF and OWOTUS =	136664-649	4709349.848	108,112



verification from the USACE	
Survey area derived from 500 ft. buffer of roadway	
Surveyor West EA, BT Survey Dates' 5/3/07, 5/8/07, 5/14/07, 6/	21/07
Surveyor East JO, ELEA Survey Dates 7/21, 24 - 28, 8/10 & 25, Aerial Feb 2005 (MAIF) Map Date August 6, 2007 Revised Au	2006 igust 21, 2007

ſ

Feet 100 200 0

Attachment A

Draft Delineation of the Waters of the U.S. (32 of 55)

	Туре	Length (ft.)	Area (ft.2)	Acres
Fres	h Emergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
	Wetland Features Total =	n/a	2237438.967	51.365
er Water	s of the U.S.		h:	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
	Total ME and OMOTUS -	136664 640	4700240.949	108 112





All features to remain preliminary until written
verification from the USACE
Survey area derived from 500 ft. buffer of roadway
Surveyor West EA, BT Survey Dates: 5/3/07, 5/8/07, 5/14/07, 6/21/07
Surveyor East JO,SI,EA. Survey Dates 7/21, 24 - 28, 8/10 & 25, 2006 Aerial Feb 2005 (MAIF) Mup Date August 6, 2007 Revised August 21, 2007

0 100 200

Image: Second State Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 155798.956 3.577 Seasonal Swale = n/a 1915798.956 3.577 Seasonal Swale = n/a 191691.626 2.110 Seasonal Wetland = n/a 91891.626 2.110 Seasonal Wetland = n/a 191878.033 4.359 Vernal Swale = n/a 19319.269 1.339 Willow Riparian = n/a 2237438.967 51.365 Waters of the U.S. Culvert Total = 51913.385 94843.838 2.177 RPW Total = 51913.385 94843.838 2.177 RPW Total = 7200.919 1262085.369 1.2201 OwoTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 Satting Satting	Image: constraint of the second sec	and Features in factorial	and Features Tresh Emergent Wetland Total = n/a 155793.956 3.577 Riparian Total = n/a 195793.956 3.577 Seasonal Wetland = n/a 195793.033 4.359 Vernal Pool = n/a 19597.033 4.359 Vernal Pool = n/a 2237438.967 1.339 Willow Riparian = n/a 2237438.967 1.339 Vertal Foatures n/a 2237438.967 1.339 Willow Riparian = n/a 2237438.967 1.339 Vertal Foatures Total = n/a 2237438.967 1.359 r Waters of the U.S. Vertal = 5913.385 9443.338 2.177 RPW Total = 1116.699 53538.639 1.220 Pond Total = n/a 2286.640 0.064 Wotar of total = n/a 2286.642 0.064 Wetland OWOTUS Total = 136664.649 4709349.849 08.112 OWOTUS Total = 136664.649 4709349.848 08.112 Owo Data Point - DP# Seconal Svale Seconal Svale Seconal Svale	and Features Tesh Emergent Wetland Total = Nick Wetland Total = <th colspan="8">Draft Delineation of the Waters of the U.S. (33 of 55)</th>	Draft Delineation of the Waters of the U.S. (33 of 55)							
Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 716664.529 16.452 Seasonal Swale = n/a 91891.626 2.110 Seasonal Wetland = n/a 91891.626 2.110 Seasonal Wetland = n/a 91891.626 1.10 Vernal Pool = n/a 189878.033 4.359 Vernal Swale = n/a 58319.269 1.339 Willow Riparian = n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.338 2.177 RPW Total = 78208.919 1826085.369 11.921 TNW Total = 1116.699 533358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = <th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 155798.956 3.577 Seasonal Swale = n/a 91891.626 2.110 Seasonal Wetland = n/a 942009.073 21.626 Vernal Pool = n/a 198978.033 4.359 Wetland Features Total = n/a 2237438.967 51.339 Willow Riparian = n/a 2237438.967 51.365 Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.639 41.921 TNW Total = 51305 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649</th> <th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 716664.529 16.452 Seasonal Swale = n/a 9191.626 2.110 Seasonal Wetland = n/a 92009.073 21.626 Vernal Pool = n/a 198978.033 4.339 Wetland Features Total = n/a 82192.69 1.339 Wetland Features Total = n/a 82237.480 1.903 Wetlard Features Total = n/a 5225.646 12836.050 0.295 NRPW Total = 51913.385 94843.832 2.177 RPW Total = 5190.385 941.921 1.200 Pond Total = n/a 223748.6430 0.064 OWOTUS Total = 136664.649 2471910.81 56.747 Total WF and OWOTUS = 136664.649 2471910.81 56.747 O Data Point - DP# Sactamento Sactamento Sactamento O Data Point - DP# Sactamento Sacsonal Swale <t< th=""><th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Seasonal Svale = n/a 155798.956 3.577 Seasonal Wetland = n/a 19191.626 2.111 Seasonal Wetland = n/a 942009.073 21.626 Vernal Pool = n/a 19991.626 1.903 Wetmal Features Total = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 r Waters of the U.S. Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.328 9443.333 2.177 RWW Total = 116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 O Data Point - DP#</th><th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Seasonal Swale = n/a 191891.626 2.111 Seasonal Wetland = n/a 198978.033 4.359 Wernal Pool = n/a 198976.026 1.339 Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.325 9443.838 2.177 RPW Total = 116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 O Data Point - DP# Satramento Fresh Emerg. Wetland Satramento O Data Point - DP# Seasonal Swale Seasonal Swale Seasonal Wetland Other Waters of the U.S OW# Seasonal Wetland Seasonal Wetland</th></t<><th></th><th></th><th></th><th></th><th></th></th>	and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 155798.956 3.577 Seasonal Swale = n/a 91891.626 2.110 Seasonal Wetland = n/a 942009.073 21.626 Vernal Pool = n/a 198978.033 4.359 Wetland Features Total = n/a 2237438.967 51.339 Willow Riparian = n/a 2237438.967 51.365 Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.639 41.921 TNW Total = 51305 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649	and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 716664.529 16.452 Seasonal Swale = n/a 9191.626 2.110 Seasonal Wetland = n/a 92009.073 21.626 Vernal Pool = n/a 198978.033 4.339 Wetland Features Total = n/a 82192.69 1.339 Wetland Features Total = n/a 82237.480 1.903 Wetlard Features Total = n/a 5225.646 12836.050 0.295 NRPW Total = 51913.385 94843.832 2.177 RPW Total = 5190.385 941.921 1.200 Pond Total = n/a 223748.6430 0.064 OWOTUS Total = 136664.649 2471910.81 56.747 Total WF and OWOTUS = 136664.649 2471910.81 56.747 O Data Point - DP# Sactamento Sactamento Sactamento O Data Point - DP# Sactamento Sacsonal Swale <t< th=""><th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Seasonal Svale = n/a 155798.956 3.577 Seasonal Wetland = n/a 19191.626 2.111 Seasonal Wetland = n/a 942009.073 21.626 Vernal Pool = n/a 19991.626 1.903 Wetmal Features Total = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 r Waters of the U.S. Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.328 9443.333 2.177 RWW Total = 116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 O Data Point - DP#</th><th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Seasonal Swale = n/a 191891.626 2.111 Seasonal Wetland = n/a 198978.033 4.359 Wernal Pool = n/a 198976.026 1.339 Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.325 9443.838 2.177 RPW Total = 116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 O Data Point - DP# Satramento Fresh Emerg. Wetland Satramento O Data Point - DP# Seasonal Swale Seasonal Swale Seasonal Wetland Other Waters of the U.S OW# Seasonal Wetland Seasonal Wetland</th></t<> <th></th> <th></th> <th></th> <th></th> <th></th>	and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Seasonal Svale = n/a 155798.956 3.577 Seasonal Wetland = n/a 19191.626 2.111 Seasonal Wetland = n/a 942009.073 21.626 Vernal Pool = n/a 19991.626 1.903 Wetmal Features Total = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 r Waters of the U.S. Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.328 9443.333 2.177 RWW Total = 116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 O Data Point - DP#	and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Seasonal Swale = n/a 191891.626 2.111 Seasonal Wetland = n/a 198978.033 4.359 Wernal Pool = n/a 198976.026 1.339 Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.325 9443.838 2.177 RPW Total = 116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 O Data Point - DP# Satramento Fresh Emerg. Wetland Satramento O Data Point - DP# Seasonal Swale Seasonal Swale Seasonal Wetland Other Waters of the U.S OW# Seasonal Wetland Seasonal Wetland								
Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 716664.529 16.452 Seasonal Swale = n/a 91891.626 2.110 Seasonal Wetland = n/a 91891.626 2.110 Seasonal Wetland = n/a 91891.626 2.110 Seasonal Wetland = n/a 91891.626 2.110 Vernal Pool = n/a 199878.033 4.339 Vernal Pool = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 r Waters of the U.S. 4.77 RPW Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 4709349.848 108.112	Type Length (ft.) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 716664.529 16.452 Seasonal Swale = n/a 91891.626 2.110 Seasonal Wetland = n/a 942009.073 21.626 Vernal Pool = n/a 198978.033 4.359 Vernal Swale = n/a 58319.269 1.339 Willow Riparian = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 r Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 51913.385 94843.838 2.177 RPW Total = 1916.269 12209 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	Type Length (ft.) Acres Fresh Emergent Wetland Total = n/a 155798.956 A.S.F.T. Riparian Total = n/a 91991.626 2.110 Seasonal Swale = n/a 91991.626 2.110 Seasonal Swale = n/a 91991.626 2.110 Seasonal Wetland = n/a 91991.626 2.110 Wernal Swale = n/a 19182087.033 4.339 Willow Riparian n/a 2237438.967 51.365 r Waters of the U.S. Type Length (ft.) Area (ft. 2) Acres Valuer Total = 5125.646 12366.05 0.295 NPW Total = 718208.919 1826085.369 41.921 TNW Total = 136664.649 2471910.81 <th col<="" th=""><th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 716664.529 16.452 Seasonal Swale = n/a 91891.626 2.110 Seasonal Wetland = n/a 199878.033 4.359 Vernal Swale = n/a 189878.033 4.359 Vernal Swale = n/a 189878.033 4.359 Vernal Swale = n/a 28277.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 r Waters of the U.S. Image: Transition of the U.S. Acres Curver Total = 51913.385 PW Total = 51913.385 94843.838 2.177 RPW Total = 78206.919 13356.639 11.921 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Fresh Emerg. Wetland Fresh Emerg. Wetland Seasonal Swale</th><th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 716664.529 16.452 Seasonal Swale = n/a 91891.626 2.110 Seasonal Swale = n/a 91891.626 2.110 Seasonal Swale = n/a 91891.626 2.110 Seasonal Wetland Total = n/a 91897.626 1.339 Wernal Swale = n/a 53319.269 1.339 Wetland Features Total = n/a 2237438.967 51.365 r Waters of the U.S. Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.335 9443.333 2.177 RPW Total = 116.699 533536.639 12.290 Pond Total = n/a 128064.649 2471910.881 56.747 O Data Point - DP# Sacramento Sacramento Sacramento Soil Samples Versitier Placer Placer Sacramento O Data Point - DP# Sacramento Sacramento Sacramento Sacramento O Data Point - DP# Seasonal Swa</th><th>Sec. 1</th><th></th><th></th><th></th><th></th></th>	<th>and Features Type Length (ft.) Area (ft.2) Acres Fresh Emergent Wetland Total = n/a 155798.956 3.577 Riparian Total = n/a 716664.529 16.452 Seasonal Swale = n/a 91891.626 2.110 Seasonal Wetland = n/a 199878.033 4.359 Vernal Swale = n/a 189878.033 4.359 Vernal Swale = n/a 189878.033 4.359 Vernal Swale = n/a 28277.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 r Waters of the U.S. Image: Transition of the U.S. Acres Curver Total = 51913.385 PW Total = 51913.385 94843.838 2.177 RPW Total = 78206.919 13356.639 11.921 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Fresh Emerg. Wetland Fresh Emerg. Wetland Seasonal Swale</th> <th>and Features Type Length (ft.) 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Willow Riparian = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	Willow Riparian n/a 82877.480 1.903 Wetland Features Total n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total 5425.646 12836.605 0.295 NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535358.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Vestare Fast Sacramento Sacramento Sacramento Soil Samples Wetland Features - WF# Fresh Emerg. Wetland @ Data Point - DP# Fresh Emerg. Wetland	Willow Riparian = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft. 2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 10.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Wetland Features - WF# O Data Point - DP# Scaramento Fresh Emerg. Wetland Upland - U# Seasonal Swale Seasonal Swale Seasonal Wetland O Wetland - W# Seasonal Wetland Seasonal Wetland Seasonal Wetland Other Waters of the U.S OW# Seasonal Wetland Seasonal Wetland Seasonal Wetland Pond Yernal Pool Yernal Swale Yern	Willow Riparian = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12336.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 1700.919 1820085.369 41.921 TNW Total = 1116.699 535358.639 12.909 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 4709349.848 108.112 Vetland Features - WF# Placer Placer Placer Wets East Placer Placer Placer Wetland - U# Seconal Swale Seconal Swale Seconal Swale Other Waters of the U.S OW# Seasonal Wetland Seasonal Wetland Pond Pond Vernal Swale Willow Riparian NRPW Culvert - C# Vernal Swale Willow Riparian	Willow Riparian = n/a 82877.480 1.903 Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94443.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TWW Total = 1116.699 53538.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Vestign East Wetland Features - WF# © Data Point - DP# Sarramento Seasonal Swale Other Waters of the U.S OW# Seasonal Swale Seasonal Wetland © Pond Seasonal Wetland Seasonal Wetland © Pond Seasonal Wetland Vernal Swale Seasonal Wetland Seasonal Wetland		Vernal Swale =	n/a	58319.269	1.339			
Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soitl Samples Wetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland	Wetland Features Total = n/a 2237438.967 51.365 Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.290 0.2177 RPW Total = 51913.385 94843.833 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Vest East Vest East West East West East O Data Point - DP# Seasonal Swale O Data Point - DP# Fresh Emerg. Wetland O Data Point - DP# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Seasonal Wetland O Pond Seasonal Wetland Seasonal Wetland	Wetland Features Total = n/a 2237438.967 51.365 Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.833 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 53538.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Vest East Placer Wets East Placer Placer Wets East Placer Placer Wetland - U# Scarramento Scasonal Swale Scasonal Swale O Data Point - DP# Fresh Emerg. Wetland Scasonal Wetland Scasonal Wetland Wetland - W# Scasonal Wetland Scasonal Wetland Scasonal Wetland Pond NRPW Vernal Svale Willow Riparian	Wetland Features Total n/a 2237438.967 51.365 Waters of the U.S. Length (ft.) Area (ft. 2) Acres Culvert Total 5425.646 12836.605 0.295 NRPW Total 51913.385 94843.833 2.177 RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 53358.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Vest East Vest East Vest East Vest East O Data Point - DP# Scrainetto O Data Point - DP# Fresh Emerg. Wetland Wetland - U# Seasonal Swale Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Vernal Pool Pond Vernal Swale Willow Riparian NRPW Willow Riparian Willow Riparian		Willow Riparian =	n/a	82877.480	1.903			
Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total 5425.646 12836.605 0.295 NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535358.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Sutter Placer Placer Sacramento Sacramento Sacramento Soil Samples Wetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland	Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total 5425.646 1283.605 0.275 NRPW Total 51913.385 94843.838 2.275 NRPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535358.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Sutter Placer West East Placer Placer West East Placer Scramento O Data Point - DP# Seconal Swale Upland - U# Seasonal Swale Riparian Wetland - W# Seasonal Swale Seasonal Wetland Pond TNW Seasonal Wetland Seasonal Wetland Pond Seasonal Wetland Seasonal Wetland Seasonal Wetland Pond Seasonal Wetland Willow Riparian Vernal Swale	Waters of the U.S. Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.171 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Vest East West East O Data Point - DP# © Data Point - DP# Fresh Emerg. Wetland © Wetland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland © Pond Seasonal Wetland © Pond Seasonal Wetland © Pond Se	Waters of the U.S. Type Length (ft.) Acres Culvert Total = 5425.646 1236.605 0.2295 NPW Total = 5425.646 1236.605 0.2295 NPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Wetland Features - WF# © Data Point - DP# Secramento Secarant Swale © Data Point - DP# Fresh Emerg. Wetland Secarant Swale © Data Point - DP# Secarant Swale Secarant Swale © Data Point - DP# Secarant Swale Secarant Swale <th>۷</th> <td>Vetland Features Total =</td> <td>n/a</td> <td>2237438.967</td> <td>51.365</td>	۷	Vetland Features Total =	n/a	2237438.967	51.365			
Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Sutter Placer Placer West East Sacramento Sacramento Sacramento Sacramento Sacramento Sacramento	Type Length (ft.) Area (ft. 2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 5358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Wetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland Upland - U# Seasonal Swale Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Seasonal Wetland Pond TNW Vernal Pool Willow Riparian NRPW Culvert - C# Willow Riparian Willow Riparian	Type Length (ft.) Area (ft. 2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 11.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Vest East Vest East West East West East West East Vest Iand O Data Point - DP# Fresh Emerg. Wetland O Upland - U# Fresh Emerg. Wetland O Wetland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Yernal Swale Prod Yernal Swale PW Willow Riparian NRPW Willow Riparian	Type Length (ft.) Area (ft.2) Acres Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 11.921 INW Total = 1116.699 53538.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Sutter Placer Viest East Placer Viest East Scramento O Data Point - DP# Fresh Emerg. Wetland Upland - U# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Vernal Pool Willow Riparian Willow Riparian NRPW Willow Riparian NRPW Willow Riparian	Waters of	f the U.S.						
Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	Culvert Total = 5425.646 12836.605 0.295 NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Suttler Placer Placer West East Sacraimento Comparison Comparison Soil Samples Wetland Features - WF# 6 Data Point - DP# Fresh Emerg. Wetland	Culvert Total 5425.646 12836.605 0.295 NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535358.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Soil Samples Soil Samples Vetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland Upland - U# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Vernal Pool Vernal Pool Vernal Swale RPW Willow Riparian NRPW Willow Riparian	Culvert Total 5425.646 12836.605 0.295 NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535358.639 12.921 OwoTUS Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Vest East West East O Data Point - DP# Fresh Emerg. Wetland Dyland - U# Fresh Emerg. Wetland O Wetland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Yernal Pool Pond Yernal Swale RPW Willow Riparian NRPW Willow Riparian <td>Culvert Total 5425.646 12836.605 0.295 NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TINW Total 1116.699 53538.639 12.291 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Soil Samples Sutter Placer West East Placer West East Placer Vest East Placer Vest In DP# Fresh Emerg. Wetland Data Point - DP# Fresh Emerg. Wetland Wetland - U# Seasonal Swale Vernal Pool Vernal Pool Pond Vernal Swale Pond Wetland Reau NRPW Willow Riparian NRPW Willow Riparian</td> <th></th> <td>Туре</td> <td>Length (ft.)</td> <td>Area (ft.2)</td> <td>Acres</td>	Culvert Total 5425.646 12836.605 0.295 NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TINW Total 1116.699 53538.639 12.291 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Soil Samples Sutter Placer West East Placer West East Placer Vest East Placer Vest In DP# Fresh Emerg. Wetland Data Point - DP# Fresh Emerg. Wetland Wetland - U# Seasonal Swale Vernal Pool Vernal Pool Pond Vernal Swale Pond Wetland Reau NRPW Willow Riparian NRPW Willow Riparian		Туре	Length (ft.)	Area (ft.2)	Acres			
NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535358.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112	NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535358.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Suttler Placer West East Placer Placer West East Sacramento Sacramento Sacramento Wetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland	NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Sutter Placer Placer West East Placer Placer Upland - U# Scaramento Seasonal Swale O bata Point - DP# Fresh Emerg. Wetland Upland - U# Seasonal Swale O Wetland - W# Seasonal Wetland O her Waters of the U.S OW# Seasonal Wetland Pond Vernal Pool Vernal Swale Willow Riparian NRPW Willow Riparian	NRPW Total = 51913.385 94843.838 2.177 RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Soil Samples Sacramento Q Data Point - DP# Secramento Upland - U# Fresh Emerg. Wetland Q Wetland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Yernal Pool Yernal Pool Pond Willow Riparian Yernal Swale NRPW Willow Riparian Yernal Swale	NRPW Total 51913.385 94843.838 2.177 RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535386.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112 Vertal East Vertal Sacramento Soil Samples Wetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland Upland - U# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Yernal Swale RPW Willow Riparian NRPW Vernal Swale Willow Riparian Seasonal Wetland		Culvert Total =	5425.646	12836.605	0.295			
RPW Total 78208.919 1826085.369 41.921 TNW Total 1116.699 535358.639 12.290 Pond Total n/a 2786.430 0.064 OWOTUS Total 136664.649 2471910.881 56.747 Total WF and OWOTUS 136664.649 4709349.848 108.112	RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Vest East Placer Placer West East Sacramento Sacramento Soil Samples Wetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland	RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Vest East Placer Placer Vest East Placer Placer Vest East Sacramento Seasonal O Data Point - DP# Fresh Emerg. Wetland Upland - U# Seasonal Swale Seasonal Wetland O Pond Seasonal Wetland Pond Vernal Pool Vernal Swale Pond Vernal Swale Willow Riparian NRPW Willow Riparian Willow Riparian	RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Ø Data Point - DP# Sacramento Seasonal Swale Ø Data Point - DP# Fresh Emerg. Wetland Seasonal Swale Ø Wetland - W# Seasonal Swale Seasonal Wetland Ø Pond Seasonal Wetland Seasonal Wetland Ø Vernal Pool Vernal Swale Willow Riparian NRPW	RPW Total = 78208.919 1826085.369 41.921 TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Verse East Placer Placer West East Placer Placer O Data Point - DP# Scramento Seasonal Swale O Upland - U# Fresh Emerg. Wetland O Vertland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Seasonal Wetland Pond Vernal Pool Pond Vernal Swale Willow Riparian Willow Riparian NRPW Willow Riparian		NRPW Total =	51913.385	94843.838	2.177			
TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Output Sutter Placer Placer West East Sacramento Sacramento Soil Samples Wetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland	TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 OWOTUS Total = Soil Samples Placer Placer O Data Point - DP# Seramento Seasonal Wetland O Data Point - DP# Fresh Emerg. Wetland O Wetland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Vernal Pool Vernal Swale PNW Willow Riparian Willow Riparian	TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Version of the US and the examination of the examinatio the examination of the examination of the examinati	TNW Total = 1116.699 535358.639 12.290 Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Out of the and OWOTUS = Soil Samples Placer Placer O Data Point - DP# Scramento Secanal Swale O Data Point - DP# Fresh Emerg. Wetland O Upland - U# Seasonal Swale O Wetland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Seasonal Wetland Pond Vernal Pool PNW Willow Riparian NRPW Willow Riparian		RPW Total =	78208.919	1826085.369	41.921			
Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Sutter Placer West East Sacramento Soil Samples Wetland Features - WF# O Data Point - DP# Fresh Emerg. Wetland	Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Foral WF and OWOTUS = 136664.649 4709349.848 108.112 Soil Samples Placer Placer Vest West East Placer Sacramento Soil Samples Vetland Features - WF# O Data Point - DP# Upland - U# Seasonal Swale O Vetland - W# Other Waters of the U.S OW# Seasonal Swale Pond Vernal Pool TNW Seasonal Wetland PN Vernal Swale NRPW Willow Riparian NRPW Culvert - C#	Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Vest East Placer Placer Vest East Scramento Scramento Soil Samples O Data Point - DP# Fresh Emerg. Wetland O Data Point - DP# Fresh Emerg. Wetland O Wetland - U# Seasonal Swale O Wetland - W# Seasonal Wetland O Pond Seasonal Swale O TNW Vernal Pool PN Willow Riparian NRPW Culvert - C#	Pond Total = n/a 2786.430 0.064 OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Placer Placer Placer West East Sutter Placer Vest East Sacramento Sacramento Soil Samples Sacramento Sacramento O Data Point - DP# Sacramento Seasonal Swale O Data Point - U# Seasonal Swale Seasonal Swale O Wetland - W# Seasonal Wetland Seasonal Wetland Pond Seasonal Wetland Vernal Pool Pond Vernal Swale Vernal Swale NRPW Willow Riparian Willow Riparian		TNW Total =	1116.699	535358.639	12.290			
OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112	OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Sutter Placer Placer Placer West East Sacramento Sacramento Sacramento Soil Samples Wetland Features - WF# © Data Point - DP# Fresh Emerg. Wetland	OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Image: Suffer Placer Placer Placer Placer Viest East Sacramento Sacramento Sacramento Image: Suffer Placer Image: Sacramento Sacramento Sacramento Image: Suffer Placer Image: Sa	OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Placer West East Placer Socil Samples Sacramento O Data Point - DP# Secramento Upland - U# Seasonal Swale Vetland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Vernal Pool TNW Vernal Swale RPW Willow Riparian NRPW Willow Riparian	OWOTUS Total = 136664.649 2471910.881 56.747 Total WF and OWOTUS = 136664.649 4709349.848 108.112 Placer West East Placer Socil Samples Sacramento Sacramento O Data Point - DP# Seasonal Swale O Data Point - DP# Seasonal Swale O Wetland - W# Seasonal Swale Other Waters of the U.S OW# Seasonal Wetland Pond Seasonal Swale PNW Vernal Sovale NRPW Willow Riparian NRPW Willow Riparian		Pond Total =	n/a	2786.430	0.064			
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	All features to remain preliminary until written verification from the USACE
-	Survey area derived from 500 ft. buffer of roadway
	Survey or West EA, BT Survey Dates 5/3/07, 5/8/07, 5/14/07, 6/21/07
	Surveyor East JO,SI,EA. Survey Dates 7/21, 24 - 28, 6/10 & 25, 2006 Aerial Feb 2005 (NAIF) Map Date August 6, 2007 Revised August 21, 2007

PG&E Line 407

Feet 100 200 0

Attachment A

Draft Delineation of the Waters of the U.S. (34 of 55)

	Туре	Length (ft.)	Area (ft.2)	Acres
Fresh E	mergent Wetland Total =	n/a	155798.956	3.57
	Riparian Total =	n/a	716664.529	16.45
	Seasonal Swale =	n/a	91891.626	2.11
	Seasonal Wetland =	n/a	942009.073	21.62
	Vernal Pool =	n/a	189878.033	4.35
	Vernal Swale =	n/a	58319.269	1.33
	Willow Riparian =	n/a	82877.480	1.90
1	Wetland Features Total =	n/a	2237438.967	51.36
Waters o	f the U.S.			
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.29
	NRPW Total =	51913.385	94843.838	2.17
	RPW Total =	78208.919	1826085.369	41.92
	TNW Total =	1116.699	535358.639	12.29
	Pond Total =	n/a	2786.430	0.06
	OWOTUS Total =	136664.649	2471910.881	56.74
	Total WF and OWOTUS =	136664.649	4709349.848	108.11



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All features to remain preliminary until written verification from the USACE Survey area derived from 500 ft. buffer of roadway Surveyor West EA, BT Survey Dates: 5/3/07, 5/8/07, 5/14/07, 6/21/07 Surveyor East JG.ST.EA. Survey Dates: 7/21, 24 - 28, 6/10 & 25, 2006 Aerial Feb: 2005 (NAIF) Map Date August 6, 2007 Revised August 21, 2007

Feet 0 100 200

Attachment A

Draft Delineation of the Waters of the U.S. (35 of 55)

	Туре	Length (ft.)	Area (ft.2)	Acres
Fres	h Emergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/a	716664.529	16.452
	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
	Willow Riparian =	n/a	82877.480	1.903
	Wetland Features Total =	n/a	2237438.967	51.365
er Water	rs of the U.S.		h.	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
	Total WF and OWOTUS =	136664.649	4709349.848	108.112



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Ind Features Type Fresh Emergent Wetland Tota Riparian Tot Seasonal Swa Searcard Wetland	Length (ft.) al = n/a al = n/a le = n/a	Area (ft.2) 155798.956 716664.529 91891.626 942000.073	Acres 3.577 16.452 2.110 21 626
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Ind Features Type Fresh Emergent Wetland Tota Riparian Tot Seasonal Swa Seasonal Wetlar Vermal Po Vermal Swa	Length (ft.) al = n/a al = n/a le = n/a ol = n/a le = n/a ol = n/a le = n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269	Acres 3.577 16.452 2.110 21.626 4.359 1.339
Ind Features Type Fresh Emergent Wetland Tota Seasonal Swa Seasonal Wetlar Vernal Po Vernal Swa Willow Riparia	Length (ft.) al = n/a al = n/a le = n/a nd = n/a ol = n/a le = n/a an = n/a	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903
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Ind Features Ind F	al = n/a $al = n/a$ $al = n/a$ $le = n/a$ $d = n/a$ $le = n/a$ $d = n/a$ $al = n/a$ $an = n/a$ $al = n/a$	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365
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Ind Features Type Fresh Emergent Wetland Tota Seasonal Wetlar Vernal Po Vernal Swa Willow Riparia Wetland Features Tota Waters of the U.S. Type Culvert Tota NRPW Tota RPW Tot	Length (ft.) al = n/a al = n/a le = n/a ol = n/a ol = n/a le = n/a an = n/a al = n/a al = n/a al = 5425.646 al = 5425.646 al = 5423.919	Area (ft.2) 155798.956 716664.529 91891.626 942009.073 189878.033 58319.269 82877.480 2237438.967 Area (ft.2) 12836.605 94843.838 1826085.369	Acres 3.577 16.452 2.110 21.626 4.359 1.339 1.903 51.365 Acres 0.295 2.177 41.921
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Fresh En	nergent Wetland Total =	n/a	155798.956	3.577
	Riparian Total =	n/ā n/ā	716664.529	16.452
	Seasonal Wetland =	n/a	942009.073	21.626
	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
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r Waters of	f the U.S.	ii) u	223, 450, 507	
	Туре	Length (ft.)	Area (ft.2)	Acres
	Culvert Total =	5425.646	12836.605	0.295
	NRPW Total =	51913.385	94843.838	2.177
	TNW Total =	1116.699	535358.639	12.290
	Pond Total =	n/a	2786.430	0.064
	OWOTUS Total =	136664.649	2471910.881	56.747
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	Total WF and OWOTUS =	136664.649	4709349.848	108.112





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and Features	Туре	Length (ft.)	Area (ft.2)	Acres
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	Туре	Length (ft.)	Area (ft.2)	Acres
Fresh Em	ergent Wetland Total =	n/a	155798.956	3.57
	Riparian Total =	n/a	716664.529	16.452
2	Seasonal Swale =	n/a	91891.626	2.110
	Seasonal Wetland =	n/a	942009.073	21.626
5	Vernal Pool =	n/a	189878.033	4.359
	Vernal Swale =	n/a	58319.269	1.339
2	Willow Riparian =	n/a	82877.480	1.903
W	etland Features Total =	n/a	2237438.967	51.365
r Waters of	the U.S.	6	1	
	Туре	Length (ft.)	Area (ft.2)	Acres
2	Culvert Total =	5425.646	12836.605	0.295
2	NRPW Total =	51913.385	94843.838	2.177
	RPW Total =	78208.919	1826085.369	41.921
2	TNW Total =	1116.699	535358.639	12.290
2	Pond Total =	n/a	2786.430	0.064
1	OWOTUS Total =	136664.649	2471910.881	56.747
	atal WE and OWOTHS -	124444 440	4700340 848	109 111

ADDENDUM to the Delineation of Waters of the United States

PG&E Line 407 Natural Gas Transmission Pipeline

Placer, Sacramento, Yolo, and Sutter Counties, CA

July 2008



Prepared for:

TRC Attention: Benjamin Hart 80 Stone Pine Road, Suite 200 Half Moon Bay, CA. 94019

Prepared by:



CONSULTING, INC. 117 Meyers Street, Suite 110, Chico, CA 95928 Phone (530) 343-8327 Fax (530) 343 8312



Date: July 23, 2008

- To: Erin Hess U.S. Army Corps of Engineers, Regulatory Branch, Sacramento District 1325 J Street, Room 1480 Sacramento, CA 95814-2922
- Re: Revised Delineation of Waters of the U.S. for the PG&E Line 407 Natural Gas Transmission Pipeline Project, Placer, Sutter, Yolo, and Sacramento Counties, CA (GCI# 2006-043).

Dear Ms. Hess:

Enclosed please find revised Delineation of Waters of the U.S. maps (Attachment A), Table of Waters of the U.S. Delineated (Attachment B), and the additional wetland data forms for the features added (Attachment C) for the PG&E Line 407 Natural Gas Transmission Pipeline project. The delineation maps were revised based on your observations during the verification visits conducted January 30-31, March 3, April 17, and May 5, 2008, which increased the total acreage of Waters of the U.S. to 113.994 acres for the revised delineation. Please note that the rice fields are not included as wetlands in the revised maps, and following consultation with our clients, we have explored further the U.S. Army Corps of Engineer's jurisdiction over rice fields. We are providing additional information stating our reasoning for not including rice fields as jurisdictional features (Attachment D).

Gallaway Consulting, Inc. (GCI) is requesting that the U.S. Army Corps of Engineers provide written verification of the revised Delineation of Waters of the U.S. Please send the verification letter to the following: TRC, Attention: Benjamin Hart, 80 Stone Pine Road, Suite 200, Half Moon Bay, CA 94019; as well as a copy to GCI.

Feel free to contact me with any questions or comments.

Sincerely,

Breanna Owens Biologist/Range Specialist

Encl: Attachments A, B, C, & D

Cc: Benjamin Hart

117 MEYERS STREET, SUITE 110 · CHICO · CA · 95928 OFFICE: 530-343-8327 · FAX: 530-343-8312 www.gallawayconsulting.net

r Waters of the U.S.				Survey Area (3523,79 a	c.)	TRUE OF	Total Contraction	STREET, SPEC	The seal of the
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Waters of the U.S. Table for the PG&E Line 407 Project

Culverts					
Label	Туре	Ave_Width	Length		
C01	Culvert	4	43.55714083		
C02	Culvert	3	27.96971331		
C03	Culvert	3	43.7735575		
C04	Culvert	3	19.29824207		
C05	Culvert	3	41.28180653		
C06	Culvert	3	31.76020589		
C07	Culvert	3	29.89248232		
C08	Culvert	4	58.74545046		
C09	Culvert	1.5	188.4849409		
C10	Culvert	1.5	128.4966634		
C100	Culvert	1	64.93691126		
C101	Culvert	1.5	20.63925988		
C102	Culvert	1	28.72091881		
C103	Culvert	2	82.3796401		
C104	Culvert		34.7853939		
C105	Culvert	1.5	25.11351706		
C106	Culvert	2	25.10914645		
C107	Culvert	2	15.45166964		
C108	Culvert	1.5	21.2642169		
C109	Culvert	1	48.38539252		
C11	Culvert	1.5	35.9990054		
C110	Culvert	1.5	34.39183174		
C111	Culvert	1	45.54257026		
C112	Culvert	1	26.21529486		
C113	Culvert	0.5	56.26297974		
C114	Culvert	0.5	180.8314387		
C115	Culvert	0.5	42.38477335		
C117	Culvert	1	49.35898964		
C118	Culvert	1	23.56133578		
C119	Culvert	1	41.44520997		
C12	Culvert	1.5	41.98158139		
C120	Culvert	1	49.52627531		
C121	Culvert	1	113.1249674		
C122	Culvert	1	23.23425197		
C123	Culvert	1	19.27633125		
C124	Culvert	1	15.41207349		
C125	Culvert	2	28.0511811		
C126	Culvert	2	48.53444882		
C127	Culvert	2	58.76861968		
C128	Culvert	2	19.60208744		
C129	Culvert	2	78.73203241		
C13	Culvert	1.5	46.94409509		
C130	Culvert	2	15.42456437		
C131	Culvert	2	68.34198978		

Label	Туре	Ave_Width	Length
C132	Culvert	2	68.34198978
C133	Culvert	1	52.74540682
C134	Culvert	2	59.5698472
C135	Culvert	1.5	26.5711894
C136	Culvert	2	90.19986877
C137	Culvert	3	84.31580734
C138	Culvert	1	16.18919038
C139	Culvert	3	77.35190177
C14	Culvert	1	29.61398606
C140	Culvert	1.5	42.36118872
C141	Culvert	1	32.66701453
C142	Culvert	15	290 4943097
C143	Culvert	1	42 41283619
C144	Culvert	2	18 39346746
C145	Culvert	2	18 68605294
C146	Culvert	2	19.87005654
C140	Culvert	2	36 71510275
C1/8	Culvert	2	56 91785662
C140	Culvert		64 67054055
0149	Culvert		04.07004900
015	Culvert	2	04.3400032
	Culvert	2	29.12233949
	Cuivert	I	202.9808173
0152		1	31.77427821
C154	Culvert		33.35988581
C155	Culvert	2	23.99138123
C156	Culvert	2	22.56721038
C157	Culvert	2	18.25080304
C158	Culvert	2	26.76748567
C159	Culvert	2	30.59179247
C16	Culvert	2	87.36625394
C160	Culvert	2	31.36318897
C161	Culvert	2	18.07480315
C162	Culvert	2	33.95352898
C163	Culvert	2	104.8365872
C164	Culvert	2	27.14400435
C165	Culvert	2	28.35579415
C166	Culvert	1	28.67113183
C167	Culvert	4	56.45405933
C168	Culvert	1.5	33.58543032
C169	Culvert	1.5	56.42949175
C17	Culvert	8	53.01509683
C170	Culvert	1.5	60.90002185
C171	Culvert	2	37.17036838
C172	Culvert	1.5	28.68858677
C173	Culvert	2	66.31764177
C174	Culvert	2.5	56.94667309

Label	Туре	Ave_Width	Length
C175	Culvert	2	38.37925075
C176	Culvert	1.5	26.03569345
C177	Culvert	2	60.82608847
C178	Culvert	1	27.02032803
C179	Culvert	1.5	33.08401312
C18	Culvert	3	64.55791143
C180	Culvert	1	49.78946923
C181	Culvert	1.5	63.5471369
C182	Culvert	1.5	50.74772826
C183	Culvert	1	62.44813259
C184	Culvert	1	69.11529195
C185	Culvert	1	22.18382759
C186	Culvert	1	48.33837452
C187	Culvert	0.5	19.39267659
C188	Culvert	0.5	23.07880156
C189	Culvert	0.5	13.44636682
C19	Culvert	3	76.83000822
C190	Culvert	0.5	29.54977951
C191	Culvert	0.5	22.14292185
C192	Culvert	0.5	12.48685965
C193	Culvert	0.5	45.68071329
C194	Culvert	0.5	12.56038618
C195	Culvert	0.5	15.50639476
C196	Culvert	0.5	21.35368837
C197	Culvert	0.5	40.51155799
C198	Culvert	1.5	70.43879573
C199	Culvert	1	87.05727081
C20	Culvert	1.5	18.56995915
C200	Culvert		45.05822023
C201	Culvert	1	38.74245407
C202	Culvert	2	38.63783436
C203	Culvert	1.5	44.35912394
C21	Culvert	1	13.53961132
C22	Culvert	2	22.92576655
C23	Culvert	2	37.4174464
C24	Culvert	3	67.53557415
C25	Culvert	2	21.62813893
C26	Culvert	3.5	12.05110441
C27	Culvert	4	38.98995083
C28	Culvert	1	15.71244838
C29	Culvert	3	30.80379485
C30	Culvert	2.5	36.26413239
C31	Culvert	1.5	15.08918743
C32	Culvert	1.5	14.39679914
C33	Culvert	2	61.96123122
C34	Culvert	1	47.93505745
C35	Culvert	1	20.77817696

Label	Туре	Ave_Width	Length
C36	Culvert	1.5	14.39679915
C37	Culvert	2	20.53379265
C38	Culvert	2	54.06547941
C39	Culvert	1.5	37.02174215
C40	Culvert	1.5	16.03758567
C41	Culvert	2.5	40.75181037
C42	Culvert	3.5	64.98457432
C43	Culvert	3	37.14604922
C44	Culvert	3	140.2731895
C45	Culvert	1.5	11.6855482
C46	Culvert	1.5	8.69560169
C47	Culvert	10.5	38.0698819
C48	Culvert	2	57 39437318
C49	Culvert	2	56 43087015
C50	Culvert	2	40 21334094
C51	Culvert	2	15 62411949
C52	Culvert	4	31 96650405
C53	Culvert	4	20 69795509
C53	Culvert	1	34 53740157
C55	Culvert	05	25 80797335
C56	Culvert	0.0	70 56916994
C57	Culvert	3	1/3 2008234
C58	Culvert	3	69 58571213
C59	Culvert	1	10 85137705
C60	Culvert	1	33 66305775
C00	Culvert		58.67653507
C67	Culvert	2	52,51015454
C62	Culvert	2	27 2264 4259
C63	Culvert	15	37.32044306
C65	Culvert	1.5	21.19290442
C65	Culvert	1	30.39402093
C66	Cuivert	2	24.30344019
007	Cuivert	2.0	106.3067647
000	Cuivert	2	90.037603
070	Cuivert	3	23.53095343
070	Cuivert	1	27.87860893
071	Culvert	3	86.94247131
072	Culvert	3	181.3386874
073	Cuivert	2	21.29447014
C/4	Culvert	2	42.58861288
C/5	Culvert	2	26.76935268
C/6	Culvert	2	27.45382751
C/7	Culvert	2	31.53248033
C78	Culvert	2	45.94858041
C79	Culvert	2	24.00189448
C80	Culvert	2	23.30643045
C81	Culvert	2	45.28912131
C82	Culvert	2	27.41961944

Label	Туре	Ave_Width	Length
C83	Culvert	2	30.87753855
C84	Culvert	1.5	78.71352359
C85	Culvert	2	101.2004036
C86	Culvert	2	34.1551739
C87	Culvert	2	34.24994567
C88	Culvert	8	58.97301925
C89	Culvert	2	51.43944863
C90	Culvert	4	30.30185639
C91	Culvert	2	47.39924272
C93	Culvert	2	25.45733263
C94	Culvert	2	28.66321653
C95	Culvert	2	64.02671737
C96	Culvert	1	23.67563337
C97	Culvert	2.5	101.5646773
C98	Culvert	2	43.30010881
C99	Culvert	2	18.21553989

Other Waters of the U.S.

Label	Designation	Туре	Ave_Width	Length	Area	Acres
OW125	NRPW	Ephemeral	6	268.927	1519.138	0.035
OW126	NRPW	Roadside Ditch	5	297.733	1488.667	0.034
OW135	NRPW	Ephemeral	5.5	220.862	1214.738	0.028
OW142	NRPW	Roadside Ditch	2	128.023	256.045	0.006
OW143	NRPW	Roadside Ditch	1.5	178.732	268.099	0.006
OW144	NRPW	Roadside Ditch	1.5	702.260	1053.389	0.024
OW146	NRPW	Roadside Ditch	2	1321.432	2642.863	0.061
OW147	NRPW	Roadside Ditch	2	854.957	1709.915	0.039
OW148	NRPW	Roadside Ditch	1.5	669.606	1004.409	0.023
OW149	NRPW	Roadside Ditch	1.5	689.692	1034.538	0.024
OW153	NRPW	Roadside Ditch	1.5	1426.310	2139.465	0.049
OW155	NRPW	Roadside Ditch	1	117.217	117.217	0.003
OW156	NRPW	Roadside Ditch	1	1232.608	1232.608	0.028
OW161	NRPW	Roadside Ditch	1	1394.172	1394.172	0.032
OW162	NRPW	Roadside Ditch	1	180.259	180.259	0.004
OW165	NRPW	Roadside Ditch	2	429.308	858.616	0.020
OW166	NRPW	Roadside Ditch	2	338.495	676.991	0.016
OW167	NRPW	Roadside Ditch	2	135.959	271.918	0.006
OW168	NRPW	Roadside Ditch	2	345.654	691.308	0.016
OW169	NRPW	Irrigation Ditch	2	1427.029	2854.057	0.066
OW170	NRPW	Roadside Ditch	1	117.217	117.217	0.003
OW171	NRPW	Roadside Ditch	1	666.522	666.522	0.015
OW172	NRPW	Roadside Ditch	2	372.894	745.788	0.017
OW173	NRPW	Roadside Ditch	2	262.352	524.705	0.012
OW174	NRPW	Roadside Ditch	2	116.451	232.901	0.005
OW175	NRPW	Roadside Ditch	2	1949.123	3898.246	0.089
OW177	NRPW	Roadside Ditch	1	51.327	51.327	0.001
OW178	NRPW	Roadside Ditch	1	486.738	486.738	0.011

Label	Designation	Туре	Ave_Width	Length	Area	Acres
OW179	NRPW	Roadside Ditch	1	181.043	181.043	0.004
OW181	NRPW	Roadside Ditch	1	467.044	467.044	0.011
OW23	NRPW	Irrigation Ditch	1.5	2224.098	3336.148	0.077
OW24	NRPW	Irrigation Ditch	1.5	2394.665	3591.997	0.082
OW25	NRPW	Irrigation Ditch	1.5	2247.889	3371.833	0.077
OW26	NRPW	Irrigation Ditch	1.5	1687.659	2531.488	0.058
OW27	NRPW	Irrigation Ditch	1.5	983.621	1475.431	0.034
OW32	NRPW	Roadside Ditch	1.5	993.080	1489.621	0.034
OW33	NRPW	Roadside Ditch	1.5	3170.089	4755.133	0.109
OW34	NRPW	Roadside Ditch	3	513.413	1540.238	0.035
OW35	NRPW	Roadside Ditch	2	2019.447	4038.893	0.093
OW36	NRPW	Roadside Ditch	3	1653.594	4960.781	0.114
OW40	NRPW	Roadside Ditch	3	1814.670	5444.010	0.125
OW47	NRPW	Roadside Ditch	1	1185.896	1185.896	0.027
OW48	NRPW	Roadside Ditch	1	167.705	167.705	0.004
OW49	NRPW	Roadside Ditch	1	2789.938	2789.938	0.064
OW50	NRPW	Roadside Ditch	1	4336.660	4336.660	0.100
OW53	NRPW	Roadside Ditch	1.5	1553.888	2330.832	0.054
OW56	NRPW	Roadside Ditch	1	164.212	164.212	0.004
OW57	NRPW	Roadside Ditch	1	147.270	147.270	0.003
OW58	NRPW	Roadside Ditch	1	219.260	219.260	0.005
OW63	NRPW	Roadside Ditch	1	1069.186	1069.186	0.025
OW85	NRPW	Roadside Ditch	1	670.664	670.664	0.015
OW86	NRPW	Roadside Ditch	1	116.404	116.404	0.003
OW89	NRPW	Roadside Ditch	5	3336.108	16680.542	0.383
OW158	Pond	Pond	n/a	n/a	483.844	0.011
OW159	Pond	Pond	n/a	n/a	958.728	0.022
OW160	Pond	Pond	n/a	n/a	1343.858	0.031
OW164	Pond	Pond	n/a	n/a	1841.036	0.042
OW01	RPW	Irrigation Canal	25	565.483	14418.651	0.331
OW02	RPW	Irrigation Canal	20	989.532	20219.892	0.464
OW03	RPW	Irrigation Canal	30	3425.669	101557.095	2.331
OW04	RPW	Irrigation Canal	35	2066.632	72309.101	1.660
		Perennial				
OW05	RPW	Stream	117	815.520	95208.943	2.186
00000		Perennial	110	1001 100	112125 017	0 507
00000	RPVV	Stream	113	1001.129	113135.017	2.597
	RPW	Stream	106	1231 639	130191 972	2 989
0000		Perennial	100	1201.000	100101.072	2.000
OW08	RPW	Stream	99	1214.657	120807.566	2.773
OW100	RPW	Irrigation Canal	10	558.826	5622.902	0.129
OW101	RPW	Irrigation Canal	11	669.110	7126.393	0.164
OW102	RPW	Irrigation Canal	11	1376.133	15156.305	0.348
OW103	RPW	Irrigation Canal	13	419.238	5550.071	0.127
OW104	RPW	Irrigation Canal	12	432.090	5081.682	0.117
OW105	RPW	Irrigation Canal	9	620.676	5277.962	0.121
OW106	RPW	Irrigation Canal	15	231.965	3503.525	0.080

Label	Designation	Туре	Ave_Width	Length	Area	Acres
OW107	RPW	Irrigation Canal	9	1838.691	16766.505	0.385
OW108	RPW	Irrigation Canal	10	323.919	3148.473	0.072
OW109	RPW	Irrigation Canal	11	948.980	10716.252	0.246
OW11	RPW	Irrigation Canal	33	4099.088	135409.736	3.109
OW110	RPW	Irrigation Canal	20	456.802	9104.835	0.209
OW111	RPW	Irrigation Canal	10	1368.159	14120.092	0.324
OW112	RPW	Irrigation Canal	16	1342.788	20835.050	0.478
OW113	RPW	Irrigation Canal	18	124.938	2211.954	0.051
OW114	RPW	Irrigation Canal	14	572.944	8142.255	0.187
OW115	RPW	Irrigation Canal	17	135.255	2356.584	0.054
OW116	RPW	Irrigation Canal	11	1727.566	19818.921	0.455
OW117	RPW	Irrigation Canal	18	419.680	7390.445	0.170
OW118	RPW	Irrigation Canal	14	1486.216	20787.093	0.477
OW120	RPW	Irrigation Canal	10	586.041	5675.215	0.130
OW121	RPW	Irrigation Canal	9	959.124	8724.159	0.200
OW122	RPW	Irrigation Canal	7	2524.123	17966.638	0.412
OW123	RPW	Irrigation Canal	13	490.265	6445.100	0.148
OW124	RPW	Irrigation Canal	5	159.537	821.914	0.019
OW127	RPW	Irrigation Canal	17	498.838	8672.126	0.199
OW128	RPW	Irrigation Canal	11	3330.897	36997.801	0.849
OW129	RPW	Irrigation Canal	23	1064.708	24580.697	0.564
OW13	RPW	Irrigation Canal	12	896.816	10829.301	0.249
OW131	RPW	Irrigation Canal	33	1040.396	34338.401	0.788
OW133	RPW	Irrigation Canal	14	90.131	1244.862	0.029
OW134	RPW	Irrigation Canal	10	413.495	3975.804	0.091
OW138	RPW	Irrigation Canal	10	665.746	6710.813	0.154
OW14	RPW	Irrigation Canal	22	911.159	20044.983	0.460
OW15	RPW	Irrigation Canal	24	428.708	10372.481	0.238
OW154	RPW	Irrigation Canal	11	449.698	4872.701	0.112
OW163	RPW	Intermittent	1.5	1098.898	1648.347	0.038
OW176	RPW	Intermittent	21	1040.157	22320.459	0.512
OW18	RPW	Irrigation Canal	38	4082.947	154241.597	3.541
OW180	RPW	Intermittent	20	1026.984	21029.012	0.483
OW19	RPW	Irrigation Canal	59	391.683	23068.673	0.530
OW29	RPW	Irrigation Canal	28	502.486	13964.104	0.321
OW30	RPW	Irrigation Canal	24	5350.767	127229.233	2.921
OW31	RPW	Irrigation Canal	24	414.813	9820.037	0.225
OW37	RPW	Irrigation Canal	20	494.010	9839.744	0.226
OW38	RPW	Irrigation Canal	15	1874.860	27972.660	0.642
OW41	RPW	Irrigation Canal	8	321.189	2540.169	0.058
OW42	RPW	Irrigation Canal	28	508.310	14038.661	0.322
OW43	RPW	Irrigation Canal	49	542.511	26642.802	0.612
OW44	RPW	Irrigation Canal	45	545.045	24535.409	0.563
OW46	RPW	Irrigation Canal	8	460.915	3815.986	0.088
OW54	RPW	Intermittent	8	1358.639	10541.255	0.242
OW55	RPW	Intermittent	9	1891.267	17537.733	0.403
OW64	RPW	Irrigation Canal	11	265.983	2916.862	0.067

Label	Designation	Туре	Ave_Width	Length	Area	Acres
OW87	RPW	Irrigation Canal	12	405.815	4994.721	0.115
OW88	RPW	Irrigation Canal	11	2030.535	22430.530	0.515
OW90	RPW	Irrigation Canal	7	1530.056	11256.621	0.258
OW91	RPW	Irrigation Canal	9	927.413	8594.903	0.197
OW92	RPW	Irrigation Canal	11	436.538	4992.365	0.115
OW93	RPW	Irrigation Canal	14	1899.072	26163.231	0.601
OW94	RPW	Irrigation Canal	13	87.095	1116.843	0.026
OW95	RPW	Irrigation Canal	18	473.305	8671.071	0.199
OW96	RPW	Irrigation Canal	10	1065.270	10188.931	0.234
OW97	RPW	Irrigation Canal	13	733.348	9814.647	0.225
OW98	RPW	Irrigation Canal	11	495.752	5563.931	0.128
OW99	RPW	Irrigation Canal	11	1581.524	16732.799	0.384
OW22	TNW	TNW	472	1134.538	535358.639	12.290

Other Waters of the U.S.

Designation	<u>Length</u>	<u>Area (ft.2)</u>	<u>Acres</u>
Pond Total =	n/a	4627.466	0.106
NRPW Total =	52489.359	96394.086	2.213
RPW Total =	78810.192	1832471.606	42.068
TNW Total =	1134.538	535358.639	12.290

Other Waters of the US Total = 132434.089 2468851.797 56.677

Wetland Features

Label	Туре	Area	Acres
WF063e	Fresh Emergent Wetland	7051.71622	0.161885129
WF018e	Fresh Emergent Wetland	119915.7128	2.752885969
WF112e	Fresh Emergent Wetland	14761.41846	0.338875539
WF112e	Fresh Emergent Wetland	17128.75624	0.393222136
WF054e	Riparian	7576.328013	0.173928559
WF111e	Riparian	1885.865947	0.043293525
WF01w	Riparian	61348.53322	1.408368531
WF02w	Riparian	32497.1789	0.746032573
WF03w	Riparian	46777.9206	1.073873292
WF04w	Riparian	32365.323	0.743005578
WF05w	Riparian	89500.92142	2.054658435
WF06w	Riparian	47804.00327	1.097428909
WF07w	Riparian	20635.66784	0.473729748
WF08w	Riparian	127869.2443	2.935473928
WF121w	Riparian	68205.87951	1.565791541
WF169w	Riparian	65013.99006	1.492515842
WF170w	Riparian	68990.7866	1.583810528
WF002e	Seasonal Swale	6226.544422	0.142941791
WF081e	Seasonal Swale	1829.800514	0.04200644
WF087e	Seasonal Swale	8261.508459	0.189658137

Label	Туре	Area	Acres
WF064e	Seasonal Swale	18899.78431	0.433879346
WF050e	Seasonal Swale	8688.504797	0.199460624
WF023e	Seasonal Swale	5649.692845	0.129699101
WF033e	Seasonal Swale	4325.135328	0.099291445
WF030e	Seasonal Swale	4324.829668	0.099284428
WF025e	Seasonal Swale	9157.075594	0.21021753
WF113e	Seasonal Swale	15124.90842	0.34722012
WF114e	Seasonal Swale	6937.801958	0.159270017
WF022e	Seasonal Swale	13090.38864	0.300513972
WF127e	Seasonal Swale	1789.15885	0.041073436
WF138e	Seasonal Swale	11036.45558	0.253362157
WF141e	Seasonal Swale	222.508013	0.005108081
WF140e	Seasonal Swale	6831.641905	0.156832918
WF174e	Seasonal Swale	16753.15363	0.384599486
WF173e	Seasonal Swale	34413.02654	0.790014383
WF068e	Seasonal Wetland	2750.279332	0.063137726
WF079e	Seasonal Wetland	2444.127463	0.056109446
WF080e	Seasonal Wetland	5974.891319	0.137164631
WF107e	Seasonal Wetland	193.2021157	0.00443531
WF108e	Seasonal Wetland	381.0436896	0.008747559
WF109e	Seasonal Wetland	193.0177375	0.004431078
WF088e	Seasonal Wetland	4917.411094	0.112888225
WF156e	Seasonal Wetland	30492.89229	0.700020484
WF157e	Seasonal Wetland	57914.22841	1.329527741
WF158e	Seasonal Wetland	43504.42612	0.998724199
WF159e	Seasonal Wetland	19330.85	0.443775252
WF160e	Seasonal Wetland	84709.45754	1.94466156
WF048e	Seasonal Wetland	58161.83457	1.335211996
WF049e	Seasonal Wetland	55883.75002	1.282914371
WF056e	Seasonal Wetland	7088.545702	0.162730618
WF161e	Seasonal Wetland	102832.983	2.360720456
WF162e	Seasonal Wetland	106408.3369	2.442799286
WF163e	Seasonal Wetland	46843.23361	1.075372672
WF164e	Seasonal Wetland	96079.77032	2.205688024
WF165e	Seasonal Wetland	23085.54179	0.529971116
WF144e	Seasonal Wetland	1740.051869	0.039946094
WF029e	Seasonal Wetland	706.8815253	0.016227767
WF026e	Seasonal Wetland	3856.908441	0.088542434
WF062e	Seasonal Wetland	2082.430193	0.047806019
WF059e	Seasonal Wetland	3844.809348	0.088264677
WF007e	Seasonal Wetland	46738.85877	1.072976556
WF001e	Seasonal Wetland	2153.707204	0.049442314
WF024e	Seasonal Wetland	4438.687603	0.101898246
WF046e	Seasonal Wetland	39320.03927	0.902663895
WF052e	Seasonal Wetland	11090.85253	0.25461094
WF053e	Seasonal Wetland	7501.48232	0.172210338
WF057e	Seasonal Wetland	1676.958962	0.03849768

Label	Туре	Area	Acres
WF060e	Seasonal Wetland	1999.442219	0.045900877
WF061e	Seasonal Wetland	2188.811561	0.050248199
WF166e	Seasonal Wetland	25985.90368	0.596554263
WF094e	Seasonal Wetland	914.3431207	0.02099043
WF168e	Seasonal Wetland	45012.58362	1.033346731
WF122e	Seasonal Wetland	3889.048412	0.089280267
WF124e	Seasonal Wetland	1540.247626	0.03535922
WF125e	Seasonal Wetland	1114.402485	0.025583161
WF126e	Seasonal Wetland	63244.31408	1.451889671
WF128e	Seasonal Wetland	2613.834484	0.060005383
WF129e	Seasonal Wetland	613.1763486	0.014076592
WF131e	Seasonal Wetland	938.5483994	0.021546107
WF133e	Seasonal Wetland	188.1756115	0.004319918
WF134e	Seasonal Wetland	386.9930945	0.008884139
WF135e	Seasonal Wetland	594.0757452	0.013638103
WF136e	Seasonal Wetland	221.0345822	0.005074256
WF137e	Seasonal Wetland	525.0483078	0.012053451
WF139e	Seasonal Wetland	351.546272	0.008070392
WF145e	Seasonal Wetland	1941.199767	0.044563815
WF142e	Seasonal Wetland	209.108027	0.00480046
WF153e	Seasonal Wetland	6961.956339	0.159824526
WF154e	Seasonal Wetland	638.4915842	0.01465775
WF155e	Seasonal Wetland	974.0692096	0.022361552
WF172w	Seasonal Wetland	5863.638832	0.134610625
WF176e	Seasonal Wetland	8815.066644	0.202366085
WF175e	Seasonal Wetland	46.19624539	0.00106052
WF005e	Vernal Pool	219.9701462	0.00504982
WF016e	Vernal Pool	6940.56938	0.159333549
WF014e	Vernal Pool	2576.502153	0.059148351
WF008e	Vernal Pool	4122.914558	0.094649095
WF032e	Vernal Pool	2674.89898	0.061407231
WF047e	Vernal Pool	6516.355947	0.149594948
WF013e	Vernal Pool	1490.674937	0.034221188
WF012e	Vernal Pool	9619.427398	0.220831667
WF058e	Vernal Pool	937.8022545	0.021528977
WF066e	Vernal Pool	198.9350775	0.004566921
WF072e	Vernal Pool	2543.298578	0.058386101
WF073e	Vernal Pool	257.7814864	0.005917849
WF075e	Vernal Pool	980.550227	0.022510336
WF069e	Vernal Pool	6772.748573	0.155480913
WF070e	Vernal Pool	1204.902207	0.027660749
WF071e	Vernal Pool	243.0803515	0.005580357
WF074e	Vernal Pool	2076.846565	0.047677837
WF077e	Vernal Pool	1125.022372	0.02582696
WF078e	Vernal Pool	2987.914579	0.06859308
WF082e	Vernal Pool	2356.538981	0.054098691
WF083e	Vernal Pool	27337.83432	0.62759032

Label	Туре	Area	Acres
WF089e	Vernal Pool	2736.224626	0.062815074
WF084e	Vernal Pool	1193.466559	0.027398222
WF085e	Vernal Pool	281.7249063	0.006467514
WF086e	Vernal Pool	733.8688998	0.016847312
WF010e	Vernal Pool	1027.041162	0.023577621
WF011e	Vernal Pool	2651.878482	0.060878753
WF009e	Vernal Pool	1693.310386	0.038873058
WF143e	Vernal Pool	1126.739404	0.025866378
WF031e	Vernal Pool	5125.524188	0.117665845
WF040e	Vernal Pool	2957.804393	0.067901846
WF003e	Vernal Pool	7029.734644	0.161380501
WF004e	Vernal Pool	1212.32934	0.027831252
WF020e	Vernal Pool	6721.209246	0.154297733
WF116e	Vernal Pool	2331.935389	0.05353387
WF117e	Vernal Pool	412.3512951	0.009466283
WF035e	Vernal Pool	3540.925691	0.081288469
WF036e	Vernal Pool	1706.004702	0.039164479
WF037e	Vernal Pool	4367.671692	0.100267945
WF038e	Vernal Pool	6502.399487	0.149274552
WF039e	Vernal Pool	2594.266176	0.059556156
WF043e	Vernal Pool	19811.00773	0.454798157
WF044e	Vernal Pool	14887.71177	0.341774834
WF045e	Vernal Pool	2388.876351	0.054841055
WF041e	Vernal Pool	5047.669752	0.115878553
WF042e	Vernal Pool	278.1320386	0.006385033
WF119e	Vernal Pool	1159.353188	0.026615087
WF091e	Vernal Pool	1221.704105	0.028046467
WF092e	Vernal Pool	1429.139778	0.032808535
WF090e	Vernal Pool	840.2607411	0.019289732
WF123e	Vernal Pool	929.5383295	0.021339264
WF167e	Vernal Pool	2471.481589	0.05673741
WF130e	Vernal Pool	3598.644042	0.0826135
WF132e	Vernal Pool	364.2152659	0.008361232
WF146e	Vernal Pool	69741.0383	1.601033937
WF147e	Vernal Pool	10417.77441	0.239159192
WF148e	Vernal Pool	6253.619339	0.143563346
WF149e	Vernal Pool	3279.721863	0.075292054
WF150e	Vernal Pool	2777.650562	0.063766083
WF151e	Vernal Pool	2121.016253	0.048691833
WF152e	Vernal Pool	1176.653647	0.027012251
WF067e	Vernal Swale	11683.73839	0.268221726
WF106e	Vernal Swale	1403.168461	0.032212315
WF006e	Vernal Swale	4796.942652	0.11012265
WF017e	Vernal Swale	5586.255405	0.128242778
WF028e	Vernal Swale	16533.63953	0.379560136
WF027e	Vernal Swale	6979.149091	0.160219217
WF034e	Vernal Swale	4657.635849	0.106924606

Label	Туре	Area	Acres
WF115e	Vernal Swale	9011.699206	0.206880147
WF118e	Vernal Swale	490.313496	0.011256049
WF120e	Vernal Swale	160.110572	0.003675633
WF09w	Willow Riparian	82877.48046	1.902605153

Wetland Features

Designation	<u>Length</u>	<u>Area (ft.2)</u>	<u>Acres</u>
Fresh Emergent Wetland Total			
=	n/a	158857.604	3.647
Riparian Total =	n/a	670471.643	15.392
Seasonal Swale Total =	n/a	173561.919	3.984
Seasonal Wetland Total =	n/a	1052112.747	24.153
Vernal Pool Total =	n/a	289326.189	6.642
Vernal Swale Total =	n/a	61302.653	1.407
Willow Riparian Total =	n/a	82877.480	1.903
Wetland Features Total =	n/a	2488510.235	57.128
OWOTUS and WF Total =	132434.089	4957362.032	113.805

Project/Site: PG&E Line 407(East)	City/County:Placer/S	utter/Sacramento	Sampling Date: 5/5/08					
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W ()18de				
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township, R	ange:Please see Locatio	n Map for all Sec, T	'own,Range				
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):None		Slope (Slope (%):1				
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum:	VGS84				
Soil Map Unit Name: Xerofluvents		NWI classific	cation: Fresh Emerge	nt Wetland				
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🍙 👘 No (C (If no, explain in R	lemarks.)					
Are Vegetation Soil or Hydrology significantly	disturbed? Are	e "Normal Circumstances" p	oresent? Yes 🌘	No 🦳				
Are Vegetation Soil or Hydrology naturally pro	oblematic? (If r	needed, explain any answe	rs in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes (e) Yes (e) Yes (e)	No (^ No (^ No (^	Is the Sampled Area within a Wetland?	Yes	No (
Remarks:	1-	04	Section 2 Street 1 (2017) 2 Starts 25 Street Action 2017	2002.24.044	 90000333 - 0294	

	Absolute	Dominant	t Indicator	Dominance Test we	orkshee	et:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominan	t Specie	S		
1.				That Are OBL, FACV	V, or FA	.C: 1	2	(A)
2.				Total Number of Der	ninont			
3.	<u>.</u>		53 -	Species Across All S	Strata:	1		(B)
4	14							
		·		 Percent of Dominant 	Specie	S .	~ ~	
Sapling/Shrub Stratum	70			That Are OBL, FACV	N, OFFA	IC: 100).0 %	(A/B)
1.				Prevalence Index w	/orkshe	et:		
2	<u>81</u>			Total % Cover o	if:	Multip	v bv:	
3	33			OBL species	75	x 1 =	75	2
3.			2	FACW species	5	x2=	10	
4. 	23 <u> </u>	s	27		3	× 2 -	10	
5						x 5 -	U	
Total Cover	: %			FACU species		X 4 =	0	
	12201200			UPL species		x 5 =	0	
1.Typha latifolia	75	Yes	OBL	Column Totals:	80	(A)	85	(B)
² .Rumex crispus	5		FACW	- Duavalan as lus	las - D	(A _	1 07	
3.				Prevalence inc	ex = B/	A =	1.06	
4.			21.	Hydrophytic Vegeta	ation in	dicators:		
5.				X Dominance Tes	t is >50%	%		
6.	8		(a)	Prevalence Inde	ex is ≤3.0	0 ¹		
7.	8		<u>}]</u>	Morphological A	daptatio	ons ¹ (Provide	supporti	ng
8.			5.	- data in Rema	arks or o	n a separate	sheet)	
Total Cover		-	2	Problematic Hyd	drophytic	c Vegetation	(Explair	1)
Woody Vine Stratum	. 80 %							
1.				¹ Indicators of hydric	soil and	d wetland hy	drology	must
2			27. 	be present.				
			50 	Hydrophytic				
	• 70			Vegetation				
% Bare Ground in Herb Stratum 20 % % Cover	of Biotic C	Crust	%	Present?	Yes (No (•	
Remarks:				<u>).</u>				

Profile Des	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix		Rede	ox Feature	əs		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	7.5YR 3/4	100					silty loam	
5	7.5YR 3/4	95	7.5YR 5/9	5	С		silty clay loam	
57 		59 5	10 7	-590 - 5			N I (567)	
		~ ~~~~	Q				51	
<u>e</u>						<u></u>	756	
								2
¹ Type: C=C	Concentration, D=Depl	letion, RM	I=Reduced Matrix.	² Locatio	n: PL=Pore	Lining, R	C=Root Channel, M=M	Matrix.
³ Soil Textur	es: Clay, Silty Clay, S	Sandy Cla	y, Loam, Sandy Cla	/ Loam, S	andy Loam,	Clay Loa	m, Silty Clay Loam, Si	ilt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicabl	e to all Li	RRs, unless otherwis	e noted.)			Indicators for Prob	plematic Hydric Soils:
Histoso	ol (A1)		Sandy Red	ox (S5)			1 cm Muck (A	9) (LRR C)
Histic E	Epipedon (A2)		Stripped M	latrix (S6))		2 cm Muck (A	10) (LRR B)
Black H	Histic (A3)		Loamy Mu	cky Miner	ral (F1)		Reduced Vert	tic (F18)
Hydrog	ien Sulfide (A4)	• \	Loamy Gle	yed Matr	1X (F2)		Red Parent M	laterial (TF2)
	uck (A9) (LRR C	•}		haunx (Fo K Surface) (F6)			Thr Remarks)
Denlete	ed Below Dark Surface	ə (A11))ark Surfa	ace (E7)			
Thick E)ark Surface (A12)	- (Redox De	pressions	(F8)			
Sandy	Mucky Mineral (S1)		Vernal Po	ols (F9)	()		⁴ Indicators of hydr	ophytic vegetation and
Sandy	Gleyed Matrix (S4)			. ,			wetland hydrolo	ogy must be present.
Restrictive	Layer (if present):							inegradu
Type:								
Depth (ii	nches):						Hydric Soil Prese	nt? Yes 🕢 No 🤇
Remarks:								
HYDROLO	DGY							
Wetland H	vdrology Indicators:						Secondary In	idicators (2 or more required)
Primary Ind	icators (any one indica	ator is sut	ficient)				Water M	arks (B1) (Riverine)
Surface	e Water (A1)		Salt Crus	t (B11)			🗙 Sedimen	t Deposits (B2) (Riverine)
High W	ater Table (A2)		🔀 Biotic Cru	ust (B12)			🗙 Drift Dep	oosits (B3) (Riverine)
Satura	tion (A3)		Aquatic li	nvertebra	tes (B13)		X Drainage	e Patterns (B10)
Water	Marks (B1) (Nonriveri	ne)	Hydroger	n Sulfide (Ddor (C1)		Dry-Seas	son Water Table (C2)
Sedime	ent Deposits (B2) (Nor	nriverine) X Oxidized	Rhizosph	eres along l	Living Roc	ots (C3) 🗍 Thin Mud	ck Surface (C7)
Drift De	eposits (B3) (Nonriver	ine)	Presence	of Reduc	ced Iron (C4)	Crayfish	Burrows (C8)
X Surface	e Soil Cracks (B6)		Recent Ir	on Reduc	tion in Plow	ed Soils (0	C6) 🗌 Saturatio	on Visible on Aerial Imagery (C9)
X Inunda	tion Visible on Aerial Ir	magery (I	37) 🗍 Other (Ex	plain in F	Remarks)		Shallow	Aquitard (D3)
Water-	Stained Leaves (B9)						FAC-Neu	utral Test (D5)
Field Obse	rvations:							35 - 55
Surface Wa	iter Present? Ye	es (No 🍙 🛛 Depth (ii	nches):				
Water Table	e Present? Ye	es 🤇	No 🌘 Depth (ii	nches):				
Saturation I	Present? V		No C Depth (ii	nches):				
(includes ca	apillary fringe)	00 (Wetla	and Hydrology Prese	ent? Yes 🛈 No 🤇
Describe R	ecorded Data (stream	gauge, m	nonitoring well, aerial	photos, p	previous ins	pections),	if available:	
Aerial froi	n Casil, April 200	4						
Remarks:								

Project/Site: PG&E Line 407(East)	_ City/County:Placer	City/County:Placer/Sutter/Sacramento Sampling D			
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: V	V58, 150-152e	
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township,	Range:Please see Locatio	on Map for all Sec	c,Town,Range	
Landform (hillslope, terrace, etc.):	Local relief (conca	ve, convex, none): <u>None</u>	Slop	e (%):1	
Subregion (LRR): <u>C</u> - Mediterranean California Lat: 38	3 45'03.51"N	Long: 121 30'05.56"	W Datur	n:WGS84	
Soil Map Unit Name: Cometa-Fiddyment Complex, 1-5% slopes	5	NWI classific	cation: Vernal Poo	ol	
Are climatic / hydrologic conditions on the site typical for this time of y	/ear?Yes 🌔 👘 N	lo 🥂 👘 (If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology significantl	y disturbed? A	Are "Normal Circumstances"	present? Yes 🌘	No	
Are Vegetation Soil or Hydrology naturally p	roblematic? (lf needed, explain any answe	ers in Remarks.)		
		5 67 19 6 19		a ar	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes (e) Yes (e)	No (No (Is the Sampled Area				
Wetland Hydrology Present?	Yes (No 🍘	within a Wetland?	Yes (.	No (
Remarks:							

sare senare se attace se acceso se	Absolute	Dominant	Indicator	Dominance Test work	(sheet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant S	pecies		
1			12	That Are OBL, FACW,	or FAC:	3	(A)
2.				Total Number of Domin	lant		
3.				Species Across All Stra	ata:	3	(B)
4.	54 			- Demonstraf Demoissant O			4-194 VI
	%	·		That Are OBL FACW	or FAC:	100.0.9/	(Δ/R)
Sapling/Shrub Stratum						100.0 76	(,)
1.				Prevalence Index wor	ksheet:		
2.				Total % Cover of:		Multiply by:	_
3.				OBL species	50 x	1 = 50	
4.	e			FACW species	35 X	2 = 70	
5.	<u> </u>		<u></u>	FAC species	10 ×	3 = 30	
Total Cover	: %	-		FACU species	x	4 = 0	
Herb Stratum				UPL species	5 X	5 = 25	
¹ . Lasthenia fremontii	30	Yes	OBL	Column Totals: 1	00 (A	A) 17:	5 (B)
2. Polypogon monspeliensis	35	Yes	FACW				
³ .Plagiobothrys stipitatus var. micranthus	20	Yes	OBL	Prevalence Index	: = B/A =	1.7	5
4. Lythrum sp.	10		FAC	Hydrophytic Vegetatio	on Indica	ators:	
5. Leontodon taraxacoides	5		UPL	🗙 Dominance Test is	; >50%		
6.			55 5	🗙 Prevalence Index i	s ≤3.0¹		
7.		2.41 		Morphological Ada	ptations ¹	(Provide suppo	rting
8.	8			- data in Remarks	s or on a	separate sheet)	··· 12
Total Cover	100%			Problematic Hydro	phytic Ve	egetation' (Expla	in)
Woody Vine Stratum	100 %						
1.				¹ Indicators of hydric so	oil and we	etland hydrology	/ must
2.				be present.			
 Total Cover	: %	No N		Hydrophytic			
% Bare Ground in Herb Stratum% % Cover of Biotic Crust% Present? Yes (No (
Remarks:		27		1.5			

Depth	Matrix	e to the de	ptil lieeded to	Redox Featu	res	or commin	ule absence of i	nuicators.)		
(inches)	Color (moist)	%	Color (moi	st) %	Type ¹	Loc ²	Texture ³	F	Remarks	
0-2	10YR 3/4	75	7.5 YR 6/8	25		с	lay loam			
2-6	7.5YR 3/3	100								
R				198		1 		stie		
-	-204		8					Sp.		
<u>er</u>	-754							5 6		
		200	13	22				100 1		
5.		2011 - C	3.	127						
¹ Tvpe: C=0	 Concentration. D=De	pletion. RM	I=Reduced Ma	trix. ² Locat	on: PL=Pore	Lining, RC	=Root Channel. I	M=Matrix.		
³ Soil Textur	es: Clay, Silty Clay,	Sandy Cla	y, Loam, Sand	y Clay Loam,	Sandy Loam	, Clay Loam	, Silty Clay Loam	, Silt Loam, Silt,	Loamy Sand, Sa	nd.
Hydric Soil	Indicators: (Applical	ble to all LF	RRs, unless oth	erwise noted.)		Indicators for F	Problematic Hydr	ic Soils:	
Histoso	ol (A1)		Sand	y Redox (S5)			1 cm Mucł	(A9) (LRR C)		
Histic E	Epipedon (A2)		Strip	oed Matrix (S6	5)		2 cm Mucł	(A10) (LRR B)		
Black H	listic (A3)		Loan	ny Mucky Mine	eral (F1)		Reduced \	/ertic (F18)		
Hydrog	en Sulfide (A4)	0)	Loan	ny Gleyed Mat	rix (F2)		Red Parer	t Material (TF2)	N	
	ed Layers (A5) (LRR	C)		eted Matrix (F	3) (E6)		Other (Exp	lain in Remarks)	
	ed Below Dark Surfa	ce (A11)		eted Dark Sunat	face (F7)					
Thick E	Dark Surface (A12)		Redo	x Depression	s (F8)					
Sandy	Mucky Mineral (S1)		🗙 Vern	al Pools (F9)	()		⁴ Indicators of h	ydrophytic vege	tation and	
Sandy	Gleyed Matrix (S4)						wetland hyd	Irology must be p	oresent.	
Restrictive	Layer (if present):									-
Type: H	ardpan									
Depth (ii	nches):6		181				Hydric Soil Pre	sent? Yes 🖲	No (
Remarks:										
HYDROLO	DGY									
Wetland H	vdrology Indicators	•					Secondar	v Indicators (2 o	r more required)	
Primary Ind	icators (any one indi	• cator is sut	ficient)				Wate	r Marks (B1) (Ri	verine)	
	e Water (A1)	0000110 001		Crust (B11)			Sedir	nent Denosits (B	2) (Riverine)	
	ater Table (A2)			ic Crust (B12)				Denosits (B3) (R	iverine)	
	tion $(A3)$			atic Invertebr	ates (B13)		Drain	ade Patterns (B ²	10)	
Water	Marks (B1) (Nonrive	rine)		lrogen Sulfide	Odor (C1)		Drv-S	Season Water Ta	ble (C2)	
X Sedime	ent Deposits (B2) (N o	onriverine	X Oxi	dized Rhizosp	heres along	Living Roots	s (C3) 🗍 Thin I	Muck Surface (C	;7)	
Drift De	eposits (B3) (Nonrive	erine)	Pre	sence of Redu	iced Iron (C4	l)	Crayf	ish Burrows (C8)	
X Surface	e Soil Cracks (B6)		Red	ent Iron Redu	ction in Plov	ed Soils (Ce	6) 🗌 Satur	ation Visible on .	Aerial Imagery (C	9)
Inunda	tion Visible on Aerial	Imagery (I	37) 🗌 Oth	er (Explain in	Remarks)		Shall	ow Aquitard (D3))	
Water-	Stained Leaves (B9)						FAC-	Neutral Test (D5)	
Field Obse	rvations:									
Surface Wa	iter Present?	Yes (No 🌔 🛛 De	pth (inches):						
Water Table	e Present?	Yes 🤇	No 🌘 🛛 De	pth (inches):						
Saturation I	Present?	Yes (No 💽 🛛 De						0	
(includes ca	apillary fringe)	•				Wetlaı	nd Hydrology Pr	resent? Yes	(• No (
Aerial from	ecorded Data (strear	n gauge, m ∩4	ionitoring well,	aerial photos,	previous ins	pections), if	available:			
	n Casil, April 20	04								
Remarks:										

Project/Site: PG&E Line 407(East)	City/County:Placer/Sut	ter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: ${\mathbf W}$	122e	
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Rar	Fown,Range			
Landform (hillslope, terrace, etc.):	Local relief (concave, c	onvex, none):None	Slope	(%):2	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum:	WGS84	
Soil Map Unit Name: Xerofluvents		NWI classific	cation: Seasonal We	tland	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🕞 👘 No 🌔	(If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology significantly	disturbed? Are "I	Normal Circumstances"	present? Yes 🌘	No (
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If ne	eded, 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 🌘	No (Is the Sampled Area			
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes	No (
Remarks:						

and annual the statement of therein we	Absolute	Dominant	Indicator	Dominance Test w	orksheet	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominan	t Species	8		
1.		341		That Are OBL, FAC	W, or FA	C:	3	(A)
2.				Total Number of Do	minant			
3.				Species Across All S	Strata:		3	(B)
4.	107		17 					100 00
	%		5.	 Percent of Dominan That Are OBL_EAC 	t Species	1 C: 1	00.0.9/	(Δ/B)
Sapling/Shrub Stratum					n, or i i i	J. 1	00.0 %	(~~)
1.				Prevalence Index worksheet:				
2.				Total % Cover of:Multiply k				-
3.				OBL species	55	x 1 =	55	
4.	· · · · ·			FACW species	20	x 2 =	40	
5.				FAC species	15	x 3 =	45	
	. %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
¹ .Lolium multiflorum	50	Yes	OBL.	Column Totals:	90	(A)	140	(B)
² .Rumex crispus	20	Yes	FACW			1 899 51	10.00 00000	
^{3.} Hordeum marinum ssp. gussoneanum	15	Yes	FAC	Prevalence Inc	dex = B/i	Α =	1.56	
4. Plagiobothrys stipitatus	5		OBL	Hydrophytic Veget	ation Inc	licators:		
5.			22	X Dominance Tes	t is >50%	0		
6.	3.		n'	X Prevalence Inde	exis ≤3.0	1		
7.				Morphological A	Adaptatio	ns ¹ (Provi	de supporti	ng
8.			7	- data in Rem	arks or o	n a separa	ate sheet)	224
Total Cove	. 00 %		3	Problematic Hy	drophytic	Vegetatio	on' (Explain	1)
Woody Vine Stratum	90 %							
1.				¹ Indicators of hydric	soil and	wetland	hydrology	must
2.				be present.				
Total Cove	: %	999	2	Hydrophytic				
% Bare Ground in Herb Stratum $10~\%$ % Cove	r of Biotic (Crust	%	Present?	Yes (No	C	
Remarks:		27 27	15					

Profile Des	scription: (Describe	to the de	pth needed to	document the	indicator	or confirr	n the ab	sence of indicat	ors.)	
Depth (inches)	Matrix	0/	Color (mag	Redox Feature	es Turci	1 0 0 2	Test		Demento	
	Color (moist)			ISL} 70	iype	LOC-		ure	Remarks	
0-5	7.5YK 3/4	100			~		silty clay	yloam		
5	7.5YR 3/4	95	<u>7.5YR 5/9</u>	5	<u>C</u>		clay loa	<u>m</u>		
	- 0. .									
	- 036					· · · · · · · · · · · · · · · · · · ·				
50 		104		3490	10		12	50		
20- 20-		20 N - C					0			
¹ Type: C=C	Concentration D=Den	letion RM	M=Reduced Ma	trix ² l ocatio	n' PI =Por	lining R	C=Root	Channel M=Mat	rix	
³ Soil Textur	res: Clay, Silty Clay, S	Sandy Cla	ay, Loam, Sand	ly Clay Loam, S	andy Loam	, Clay Loa	am, Silty	Clay Loam, Silt L	.oam, Silt, Loamy Sa	and, Sand.
Hydric Soil	Indicators: (Applicabl	le to all L	RRs, unless oth	erwise noted.)			Indic	ators for Problem	natic Hydric Soils	
Histoso	ol (A1)		Sand	y Redox (S5)				1 cm Muck (A9) ((LRR C)	
Histic E	Epipedon (A2)		Strip	ped Matrix (S6)	6			2 cm Muck (A10)	(LRR B)	
Black H	Histic (A3)		Loan	ny Mucky Miner	ral (F1)			Reduced Vertic (F18)	
Hydrog	jen Sulfide (A4)	• `	Loan	ny Gleyed Matr	ix (F2)			Red Parent Mate	rial (TF2)	
Stratifie	ed Layers (A5) (LRR (Nuck (A0) (LBB D)	<i>.</i> }		eted Matrix (F3) (E6)		X	Other (Explain in	Remarks)	
Deplete	ed Below Dark Surfaci	e (A11)	Denl	eted Dark Surfa	ace (E7)					
	oark Surface (A12)	0 ((11)	Red	ox Depressions	(F8)					
Sandy	Mucky Mineral (S1)		Vern	al Pools (F9)	()		⁴Indi	cators of hydroph	nytic vegetation and	
Sandy	Gleyed Matrix (S4)						v	vetland hydrology	must be present.	
Restrictive	Layer (if present):									
Type:										
Depth (ii	nches):						Hydr	ic Soil Present?	Yes 🙆 🛛 Ne	»C
Remarks:]	flood plain						15 15			
HYDROLO	DGY									
Wetland H	vdrology Indicators:							Secondary Indic	ators (2 or more rec	uired}
Primary Ind	licators (any one indic	ator is su	fficient)					Water Marks	s (B1) (Riverine)	
Surface	e Water (A1)			t Crust (B11)				Sediment D	eposits (B2) (Riveri	ne)
High W	/ater Table (A2)		X Bio	tic Crust (B12)				X Drift Deposi	ts (B3) (Riverine)	·····)
Saturat	tion (A3)		Aqu	uatic Invertebra	tes (B13)			X Drainage Pa	atterns (B10)	
Water	Marks (B1) (Nonriveri	ine)	П Нус	drogen Sulfide (Ddor (C1)			Dry-Season	Water Table (C2)	
Sedime	ent Deposits (B2) (Noi	nriverine) 🗙 Oxi	dized Rhizosph	eres along	Living Ro	ots (C3)	Thin Muck S	Surface (C7)	
Drift De	eposits (B3) (Nonrive	rine)	Pre	sence of Reduc	ced Iron (C4	4)	1924. 20	Crayfish Bu	rrows (C8)	
X Surface	e Soil Cracks (B6)		Red	cent Iron Reduc	tion in Plov	ed Soils ((C6)	Saturation V	isible on Aerial Ima	gery (C9)
X Inunda	tion Visible on Aerial I	magery (B7) 🗍 Oth	ier (Explain in F	Remarks)			Shallow Aqu	uitard (D3)	
Water-	Stained Leaves (B9)							FAC-Neutra	l Test (D5)	
Field Obse	rvations:									
Surface Wa	ater Present? Y	es (No 🍙 🛛 De	epth (inches):						
Water Table	e Present? Y	es 🤇	No 🌘 🛛 De	epth (inches):						
Saturation I (includes ca	Present? Y apillary fringe)	es (epth (inches):		Wet	land Hyd	drology Present	? Yes (N	• (
Describe Re Aerial from	ecorded Data (stream n CaSIL, April 200	gauge, n 14	ionitoring well,	aeriai photos, p	previous ins	pections),	it availa	DIE:		
Remarks:										

Project/Site: PG&E Line 407(East)	City/County:Placer/S	Sutter/Sacramento	Sampling Date: 5/5/	08
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W	123e
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, F	Range:Please see Locatio	on Map for all Sec, T	lown,Range
Landform (hillslope, terrace, etc.):	Local relief (concave	e, convex, none):None	Slope	(%):4
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum:	WGS84
Soil Map Unit Name: Xerofluvents		NWI classifi	cation: Vernal Pool	2
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌔 👘 No	C (If no, explain in F	Remarks.)	
Are Vegetation Soil or Hydrology significantly	/ disturbed? Are	e "Normal Circumstances"	present? Yes 🌘	No 🦳
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If r	needed, explain any answe	ers in Remarks.)	
			11 12 12 12 12 12 12	0.011

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🌘 Yes 🌘	No (No (is the Sampled Area			
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes (No (
Remarks:						

sare senare se abbate se aporto te	Absolute	Dominant	Indicator	Dominance Test we	orksheet			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominan	t Species			
1			12	That Are OBL, FAC	N, or FAC): (3	(A)
2.				Total Number of Dor	ninant			
3.				Species Across All S	Strata:		3	(B)
4.				- Deveent of Deminent	Chasica			94-92 K.0
	%			That Are OBL, FAC	N. or FAC	C: 10	0.0%	(A/B)
Sapling/Shrub Stratum						10	0.0 /0	(*)
1.			2	Prevalence Index worksheet:				
2.				Total % Cover c	of:	Multip	ly by:	-
3.		e		OBL species	40	x 1 =	40	
4.	8 			FACW species	30	x 2 =	60	
5.	2 <u> </u>			FAC species	25	x 3 =	75	
Total Cover	: %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
¹ .Plagiobothrys stipitatus	30	Yes	OBL	Column Totals:	95	(A)	175	(B)
2. Juncus buffonius	10		FACW		22			
^{3.} Hordeum marinum ssp. gussoneanum	20	Yes	FACW	Prevalence Inc	lex = B/A	/ =	1.84	
⁴ .Lolium multiflorum	25	Yes	FAC	Hydrophytic Veget	ation Ind	icators:		
5. Lasthinia fremontii	10		OBL	🗙 Dominance Tes	t is >50%			
6.			N	X Prevalence Inde	ex is ≤3.0́	1		
7.				Morphological A	daptatior	ns ¹ (Provide	supporti	ng
8.			5)	- data in Rema	arks or on	i a separate	e sheet)	224
Total Cover	05.0/			Problematic Hyd	drophytic	Vegetation	' (Explair	1)
Woody Vine Stratum	33 70							
1.				¹ Indicators of hydric	soil and	wetland hy	/drology	must
2.				be present.				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum 5 % % Cover	of Biotic C	Crust	%	Present?	Yes (e	No (
Remarks:		32		7.5				

0-5 5	7.5YR 3/4 7.5YR 3/4			<u> </u>	ype'		av loam	3 .	Temarks	
<u> </u>	7.5YR 3/4 7.5YR 3/4	<u>100</u> 95 7.5YR				- cla	av loam			
	7.5YR 3/4	<u>95</u> 7.5YR			y <u></u> y			5a		
			. 5/9		<u>C</u>	<u>cla</u>	ay loam	<u></u>		
Type: C=C Soil Texture Iydric Soil Ii Histosol Histic E Black H Hydroge Stratifie Coplete Thick Da Sandy M Sandy M Sandy C Stratictive Type: Depth (in Remarks:	oncentration, D=Dep es: Clay, Silty Clay, S ndicators: (Applicabl (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) (LRR 0) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Sleyed Matrix (S4) Layer (if present): ches):	letion, RM=Reduc Sandy Clay, Loam le to all LRRs, unic	ed Matrix. Sandy Clay L ss otherwise Sandy Redox Stripped Mat Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Vernal Pools	² Location .oam, Sa noted.) (S5) trix (S6) cy Minera ed Matrix trix (F3) Surface rk Surface rk Surface ssions ((F9)	al (F1) < (F2) (F6) (F6) (F8)	Lining, RC= , Clay Loam,	Root Channel, I Silty Clay Loam Indicators for F 1 cm Muck 2 cm Muck Reduced V Red Parer Other (Exp ⁴ Indicators of h wetland hyd	M=Matrix. a, Silt Loam, Silt. Problematic Hyd (A9) (LRR C) (A10) (LRR B) /ertic (F18) at Material (TF2) plain in Remarks hydrophytic vege lrology must be esent? Yes (Loamy Sand ric Soils ¹ :) tation and present.	1, Sand
	GY									
Vetland Hy	drology Indicators:						Secondar	v Indicators (2 c	r more require	nd)
Primany India	cators (any one indic	ator is sufficient)						r Marks (B1) (R	verine)	<u>uy</u>
	Water (A1)		Salt Crust (B11)			— Nute	nent Denosits /F	(Riverine)	1
	ater Table (A2)		Biotic Crust	t (B12)				Denosits (B3) (R	iverine))
Saturati	on (A3)		Aquatic Inv	ertebrate	es (B13)		Drain	age Patterns (B	10)	
Water N	/arks (B1) (Nonriver i	ine)	Hvdrogen S	Sulfide O	dor (C1)		Drv-S	Season Water Ta	able (C2)	
X Sedime	nt Deposits (B2) (No i	nriverine)	Oxidized R	hizosphe	eres along l	Living Roots	(C3) Thin	Muck Surface (0	27)	
Drift De	posits (B3) (Nonrive	rine)	Presence o	f Reduc	ed Iron (C4	•)	Crayl	ish Burrows (C8)	
X Surface	Soil Cracks (B6)		Recent Iror	n Reduct	ion in Plow	ed Soils (C6)) 🗙 Satur	ation Visible on	, Aerial Imager	ry (C9)
lnundati	on Visible on Aerial I	magery (B7)	Other (Expl	lain in Re	emarks)		Shall	ow Aquitard (D3)	
Water-S	Stained Leaves (B9)						FAC-	Neutral Test (D	5)	
ield Obser	vations:								-56	
Surface Wat	ter Present? Y	es 🌔 🛛 No 🌘	Depth (inc	hes):						
Vater Table	Present? Y	es 🤇 🛛 No 🌘	Depth (inc	hes):						
Saturation P	resent? Y pillary fringe)	es (No (Depth (inc	hes):		Wetland	d Hydrology Pr	esent? Yes	No	C
escribe Re	corded Data (stream	gauge, monitoring	g well, aerial p	hotos, p	revious ins	pections), if a	available:			
	r Casil, April 200	255 S								
Louis and a										
kemarks:										

Project/Site: PG&E Line 407(East)	City/County:Placer/Sutter	r/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point	W 124-125e	
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Range	Sec, Town, Range			
Landform (hillslope, terrace, etc.):	Local relief (concave, con	vex, none):None	S	lope (%):2	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N L	ong: 121 30'05.56" `	W Da	tum: WGS84	
Soil Map Unit Name: Xerofluvents		NWI classific	ation: Seasonal	Wetland	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 💽 🛛 No 🦳	(If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology significantly	/ disturbed? Are "No	rmal Circumstances" p	oresent? Yes 🤇	No C	
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If neede	ed, 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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes	No (
Remarks:						

	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:	3	(A)
2.				Total Number of Do	minant			
3.				Species Across All	Strata:		3	(B)
4.	94				10			2029 20
	%	с ь. б	K	That Are OBL FAC	W or FA	s C' 1	00.0%	(A/B)
Sapling/Shrub Stratum					,	1	00.0 /0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1.				Prevalence Index	workshee	et:		
2.				Total % Cover	of:	Mult	iply by:	-
3.				OBL species	50	x 1 =	50	
4.	9			FACW species	30	x 2 =	60	
5.				FAC species	15	x 3 =	45	
Total Cover	. %	- <u>-</u>		FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
¹ .Lolium multiflorum	50	Yes	OBL.	Column Totals:	95	(A)	155	(B)
2. Rumex crispus	20	Yes	FACW					
^{3.} Hordeum marinum ssp. gussoneanum	15	Yes	FAC	Prevalence Index = B/A = 1.63				
4. Juncus buffonius	10		FACW	Hydrophytic Vegetation Indicators:				
5.	o <u> </u>			🗙 Dominance Tes	st is >50%	6		
6.	2	A	ai	X Prevalence Ind	lex is ≤3.0) ¹		
7.			29	Morphological /	Adaptatio	ns ¹ (Provid	de support	ing
8.			53 	- data in Rem	narks or o	n a separa	ite sheet)	13
Total Cover	05 %			Problematic Hy	/drophytic	: Vegetatic	n' (Explair	1)
Woody Vine Stratum	35 70							
1.				¹ Indicators of hydrid	c soil and	wetland	hydrology	must
2.				be present.				
Total Cover	: %		52 5	Hydrophytic				
% Bare Ground in Herb Stratum5 % % Cover	of Biotic C	Crust	%	Present?	Yes (No	C	
Remarks:				1				

Profile Des	cription: (Describe f	to the de	pth needed to	document the	indicator of	or confirm	n the absence of i	ndicators.)
Depth	Matrix			Redox Feature	es		2-2 X 6	-2 5
(inches)	Color (moist)	%	Color (moi	ist) %	Type ¹	Loc ²	Texture ³	Remarks
0-5	7.5YR 3/4	100					silty clayloam	
5	7.5YR 3/4	95	7.5YR 5/9	5	С		clay loam	
10-	40 ⁷⁷	9 79 - 9		(38)				2
20 20				• C)	Q			
<u></u>						<u></u>	<u></u>	
				205			1	
		85 - 5						
		Pres sur			0 			
³ Coll Tootum	Concentration, D=Depl	etion, RM	1=Reduced Ma	trix. ² Locatio	n: PL=Pore	Lining, R	C=Root Channel, M	M=Matrix.
"Soll Textur	es: Clay, Sitty Clay, S	andy Cla	y, Loam, Sand	ly Clay Loam, S	andy Loam	, Стау соаг	m, Slity Clay Loar	i, Silt Loam, Silt, Loamy Sand, Sand.
Histoso	indicators: (Applicabl	e to all LF	KKS, UNIESS OU	V Redex (S5)				(A9) (I RR C)
Histic E	Epipedon (A2)		Strip	ped Matrix (S6)			2 cm Muck	(A10) (LRR B)
Black H	listic (A3)		Loar	ny Mucky Miner	al (F1)		Reduced \	/ertic (F18)
Hydrog	en Sulfide (A4)		Loar	ny Gleyed Matri	x (F2)		Red Parer	t Material (TF2)
Stratifie	ed Layers (A5) (LRR C	;)	Depl	eted Matrix (F3)		X Other (Exp	blain in Remarks)
1 cm M	luck (A9) (LRR D)		Rede	ox Dark Surface	(F6)			
	ed Below Dark Surface	ə (A11)	× Depi	eted Dark Surfa	ICE (F7)			
	Mucky Mineral (S1)			al Pools (F9)	(ГО)		⁴ Indicators of h	vdronhytic vegetation and
Sandy	Gleved Matrix (S4)						wetland hvo	Irology must be present.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Pre	sent? Yes 🕡 No 🤇
Remarks: F	lood plain						421	
	0000073300 455 a 03-0869-66005							
HYDROLO	JGY							
Wetland Hy	drology Indicators:		S.				Secondar	y Indicators (2 or more required)
Primary Ind	icators (any one indica	ator is suf	ficient)				Wate	r Marks (B1) (Riverine)
Surface	e Water (A1)		Sal	t Crust (B11)			X Sedir	nent Deposits (B2) (Riverine)
High W	ater Table (A2)		× Bio	tic Crust (B12)			X Drift [Deposits (B3) (Riverine)
Saturat	ion (A3)		Aqu	uatic Invertebrat	es (B13)		X Drain	age Patterns (B10)
vvater r	viarks (B1) (Nonriveri	ne) 	Hyd	drogen Suitide C	Jaor (C1)			Season Water Table (C2)
	eni Deposits (B2) (Nor	iriverine;		alzea Rhizosph	eres along l	Living Roo V		Nuck Surface (C7)
	Soil Cracks (B6)	iiie)		cent Iron Reduc	tion in Plow) ad Sails ((C6) Cray	ration Visible on Aerial Imageny (C9)
	tion Visible on Aerial I	madery (F	37) 0th	er (Explain in R	emarks)		Shall	nw Aquitard (D3)
Water-S	Stained Leaves (B9)	nugory (L			iomanto)			Neutral Test (D5)
Field Obse	rvations:							
Surface Wa	ter Present? Ye	es C	No 🍙 🛛 De	epth (inches):				
Water Table	e Present? Y	es C	No (De	epth (inches):				
Saturation F	Present?		No C De	epth (inches):				icitual auto
(includes ca	pillary fringe)	55 <u>(</u>				Wetla	and Hydrology Pr	resent? Yes 🔎 No 🤇
Describe Re	ecorded Data (stream	gauge, m	onitoring well,	aerial photos, p	previous ins	oections),	if available:	
Aerial from	n CaSIL, April 200	4						
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer/Su	tter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: N	N 126e	
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Ra	nge:Please see Locatio	on Map for all Se	c,Town,Range	
Landform (hillslope, terrace, etc.):	Local relief (concave, o	convex, none):None	Slop	be (%):2	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datu	m:WGS84	
Soil Map Unit Name: Xerofluvents		NWI classific	cation: Seasonal V	Vetland	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🙃 👘 No 🤇	(If no, explain in R	Remarks.)		
Are Vegetation Soil or Hydrology significantly	disturbed? Are "	Normal Circumstances"	present? Yes 🌘	No 🦳	
Are Vegetation Soil or Hydrology naturally pro	oblematic? (If ne	eded, 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 🌘	No (is the Sampled Area		
Wetland Hydrology Present?	Yes (No 🍘	within a Wetland?	Yes	No (
Remarks:					

	Absolute	Dominant	Indicator	Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominan	t Specie:	S		
1				That Are OBL, FAC	W, or FA	C:	2	(A)
2.				Total Number of Do	minant			
3.				Species Across All S	Strata:		2	(B)
4.				B			1990	27.03 20
	%		-93) 	- Percent of Dominan	t Species	S C' 1	100 0 %	(Δ/B)
Sapling/Shrub Stratum					., ., .,	J.]	100.0 70	(100)
1.				Prevalence Index v	vorkshee	et:		
2.				Total % Cover of	of:	Mul	tiply by:	_
3.				OBL species	55	x 1 =	55	
4.				FACW species	25	x 2 =	50	
5.	<u>.</u>		2	FAC species		x 3 =	0	
Total Cover	r: %	- <u>-</u>		FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
¹ .Lolium multiflorum	50	Yes	OBL	Column Totals:	80	(A)	105	(B)
² .Rumex crispus	20	Yes	FACW					
³ .Phalaris ssp.	5		FACW	Prevalence Ind	dex = B/a	A =	1.31	
4. Plagiobothrys stipitatus	5		OBL	Hydrophytic Veget	ation Inc	licators:		
5.		÷	22	🖌 🗙 Dominance Tes	t is >50%	6		
6.			58 ¹	Prevalence Inde	ex is ≤3.0	$)^{1}$		
7.	-0		<u>};</u>]	Morphological A	Adaptatio	ns¹ (Provi	ide support	ing
8.			90) -	- data in Rem	arks or o	n a separ	ate sheet)	22
Total Cover	. 00 0/	-	57 	Problematic Hy	drophytic	Vegetati	on' (Explair	1)
Woody Vine Stratum	00 70							
1.				¹ Indicators of hydric	soil and	wetland	hydrology	must
2.				be present.				
Total Cover	: %	1997) 1	5.4 	Hydrophytic				
% Bare Ground in Herb Stratum 20 % % Cover	r of Biotic C	Crust	%	Present?	Yes (e	No	C	
Remarks:				1.2				

Denth	scription: (Descri Matri	de to the de	pth needed to docur Redox	nent the CEestur	e indicator	or contiri	m the absence of Indic	cators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
0-5	7.5YR 3/4	100					silty loam	
5	7.5YR 3/4	95	7.5YR 5/9	5	С		silty clay loam	
			<u></u>		- 			
12							1 di	
					-0;			
<u>17</u>			o <u></u>					
		2013 - C					1.07	
¹ Type: C=	Concentration, D=D	Depletion, RM	1=Reduced Matrix.	² Locatio	on: PL=Pon	e Lining, F	RC=Root Channel, M=N	latrix.
³ Soil Textu	res: Clay, Silty Cla	y, Sandy Cla	y, Loam, Sandy Clay	Loam, S	andy Loam	, Clay Loa	am, Silty Clay Loam, Sil	t Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applic	able to all Li	RRs, unless otherwise	noted.)			Indicators for Prob	lematic Hydric Soils ⁴ :
Histos	ol (A1)		Sandy Redo	x (S5)			1 cm Muck (A9	9) (LRR C)
Histic	Epipedon (A2)		Stripped Ma	atrix (S6))		2 cm Muck (A	10) (LRR B)
Black	Histic (A3)			ky Minei	ral (F1) iv (F2)		Reduced Verti	c (F18) storiol (TE2)
Stratifi	gen Sunde (A4) ad Lavers (A5) / LP	P C)	Depleted M	eu Mau atriv (F3	IX (F∠) \		Cther (Explain	in Remarks)
	uck (A9) (LRR D)	.it 0)	Redox Dark	Surface) 9 (F6)			in Romanoy
Deplet	ed Below Dark Sur	face (A11)	X Depleted Da	ark Surfa	ace (F7)			
Thick	Dark Surface (A12)		Redox Depr	ressions	(F8)			
Sandy	Mucky Mineral (S1)	Vernal Pool	s (F9)			⁴ Indicators of hydro	phytic vegetation and
Sandy	Gleyed Matrix (S4))					wetland hydrolo	gy must be present.
Restrictive	e Layer (if present):						
Type:								
Depth (i	inches):						Hydric Soil Presen	t? Yes (No (
Remarks:]	Flood plain							
HYDROL	OGY							
Wetland H	lydrology Indicato	rs:					Secondary Inc	dicators (2 or more required)
Primary Ind	dicators (any one in	dicator is sut	ficient)				Water Ma	rks (B1) (Riverine)
Surfac	e Water (A1)		Salt Crust	(B11)			X Sediment	: Deposits (B2) (Riverine)
High V	Vater Table (A2)		🗙 Biotic Crus	st (B12)			🗙 Drift Depo	osits (B3) (Riverine)
Satura	ition (A3)		Aquatic Inv	vertebra	tes (B13)		🗙 Drainage	Patterns (B10)
Water	Marks (B1) (Nonriv	verine)	Hydrogen	Sulfide (Ddor (C1)		Dry-Seas	on Water Table (C2)
Sedim	ent Deposits (B2) (Nonriverine) 🗙 Oxidized F	Rhizosph	eres along	Living Ro	ots (C3) 🗍 Thin Muc	k Surface (C7)
Drift D	eposits (B3) (Nonri	iverine)	Presence	of Redu	ced Iron (C4	4)	Crayfish I	Burrows (C8)
X Surfac	e Soil Cracks (B6)		Recent Iro	n Reduc	tion in Plov	ved Soils ((C6) 🗌 Saturatio	n Visible on Aerial Imagery (C9)
X Inunda	ation Visible on Aeri	al Imagery (I	37) 🗍 Other (Exp	blain in F	Remarks)		Shallow A	Aquitard (D3)
Water-	-Stained Leaves (B	9)					FAC-Neu	tral Test (D5)
Field Obse	ervations:							
Surface W	ater Present?	Yes (No 🌘 🛛 Depth (in	ches):				
Water Tab	le Present?	Yes 🤇	No 🌘 🛛 Depth (inc	ches):				
Saturation	Present?	Yes (No 🕢 Depth (in	ches):				
(includes c	apillary fringe)	am douide in	opitoring wall parial:	abotas -	novious in	Wet	iand Hydrology Prese	πτ. Yes (● No (
Aerial fro	m CaSIL April 3	am gauge, m 2004	ionitoring well, aenal p	unutos, p	DIEVIOUS INS	pections)		
	in cuoit, ripin 2	2001						
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer/S	Sutter/Sacramento	Sampling Date: 5/5/()8
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: ${ m W}~1$.27e
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township, F	Range:Please see Locatio	on Map for all Sec,T	own,Range
Landform (hillslope, terrace, etc.):	Local relief (concave	e, convex, none):None	Slope (%)3
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: <u>V</u>	VGS84
Soil Map Unit Name: Xerofluvents		NWI classifie	cation: Seasonal Swa	le
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌔 🛛 No	(If no, explain in F	Remarks.)	
Are Vegetation Soil or Hydrology significantly	/ disturbed? Ar	e "Normal Circumstances"	present? Yes 🌘	No 🦳
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If	needed, explain any answe	ers in Remarks.)	
		1211 NO20 NOV NO	11 17.00 SY 17.72 Yo	5/571

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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes (No (
Remarks:						

and annual the statement of therein we	Absolute	Dominant	: Indicator	Dominance Test worksheet:					
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species					
1.				That Are OBL, FACW, or FAC:	2	(A)			
2.				Total Number of Dominant					
3.				Species Across All Strata:	2	(B)			
4.	107	360 	en l		-	100 00			
	%	ю. К	-93) 	- Percent of Dominant Species	100.0.0/	(Δ/B)			
Sapling/Shrub Stratum					100.0 %	(~)			
1.				Prevalence Index worksheet:					
2.		-		Total % Cover of:	Multiply by:	_			
3.				OBL species x 1	1 = 0				
4.	· · · · ·		<u>.</u>	FACW species 20 x 2	2 = 40				
5.				FAC species 70 x 3	3 = 210				
Total Cove	~ %	5		FACU species x 4	4 = 0				
Herb Stratum				UPL species x 5	5 = 0				
¹ .Rumex crispus	10		FACW	Column Totals: 00 (A)	250	(B)			
2. Hordeum marinum ssp. gussoneanum	30	Yes	FAC						
³ .Lolium multiflorum	40	Yes	FAC	Prevalence Index = B/A =	2.78				
4. Polypogon monspeliensis	5	in all and a second	FACW	Hydrophytic Vegetation Indicators:					
5. Juncus buffonius	5		FACW						
6.	38		38	Prevalence Index is ≤3.0 ¹					
7.			<u>};</u>]	Morphological Adaptations ¹ (Provide support	ing			
8.			90) 	data in Remarks or on a s	eparate sheet)	22			
Total Cove	. 00 v	5	57 	Problematic Hydrophytic Veg	jetation' (Explair	1)			
Woody Vine Stratum	90 %								
1.				¹ Indicators of hydric soil and wet	tland hydrology	must			
2.				be present.					
Total Cove	r: %	5		Hydrophytic					
% Bare Ground in Herb Stratum $10~\%$ % Cove	r of Biotic (Crust	%	Present? Yes (No (
Remarks:		<u>87</u>							

O-5 7.5YR 3/4 100 Chry lama 5 7.5YR 3/4 97 7.5YR 5/9 3 C M Clary pair 7 7.5YR 3/4 97 7.5YR 5/9 3 C M Clary pair 7 7.5YR 3/4 97 7.5YR 5/9 3 C M Clary pair 7 7.5YR 3/4 97 7.5YR 5/9 3 C M Clary pair 7 7.5YR 3/4 97 7.5YR 5/9 3 C M Clary pair 7 7.5YR 3/4 97 7.5YR 5/9 3 C M Clary pair 7 7.5YR 5/9 3 C M Clary pair M Strippeint pair Strippeint pair Strippeint pair M Strippeint pair Strippeint pair <th>Uepth (inches)</th> <th>Color (moist)</th> <th>%</th> <th>Color (mo</th> <th>Redox Featur</th> <th>es Tvne¹</th> <th>Loc²</th> <th>- Text</th> <th>ure³</th> <th>Remarks</th>	Uepth (inches)	Color (moist)	%	Color (mo	Redox Featur	es Tvne ¹	Loc ²	- Text	ure ³	Remarks
0:0 IDENTION Log year 5 7.5YR 3/4 97 7.5YR 5/9 3 C M Clay year 1 5 7.5YR 3/4 97 7.5YR 5/9 3 C M Clay year 1 1 5 7.5YR 3/4 97 7.5YR 5/9 3 C M Clay year 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0-5	7 5VR 3/4						Clay los	m	
S J.31K.314 97 J.31K.359 3 C M Cury part Type: C-Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pone Lining, RC=Root Channel, M=Matrix. Soll Textures: City, Sity Clay, Sandy Clay, Leam, Sandy Clay, Leam, Sandy Clay, Leam, Sity Clay, Leam, Sitt, Leamy Sand, Sand Soll Textures: City, Sity Clay, Sandy Clay, Leam, Sandy Clay, Leam, Sandy Clay, Leam, Sitty Clay, Leam, Sitty Clay, Sand, Status, Kit, Clay, Sandy Federak, Sitt, Sitt, Sitt, Clay, Sandy Federak, Sitt, Sitt, Clay, Sandy Federak, Sitt, Sitt, Sitt, Clay, Sandy Federak, Sitt, Sitt, Clay, Sandy Federak, Sitt, Sitt, Clay, Sandy Clay, Clark, Clay, Sandy Clay, Clark, Clay, Sand, Sitt, Sitt, Sitt, Clay, Sand, Sitt,	5	7.5 TR 3/4	07	7.5VD 5/0	2	C	<u>.</u> М			<u></u>
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pone Lining, RC=Root Channel, M=Matrix. Sol Textures: City, Silty Clay, Sandy Clay, Loam, Sandy Clay, Loam, Silty Clay, Sandy Clay, Loam, Silty Clay, Sandy Clay, Loam, Sandy Clay, Loam, Silty Clay, Sandy Clay, Loam, Silty Clay, Sandy Clay, Loam, Sandy Rotax, (SS) Indicators: Applicable to all LBRs, unless otherwise noted.) Histose (A1) Stippes Matrix, (SS) Indicators for Positematic Hydric Solitz: Histose (A1) Earny Mucky Mineral (P1) Reduced Vertic (F12) Black Hists (A3) Learny Mucky Mineral (P1) Reduced Vertic (F12) Statified Layers (A6) (LBR Q) Depleted Matrix (F2) Red Parent Material (F12) Depleted Below Dark Surface (A1) Depleted Dark Surface (F8) Other (Explain in Remarks) Depleted Below Dark Surface (F3) Vertial Posite (F8) *uefland Hydrology must be present. Startified Layers (If (Present): Type:Clay pig na Wertial Hydrology Indicators: No (* VPRCLOGY Vertiand Hydrology Indicators is sufficient) Stati Crust (B11) Water Marks (B1) (Riverine) Statistion (A3) Stati Crust (B11) Static Crust (B12) Draitage Partice (B12) No (* Statistion (A3) Static Crust (B12) Draitage Partice (C12) Draitage Partice (C12) No (* <	3	7.5YK 3/4	9/	/.5YK 5/9	3		<u>M</u>	$-\frac{\text{Clay part}}{-}$	1	24
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ¹ Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Soll Textures: Clay, Sitty Clay, Sandy Clay, Leam, Sandy Leam, Sandy Leam, Clay Leam, Sitty Clay Leam, Sitt, Leamy Sand, Sance Victoria Control (LRR C) Indicators: Population (AC) Implement Sitty Clay Leam, Sandy Leam, Sandy Leam, Clay Leam, Sitty Clay Leam, Sitt, Leamy Sand, Sance Victoria (SS) I on Muck (A10) (LRR C) Hatte Epipedin (A2) Stripped Matrix (SS) I on Muck (A10) (LRR C) Shardie Karka (A1) Depleted Bate Kints (F2) Red Arearn Material (T22) Shardie Leaves (A3) I carny Sitty Clay Leam, Sance (F8) Control (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F3) Other (Explain in Remarks) The Kolak Surface (A12) Redox Dark Surface (F3) Indicators of hydrophytic vegetation and welland hydrology must be present. Sandy Mucky Mineral (S1) Verall Pools (F3) Indicators (2 or more regulared) Type:Clay pan Secondary Indicators (2 or more regulared) Secondary Indicators (2 or more regulared) Water Marker (B1) (Morriverine) Hydroids Crast (B12) Drin Deposits (B2) (Neurrine) Secondary Indicators (2 or more regulared) Water Marker (A1) Satificat Marker (A1) Secondary Indicators (2 or more regulared) Secondary Indicators (2 or more regulared) <t< td=""><td></td><td></td><td></td><td>14</td><td></td><td></td><td>-21.77 - C</td><td>51 AU</td><td></td><td>17.7</td></t<>				14			-21.77 - C	51 AU		17.7
Type: C-Concentration, D-Depletion, RM=Reduced Matrix, *Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Sol Textures: Clay, Sity Clay, Sandy Clay, Loam, Sandy Clay, Loam, Sandy Clay, Loam, Sity Clay Loam, Sitty Clay, Sandy Clay, Loam, Sitty Clay, Sandy Clay, Loam, Sitty Clay, Sandy Clay, Loam, Sitty Clay, Sitty Cla		- 201		8						5
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Soll Textures: Clay, Sity Clay, Sandy Clay, Loam, Sandy Laem, Randy Laem, Clay Leam, Sity Clay Leam, Sity Leam, Sits Leamy Sand, Sandy Midroson, Kappletable to all LRRs, unless otherwise notes) Indicators for Problematic hydric Solls. Histic Epipedon (A2) Sandy Radix (SS) I orn Muck (A10) (LRR C) Black Hate (A3) Leamy Muck (Minoral (F1) Reduced Vartic (F18) Hydrogon Sulfido (A4) Leamy Muck (A10) (LRR C) Depleted Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A0) (LRR C) Depleted Dark Surface (F1) Redox Dark Surface (F2) Stratified Layers (A5) (LRR C) Depleted Dark Surface (F3) *Indicators of hydrophylic vegetation and wefard hydrology must be present. Startified Layers (A5) (LRR C) Redox Depressions (F8) *Indicators (1 hydrology must be present. Startified Layers (A11) Pepideed Dark Surface (F1) *Indicators (2 or more required) Thick Dark Surface (A11) Pepideed Dark Surface (F1) *Indicators (2 or more required) Startified Layers (B1) Water Marks (B1) Water Marks (B1) Depth (Inches): Startified Layers (B1) Startacon Mater Table (A2) Startaon Mater Table	:							2 72		
Type: C-Concentration. D-Depletion, RM-Reduced Matrix. *Locetion: PL-Pore Lining, RC-Root Channel, M-Matrix. Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Lay, Loam, Silty Clay Loam. Silty Mineral (F1) Batch Heist: Red Parent Material (TF2) Sandy Mucky Mineral (S1) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Glay Matrix (S4) Vernal Pools (F3) YIPs: Clay pan Water (H1) Depth (inches):5. Hydric Soil Present? Yes (A Matrix (S1) Salt Crust (S11) Hydric Soil Present? Yes (A No (* Yes (A Matrix (S1) Salt Crust (S11) Surface Water (A1) Salt Crust (S11) Surface Water (A3) Aquatic Invertentionate (S13) Yumay Indicators (B7) (Montriverine) <td></td>										
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Soft Textures: C[4], Silty Clay, Soldy Clay, Loam, Sandy Clay, Loam, Sinty Clay, Loam, Silty Clay, Loam, Silt, Loamy Sand, Sanc Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators (All Q) LRR D) Depleted Matrix (S5) Com Muck (All Q) LRR D) Depleted Matrix (S5) Com Muck (All Q) LRR D) Depleted Matrix (S1) Depleted Dark Surface (F7) Track Dark Surface (A12) Redox Depressions (F8) "Indicators (I purport)pricic vegetation and wetand hydrology must be present." Sandy Mucky, Mineral (S1) Sand Knucky (S4) Vernal Pools (F3) "Indicators (2 or more required) Thrack Dark Surface (A12) Sand Knucky (S1) Sand Knucky (S1) Sand Knucky (S1) Depleted Dark Surface (S1) Depleted Dark Surface (S1) Matrix (S6)<			alta - s		23			19 1.0		40.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Soll Textures: Clay, Sity Clay, Sandy Clay, Leam, Sandy Clay, Leam, Sandy Leam, Clay Leam, Sity Clay Leam, Sitt, Leamy, Sitt, Leamy, Sitt, Leamy, Sitt, Leamy, Sitt, Clay Leam, Sitt, Clay Le								5 10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Sin Textures Clay Loam, Sandy Clay Loam, Sandy Clay Loam, Sandy Clay Loam, Sity Clay Loam, Sity Clay Loam, Sitt Loam, S	¹ Type: C=C	Concentration D=De	enletion RM	/=Reduced M	atrix ² Locatio	on' PI =Por	e Lining F	RC=Root	Channel I	M=Matrix
tydric Soil Indicators: (Applicable to all LRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histic Epipedon (A2) Bandy Redox (S5) I or Muck (A9) (LRR C) Black Histic (A3) Loarry Mucky Mineral (F1) Reduce (A9) (LRR C) Black Histic (A3) Loarry Kleyek Matrix (F2) Red Parent Matrix (F1) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 orn Muck (A9) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks) 1 orn Muck (A9) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks) 1 orn Muck (A9) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks) 1 orn Muck (A9) (LRR C) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Mucky Mineral (S1) Redox Depressions (F8) Indicators (A12) No (Sandy Mucky Mineral (S1) Redox Depressions (F8) Hydric Soil Present? Yes (No (Startace VHART (A1) Salt Crust (B11) Depted Matrix (S1) Depted Matrix (S1) Depted Matrix (S1) Startace VHART (A1) Salt Crust (B11) Depted Matrix (S1) Depted Matrix (S1) Depted Matrix (S1) Depted Matrix (S1) (Norenixerine) <td< td=""><td>³Soil Textur</td><td>es: Clay, Silty Clay</td><td>, Sandy Cla</td><td>ay, Loam, San</td><td>dy Clay Loam, S</td><td>Sandy Loan</td><td>n, Clay Lo</td><td>am, Silty</td><td>Clay Loam</td><td>n, Silt Loam, Silt, Loamy Sand, Sand</td></td<>	³ Soil Textur	es: Clay, Silty Clay	, Sandy Cla	ay, Loam, San	dy Clay Loam, S	Sandy Loan	n, Clay Lo	am, Silty	Clay Loam	n, Silt Loam, Silt, Loamy Sand, Sand
Histic Spipedon (A2)	Hydric Soil	Indicators: (Applica	able to all L	Rs, unless ot	herwise noted.)			India	ators for F	Problematic Hydric Soils ⁴ :
Histic Epipedon (A2) Stipped Matrix (S6) C mulker (A10) (LRR B) Black Histic (A3) Loamy Mukey Mineral (F1) Reduced Vertic (F16) Black Histic (A3) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 1 cm Muck (A10) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A6) (LRR C) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A11) Depleted Dark Surface (F7) Mindicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Mucky Mineral (S1) Kedox Depressions (F8) *Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Gleyed Matrix (S4) Vernal Pools (F9) *Indicators (C or more required) Type:Clay pan Depth (Inches):5 No (Sandra Hydrology Indicators: Secondary Indicators (2 or more required) Ymary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Dry Season Water Table (C2) Saturation (A3) Aquatic Invertebrates (B13) Dry Season Water Table (C2) Saturation Prosent? Yes (No (Depth (Histoso	ol (A1)		San	dy Redox (S5)				1 cm Mucł	< (A9) (LRR C)
Black Histic (A3) Loamy Mudky Mineral (F1) Red Parent Material (F2) Hydrogen Sulfide (A4) Loamy Gleged Matrix (F2) Red Parent Material (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Mudk (A9) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Mudk (A9) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks) Sandy Gleged Matrix (S4) Vernal Pools (F9) *Indicators of hydrophytic vegetation and wetland hydrology must be present. Startified Layers (IP present): Type:Clay pan Depted Indicators (F3) Hydric Soil Present? Yes (* No (* Remarks: YDROLOGY Vettand Hydrology Indicators: Secondary Indicators (2 or more required) Matrix (B1) (Riverine) Suface Water (A1) Salt Crust (B11) Sadiment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Ydrogen Sulfide Odor (C1) Drift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) <td< td=""><td>Histic E</td><td>Epipedon (A2)</td><td></td><td>Strip</td><td>oped Matrix (S6</td><td>)</td><td></td><td></td><td>2 cm Mucł</td><td>< (A10) (LRR B)</td></td<>	Histic E	Epipedon (A2)		Strip	oped Matrix (S6)			2 cm Mucł	< (A10) (LRR B)
Hydrogen Suffide (A4) Damy Gleyed Matrix (F2) Get Parent Material (TF2) Stratified Layers (A5) (LRR D) Depleted Matrix (F2) Cher (Explain in Remarks) Depleted Balow Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) *Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Gleyed Matrix (S4) Vernal Pools (F9) *Indicators of hydrophytic vegetation and wetland hydrology must be present. testrictive Layer (if present): Type-Clay pain Hydric Soil Present? Yes (R No (C) Type-Clay pain Depth (inches):5 Hydric Soil Present? Yes (R No (C) Wetland Hydrology Indicators is sufficient) Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Orth Deposits (B3) (Riverine) Suffice (A2) Biolic Crust (B12) Orth Deposits (B3) (Riverine) Suffice (A2) Vertage Paterns (B10) Dry Season Water Table (C2) Y Sediment Deposits (B2) (Nonriverine) Xidized Rhizcospheres along Living Roots (C3) Thin Muck Suffa	Black H	listic (A3)		Loa	my Mucky Mine	ral (F1)			Reduced \	/ertic (F18)
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Sandy Gleyed Matrix (S4) wetland hydrology must be present. Type:Clay pan	Sandy	Mucky Mineral (S1)		Veri	nal Pools (F9)	()		⁴ Indi	cators of h	ydrophytic vegetation and
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Index match with Certy (contributions) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Cher (Explain in Remarks) Surface Water Present? Yes (No () Depth (inches): Saturation Present? Yes (No () Depth (inches): Wetland Hydrology Present? Yes () No () Depth (inches): Wetland Hydrology Present? Yes () No () Depth (inches): Wetland Hydrology Present? Yes () No () Depth (inches): Wetland Hydrology Present? Yes () No () Depth (inches): Wetland Hydrology Present? Yes () No () Depth (inches): Wetland Hydrology Present? Yes () No () Depth (inches): Saturation Present? Yes () No () Depth (inches): Wetland Hydrology Present? Yes () No () Depth (inches): Saturation Present? Yes () No () D	Water	Marks (B1) (Nonrive	erine)		drogen Sulfide (Odor(C1)			Drv-S	Season Water Table (C2)
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Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Includes capillary fringe) Ves C No Depth (inches): Vescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Verial from CaSIL, April 2004 Remarks:	Inundat	tion Visible on Aeria	il Imagery (B7) 🗍 Otl	ner (Explain in F	Remarks)			Shall	ow Aquitard (D3)
Field Observations: Surface Water Present? Yes (No (Depth (inches): Vater Table Present? Yes (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (No (Depth (inches): Saturation Present? Yes (No (Depth (inches): </td <td>Water-</td> <td>Stained Leaves (B9)</td> <td>)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>FAC-</td> <td>Neutral Test (D5)</td>	Water-	Stained Leaves (B9))						FAC-	Neutral Test (D5)
Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Aerial from CaSIL, April 2004 Remarks:	Field Obse	rvations:								- 15 - 15
Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No No Verial from CaSIL, April 2004 Kemarks: No No	Surface Wa	iter Present?	Yes (No 🌘 D	epth (inches):					
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No No Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Aerial from CaSIL, April 2004 Remarks:	Water Table	e Present?	Yes (No 🌘 D	epth (inches):					
Wetland Hydrology Present? Yes (No (Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Acrial from CaSIL, April 2004 Remarks:	Saturation F	Present?	Yes C	No 💽 D	epth (inches):					
Jescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Aerial from CaSIL, April 2004 Remarks:	(includes ca	apillary fringe)	1/20/50/2011	inneasa.	5 X 20		Wet	tland Hyd	Irology Pr	resent? Yes (● No (
Remarks:	Describe Re	ecorded Data (strea	m gauge, n ∩∩⊿	nonitoring well	, aerial photos, j	orevious ins	spections)), if availa	ble:	
Remarks:		n Casil, April 20	004							
	Remarks:									
Project/Site: PG&E Line 407(East)	City/County:Placer/Sutter/	Sacramento	Sampling Date: 5/5/08							
------------------------------------------------------------------------------	------------------------------	-----------------------	-----------------------	------------------	--					
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Poir	t: W 128-129e						
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Range:]	Please see Location	n Map for all	Sec, Town, Range						
Landform (hillslope, terrace, etc.):	Local relief (concave, conve	ex, none):None	5	Slope (%):1						
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N Lor	ng: 121 30'05.56" N	N Da	atum: WGS84						
Soil Map Unit Name: Xerofluvents		NWI classific	ation: Seasona	l Wetland						
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🍙 🛛 No 🦳	(If no, explain in R	emarks.)							
Are Vegetation Soil or Hydrology significantly	disturbed? Are "Norm	nal Circumstances" p	resent? Yes (No (
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If needed	l, explain any answei	rs in Remarks.)							
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If needec	l, explain any answei	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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes	No (
Remarks:						

and databal to databal in Zanton ya	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	3	(A)
2			-	Total Number of Dominant		
3.				Species Across All Strata:	3	(B)
4.	30	The l		Bereast of Dominant Species	10%	10-107 - 804
	%		5	That Are OBL. FACW, or FAC:	100.0%	(A/B)
Sapling/Shrub Stratum					100.0 /0	(***)
1.				Prevalence Index worksheet:		
2.				Total % Cover of:	Multiply by:	
3.	-0			OBL species	x 1 = 0	
4.	8			FACW species 35	x 2 = 70	
5.			<u>22</u>	FAC species 55	x 3 = 165	
Total Cover	: %			FACU species	x 4 = 0	
Herb Stratum				UPL species	x5= 0	
¹ .Rumex crispus	20	Yes	FACW	Column Totals: 90	(A) 235	(B)
2. Hordeum marinum ssp. gussoneanum	25	Yes	FAC	20	. ,	
^{3.} Lolium multiflorum	30	Yes	FAC	Prevalence Index = B/A	= 2.61	Ĺ
4. Polypogon monspeliensis	5		FACW	Hydrophytic Vegetation India	cators:	
5. Juncus ssp.	10	40	FACW	Dominance Test is >50%		
6.	S		ă.	Prevalence Index is ≤3.0 ¹		
7.			·	Morphological Adaptations	s ¹ (Provide suppor	ting
8.				data in Remarks or on	a separate sheet)	
Total Cover	. 00 %		3	Problematic Hydrophytic V	'egetation ¹ (Explai	in)
Woody Vine Stratum	. 90 %					
1.				¹ Indicators of hydric soil and v	vetland hydrology	must
2.	· · · · · · · · · · · · · · · · · · ·	···		be present.		
Total Cover	: %	2 2 2	2	Hydrophytic		
% Bare Ground in Herb Stratum $10~\%$ % Cover	r of Biotic (Crust	%	Vegetation Present? Yes (No (
Remarks:		22		24- 24-		

Depth (inchos)	Matrix Color (moist)	0/	Color (mai	Redox Feature	Tupo1	1 002	Texture ³	Remorko
	7.5XD 2/4			St) 70	Type	LUC		Remarks
0-5	<u>7.5YR 3/4</u>	100			~		Clay loam	
5	_ <u>7.5YR 3/4</u>	97	<u>7.5YR 5/9</u>	3	<u>C</u>	<u>M</u>	Clay pan	
					0			
72					3			
63		-540			8			
20	12		33	1995			τ	3.6
20				22	2		a.	8
¹ Type: C=0	Concentration, D=Dep	oletion, RM	//=Reduced Ma	trix. ² Locatio	n: PL=Por	e Lining, R	C=Root Channel,	M=Matrix.
³ Soil Textur	res: Clay, Silty Clay,	Sandy Cla	ıy, Loam, Sand	y Clay Loam, S	andy Loan	n, Clay Loa	am, Silty Clay Loar	n, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicat	ole to all Li	Rs, unless oth	erwise noted.)			Indicators for	Problematic Hydric Soils:
Histoso	ol (A1)		Sand	y Redox (S5)			1 cm Muc	k (A9) (LRR C)
HISTIC E	=pipedon (A2) Histic (A3)		Strip	ped Matrix (S6) av Mucky Miner	al (E1)		2 cm Muc	ж (А10) (LRR B) Vertic (E18)
	uen Sulfide (A4)			ny Gleved Matri	x (F2)		Red Pare	nt Material (TF2)
Stratifie	ed Layers (A5) (LRR	C)	Depl	eted Matrix (F3)	}		Other (Ex	plain in Remarks)
1 cm M	/luck (A9) (LRR D)		Reda	ox Dark Surface	(F6)			
Deplet	ed Below Dark Surfac	ce (A11)	Depl	eted Dark Surfa	ice (F7)			
	Dark Surface (A12)		X Redo	Depressions	(F8)		⁴ Indicators of	hydrophytic ycartoticn and
Sandy	Gleved Matrix (S4)		vern	ai FUUIS (F9)			wetland hv	drology must be present.
Restrictive	Layer (if present):							
Type:Cl	ay pan							
Depth (ii	nches):5						Hydric Soil Pr	esent? Yes 间 🛛 No 🤇
Remarks:							13	
Wotland H	vdrology Indicators	• 11					Sacanda	ny Indicators (2 or more required)
Primany Ind	licators (any one indic	• • atoris su	fficient)				Seconda	er Marks (B1) (Riverine)
	e Water (A1)	54101 13 34		t Crust (B11)			Nut	ment Denosits (B2) (Riverine)
	/ater Table (A2)			tic Crust (B12)				Denosits (B3) (Riverine)
Satura	tion (A3)		Aqu	uatic Invertebrat	es (B13)		🗙 Drai	nage Patterns (B10)
Water	Marks (B1) (Nonrive	rine)	Hyc	drogen Sulfide (Odor (C1)		Dry-	Season Water Table (C2)
X Sedime	ent Deposits (B2) (No	onriverine) 🗙 Oxi	dized Rhizosph	eres along	Living Ro	ots (C3) 🗍 Thin	Muck Surface (C7)
X Drift De	eposits (B3) (Nonrive	erine)	Pre	sence of Reduc	ed Iron (C	4)	Cray	/fish Burrows (C8)
Surface	e Soil Cracks (B6)		Rec	cent Iron Reduc	tion in Plov	ved Soils (C6) 🗌 Satu	ration Visible on Aerial Imagery (C9)
lnunda	tion Visible on Aerial	Imagery (I	B7) 🗌 Oth	er (Explain in R	emarks)		Shal	low Aquitard (D3)
Water-	Stained Leaves (B9)						FAC	-Neutral Test (D5)
Field Obse	ervations:							
Surface Wa	ater Present? Y	res (No (e` De	epth (inches):				
Water Tabl	e Present? Y	res (No (e De	pth (inches):				
Saturation I	Present? γ anillary fringe)	res (No 💽 🛛 De	epth (inches):		Wet	land Hydrology P	resent? Yes 🛈 No 🤇
Describe R	ecorded Data (stream	n gauge, n	nonitoring well,	aerial photos, p	revious ins	spections),	if available:	oograafiin naafiin yaan oo aanaa kuuta ka kuuta ka ku
Aerial from	m CaSIL, April 200	04						
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer/	/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 130e		
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township,	Range: Please see Locatio	n Map for all Sec, Town, Range		
Landform (hillslope, terrace, etc.):	Local relief (concav	/e, convex, none):None	Slope (%):1		
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84		
Soil Map Unit Name: Xerofluvents		NWI classific	cation: Vernal Pool		
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌔 🛛 N	o 🦳 🦳 (If no, explain in R	lemarks.)		
Are Vegetation Soil or Hydrology significantly	/ disturbed? A	re "Normal Circumstances"	present? Yes 🌘 No 🤇		
Are Vegetation Soil or Hydrology naturally pr	oblematic? (l	f needed, explain any answe	rs in Remarks.)		

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, importan	t 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 (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species		
				That Are OBL, FACW, or FAC	: 4	(A)
2.				Total Number of Dominant		
3.			<u>19</u>	Species Across All Strata:	4	(B)
4		10.1	and and			<i>C</i> 7
<u> </u>				 Percent of Dominant Species That Are OBL FACING on FAC 	100.0	(4 (5))
Sapling/Shrub Stratum	70			That Are OBL, FACW, of FAC	100.0 %	(A/B)
1.				Prevalence Index worksheet	t:	
2.	<u></u>			Total % Cover of:	Multiply by:	
3.	3 <u> </u>			OBL species 75	x 1 = 75	
4.				FACW species 20	x 2 = 40	
5.	29 <u> </u>			FAC species	x 3 = 0	
Total Cover	: %			FACU species	x 4 = 0	
Herb Stratum				UPL species 5	x 5 = 25	
¹ . Eleocharis macrostachya	20	Yes	OBL	Column Totals: 100	(A) 14() (B)
2. Eryngium castrense	5		OBL	200		
^{3.} Ranunculus sp.	5	-	UPL	Prevalence Index = B/A	= 1.40	0
4. Plagiobothrys stipitatus	25	Yes	OBL	Hydrophytic Vegetation Indi	cators:	
5. Deschampsia danthonioides	20	Yes	FACW	Dominance Test is >50%		
6. Lasthinia fremontii	25	Yes	OBL	Prevalence Index is ≤3.0 ¹		
7.		~		Morphological Adaptation	s1 (Provide suppor	rting
8.			5	- data in Remarks or on	a separate sheet)	2 A
Total Cover	100%			Problematic Hydrophytic	√egetation' (Expla	in)
Woody Vine Stratum	100 %					
1.				¹ Indicators of hydric soil and	wetland hydrology	/ must
2.	°"		10°.	be present.		
Total Cover	: %			Hydrophytic		
% Bare Ground in Herb Stratum % % Cover	of Biotic C	Crust	%	Vegetation Present? Yes (●	No (
Remarks:		22		24 24		

Profile Des	cription: (Describe to	o the dep	oth needed to docur	nent the	indicator	or confirr	m the absence of inc	licators.)
Depth	Matrix	0/	Redox	K Feature	es Trant	1 - 2	T 1 1 3	Describer
(inches)	Color (moist)	%	Color (moist)	%	Type '	Loc ²	l exture -	Remarks
0-8	7.5YR 3/2	85	7.5YR 5/8	15	<u>C</u>	M	Clay loam	
63								
£2	19 7 57			90 .	10		1. dit	
	·						·	
<u></u>	·							
	2 0 0							
								3
¹ Type: C=C	concentration, D=Deple	etion, RM	=Reduced Matrix.	² Locatio	on: PL=Por	ə Lining, R	RC=Root Channel, M=	Matrix.
³ Soil Texture	es: Clay, Silty Clay, Sa	andy Clay	v, Loam, Sandy Clay	Loam, S	andy Loam	n, Clay Loa	am, Silty Clay Loam, S	Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil I	ndicators: (Applicable	e to all LR	Rs, unless otherwise	noted.)			Indicators for Pro	blematic Hydric Soils [‡]
Histoso	l (A1)		Sandy Redo	x (S5)			1 cm Muck (A9) (LRR C)
	pipedon (A2) listic (A2)		Stripped Ma	itrix (S6)	el (E1)		2 cm Muck (A10) (LRR B)
	en Sulfide (A4)			ky Miner od Matri	ai (F1) iv (F2)			Material (TE2)
Stratifie	d Lavers (A5) / I RR C `)	Depleted M	atrix (F3)		Other (Expla	in in Remarks)
	uck (A9) (LRR D))	Redox Dark	Surface	, e (F6)			in in contanto)
Deplete	d Below Dark Surface	(A11)	Depleted Da	ark Surfa	ace (F7)			
Thick D	ark Surface (A12)		Redox Depr	ressions	(F8)			
Sandy I	Mucky Mineral (S1)		🗙 Vernal Pool	s (F9)			⁴ Indicators of hyd	Irophytic vegetation and
Sandy (Gleyed Matrix (S4)						wetland hydro	logy must be present.
Restrictive	Layer (if present):							
Type:								
Depth (ir	iches):						Hydric Soil Prese	ent? Yes 🕡 No 🤇
Remarks:							121	
HYDROLC	GY							
Wetland Hy	drology Indicators:						Secondary I	ndicators (2 or more required)
Primary Indi	cators (any one indica	tor is suff	icient)				Water N	/larks (B1) (Riverine)
Surface	Water (A1)		Salt Crust	(B11)			Sedime	nt Deposits (B2) (Riverine)
🔄 High W	ater Table (A2)		Biotic Crus	st (B12)			Drift De	posits (B3) (Riverine)
Saturati	ion (A3)		Aquatic Inv	/ertebrat	tes (B13)		Drainag	je Patterns (B10)
Water M	/larks (B1) (Nonriveri r	ne)	Hydrogen	Sulfide (Ddor (C1)		Dry-Sea	ason Water Table (C2)
X Sedime	nt Deposits (B2) (Non	riverine)	X Oxidized F	Rhizosph	ieres along	Living Ro	ots (C3) 📃 Thin Mu	uck Surface (C7)
X Drift De	posits (B3) (Nonriveri	ine)	Presence	of Reduc	ced Iron (C	4)	Crayfisł	n Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduc	tion in Plov	ved Soils ((C6) Saturati	ion Visible on Aerial Imagery (C9)
lnundat	ion Visible on Aerial In	nagery (B	7) Other (Exp	olain in R	Remarks)		Shallow	/ Aquitard (D3)
Water-S	Stained Leaves (B9)						FAC-Ne	eutral Test (D5)
Field Obser	rvations:							
Surface Wa	ter Present? Ye	is (No 🌘 🔹 Depth (in	ches):				
Water Table	Present? Ye	is C	No 🌘 🛛 Depth (in	ches):				
Saturation P	Present? Ye	is C	No 🕢 Depth (in	ches):				
(includes ca	pillary fringe)					Wet	land Hydrology Pres	sent? Yes (• No (
Describe Re	ecorded Data (stream g n CaSII - April 2007	gauge, mo 1	onitoring well, aerial p	onotos, p	previous ins	spections),	, it available:	
	n Casil, April 200-	т						
Remarks:								

Project/Site: PG&E Line 407(East)			City/County:Plac	er/Sutter/Sacra	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and El	ectric			Sta	te:CA	Sampling P	Point: W 131,133-13
Investigator(s):Erin Hess (USACE),	, E. Alfieri		Section, Townsh	all Sec, Town, Range			
Landform (hillslope, terrace, etc.):			Local relief (con	Slope (%):1			
Subregion (LRR):C - Mediterranean	California	Lat: 38	45'03.51"N	Long: 12	21 30'05.56"	W	Datum: WGS84
Soil Map Unit Name: Xerofluvents					NWI classific	ation: Sease	onal Wetland
Are climatic / hydrologic conditions on	the site typical fo	or this time of ye	ear? Yes 🕞	No 🤇 (If r	no, explain in F	lemarks.)	
Are Vegetation Soil or I	Hydrology	significantly	disturbed?	Are "Normal Cir	rcumstances"	present? Ye	es í 🔹 No 🤇
Are Vegetation Soil or I	Hydrology	naturally pro	oblematic?	(If needed, expl	lain any answe	rs in Remarl	ks.)
SUMMARY OF FINDINGS - A	ttach site m	ap showing	sampling po	int locations	, transects	, importaı	nt features, etc.
Hydrophytic Vegetation Present?	Yes (No 🦳					
Hydric Soil Present?	Yes 🌘	No (Is the Sa	mpled Area			
Wetland Hydrology Present?	Yes (No 🍘	within a \	Netland?	Yes 🌘	No (ć.
Remarks: The wetland features V	VF 131, 133, a	nd 134 located	d within the roa	dside ditch all	had the same	characteri	stics and similar

vegetation composition, hence they are all addressed in one data form.

wer somet so ablest of August as	Absolute	Dominant	Indicator	Dominance Test	workshee	et:			
<u>Tree Stratum</u> (Use scientific names.) 1	% Cover	Species?	Status	Number of Domina	ant Specie CW_ or EA	is iC:	3	(A)	
2	3		<u></u>				5	¥ 9	
2	e :			Total Number of D	ominant		2	(D)	
3				Species Across Al	li Strata:		3	(B)	
4			e	- Percent of Domina	ant Specie	S			
Sapling/Shrub Stratum	%			That Are OBL, FACW, or FAC: 100.0 %			.00.0 %	(A/B)	
1.				Prevalence Index worksheet:					
2.				Total % Cove	r of:	Mult	Multiply by:		
3.				OBL species	30	x 1 =	30		
4.	ê			FACW species	17	x 2 =	34		
5.	8 <u> </u>		22	FAC species	30	x 3 =	90		
Total Cover	. %	- <u> </u>		FACU species		x 4 =	0		
Herb Stratum				UPL species		x 5 =	0		
^{1.} Glyceria declinata	30	Yes	OBL	Column Totals:	77	(A)	154	(B)	
2. Juncus ssp.	15		FACW		11				
^{3.} Lolium multiflorum	30	Yes	FAC	Prevalence I	ndex = B/	/A =	2.00		
4. Rumex crispus	2	Yes	FACW	Hydrophytic Veg	etation In	dicators:			
5.	*			X Dominance T	est is >50°	%			
6.				Prevalence In	idex is ≤3.	0 ¹			
7.	-0			Morphologica	I Adaptatio	ons ¹ (Provi	de support	ng	
8.	8		53 		marks or u	n a separa	ate sneet) w ¹ (Exertain	3	
Total Cover	77 %				iyaropnyu	c vegetatio	on (Explair	1}	
Woody Vine Stratum				1	e a				
1	25	<u>.</u>	27	Indicators of hyd	ric soil an	d wetland	hydrology	must	
2									
Total Cover	: %			Hydrophytic					
% Bare Ground in Herb Stratum 23 % % Cover	r of Biotic (Crust	%	Present?	Yes (No	C		
Remarks: Algal matting was present within the feat	ures.			- <u>5.</u>					

(inches)	watrix		Re	dox Feature	es			
0.7	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
0-5	7.5YR 3/4	100					Clay loam	
5	7.5YR 3/4	95	7.5YR 5/9	5	C		Clay pan	
						<u></u>		
<i>1</i> 7		- 5/7	to				het to be	
	-04				°			
<u></u>	-734				·······	<u></u>	n <u> </u>	
	227							
¹ Type: C=C	Concentration, D=De	epletion, RN	I=Reduced Matrix	² Locatio	n: PL=Pore	Lining, R	C=Root Channel, M	1=Matrix.
³ Soil Textur	es: Clay, Silty Clay,	, Sandy Cla	y, Loam, Sandy C	lay Loam, S	andy Loam	, Clay Loa	m, Silty Clay Loam,	, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applica	ble to all L	Rs, unless otherv	/ise noted.)			Indicators for P	roblematic Hydric Soils:
HISTOSC)I (A1) Eninedon (A2)		Sandy R	edox (S5) Matrix (S6)				(A9) (LRR C) (A10) (LPB P)
Black F	Histic (A3)			Aucky Miner	al (F1)		Reduced V	ertic (F18)
Hydrog	jen Sulfide (A4)		Loamy (Sleyed Matr	x (F2)		Red Parent	t Material (TF2)
Stratifie	ed Layers (A5) (LRR	t C)	Deplete	d Matrix (F3)		Other (Expl	ain in Remarks)
1 cm M	1uck (A9) (LRR D)		Redox D	ark Surface	(F6)			
	ed Below Dark Surfa	ice (A11)	Deplete	d Dark Surfa	ice (F7)			
Sandy	Mucky Mineral (S1)		Vernal F	epressions 200ls (F9)	(F8)		⁴ Indicators of h	drophytic vegetation and
Sandy	Gleyed Matrix (S4)			0010 (1 0)			wetland hydi	rology must be present.
Restrictive	Layer (if present):							unterna el
Type: C	lay pan							
Depth (ir	nches): 5						Hydric Soil Pres	sent? Yes 🕢 No 🤇
Remarks:								
	DGY							
HYDROL(
Wetland Hy	vdrology Indicators	e.					Secondary	(Indicators (2 or more required)
Wetland Hy Primary Ind	ydrology Indicators	s: icator is sut	ficient)				Secondary	/ Indicators (2 or more required) Marks (B1) (Riverine)
Wetland Hy Primary Ind	ydrology Indicators licators (any one ind	s: icator is sut	ficient)	ust (B11)			Secondary	/ Indicators (2 or more required) Marks (B1) (Riverine)
Wetland Hy Primary Ind	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2)	s: icator is sut	ficient) Salt Cr	ust (B11) Crust (B12)			Secondary	r Indicators (2 or more required) Marks (B1) (Riverine) tent Deposits (B2) (Riverine) deposits (B3) (Riverine)
Wetland Hy Primary Ind Surface High W	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2) tion (A3)	s: icator is sut	ficient) Salt Cr X Biotic (Aquati	ust (B11) Crust (B12) c Invertebra	es (B13)		Secondary Secondary Water Sedim Drift D Traina	/ Indicators (2 or more required) Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)
HYDROL(Wetland H; Primary Ind Surface High W Saturat Water I	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2) lion (A3) Marks (B1) (Nonrive	s: icator is suf erine)	ficient) Salt Cr X Biotic (Aquations) Hydrog	ust (B11) Crust (B12) : Invertebra jen Sulfide (es (B13) Ddor (C1)		Secondary Secondary Water Sedim Drift D Traina	v Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2)
Wetland Hy Primary Ind Surface High W Saturat Water I X Sedime	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N	s: icator is suf erine) onriverine	ficient) Salt Cr X Biotic (Aquations) Hydrog X Oxidize	ust (B11) Crust (B12) c Invertebra en Sulfide (ad Rhizosph	es (B13) Ddor (C1) eres along	Living Roc	Secondary Water Sedim Sedim Drift D Trint Dry-Se Sedim Dry-Se Sedim Thin M	Marks (B1) (Riverine) Marks (B1) (Riverine) Ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift Dec	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv	s: icator is suf erine) onriverine erine)	ficient) Salt Cr X Biotic (Aquation Hydrog X Oxidize Preser	ust (B11) Crust (B12) c Invertebra en Sulfide (ad Rhizosph ce of Reduc	es (B13) Ddor (C1) eres along æd Iron (C4	Living Roo	Secondary Water Sedim Drift D X Draina Dry-Si Dts (C3) Thin N	v Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) sh Burrows (C8)
HYDROL(Wetland Hy Primary Ind Surface High W Saturat Water I X Sedime Drift De Surface	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6)	s: icator is suf erine) onriverine) verine)	ficient) Salt Cr X Biotic (Aquation Hydrog X Oxidize Preser Recent	ust (B11) Crust (B12) Chvertebra Ien Sulfide (ad Rhizosph ce of Reduc	es (B13) Ddor (C1) eres along ced Iron (C4 tion in Plow	Living Roo) ed Soils (Secondary Water Water Sedim Drift D X Draina Dry-Sa Ots (C3) C6) Secondary	<u>Indicators (2 or more required)</u> Marks (B1) (Riverine) Tent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9)
Wetland H: Primary Ind Surface High W Saturat Water I X Sedime Drift De Surface Inundat	ydrology Indicators iicators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria	s: erine) onriverine) rerine) I Imagery (I	ficient) Salt Cr Salt Cr Aquation Aquation Hydrog Oxidize Preser Recent 37) Other (ust (B11) Crust (B12) c Invertebra en Sulfide (ad Rhizosph ce of Reduc i Iron Reduc Explain in F	es (B13) Ddor (C1) eres along ced Iron (C4 tion in Plow lemarks)	Living Roo) ed Soils (Secondary Water Sedim Sedim Drift D Trint Dry-Se Ots (C3) C6) Satura Shallo	r Indicators (2 or more required) Marks (B1) (Riverine) eent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3)
HYDROL(Wetland H; Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-S	ydrology Indicators icators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9)	s: erine) onriverine) rerine) I Imagery (I	ficient) Salt Cr Biotic (Aquation Hydrogo X Oxidize Preser Recent 37) Other (ust (B11) Crust (B12) c Invertebra gen Sulfide (ad Rhizosph ce of Reduc i Iron Reduc Explain in F	es (B13) Ddor (C1) eres along æd Iron (C4 tion in Plow lemarks)	Living Roo) ed Soils (Secondary Water Water Sedim Drift D X Draina Dry-S ots (C3) C6) Satura FAC-N	r Indicators (2 or more required) Marks (B1) (Riverine) tent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) Neutral Test (D5)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Inundat Water -S Field Obse	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations:	s: erine) onriverine) rerine) I Imagery (I	ficient) Salt Cr Salt Cr Aquation Aqua	ust (B11) Crust (B12) Invertebra Ien Sulfide (ed Rhizosph ce of Reduc Iron Reduc Explain in F	es (B13) Ddor (C1) eres along ced Iron (C4 tion in Plow temarks)	Living Roo) ed Soils (Secondary Water Sedim Drift D Traina Dry-Si Ots (C3) Thin M Crayfi C6) Satura FAC-N	r Indicators (2 or more required) Marks (B1) (Riverine) Tent Deposits (B2) (Riverine) Deposits (B3) (Riverine) Age Patterns (B10) Leason Water Table (C2) Muck Surface (C7) Sh Burrows (C8) Ation Visible on Aerial Imagery (C9) W Aquitard (D3) Neutral Test (D5)
Wetland Hy Primary Ind Surface High W Saturat Water I X Sedime Drift De Inundat Water-S Field Obse Surface Water	ydrology Indicators iicators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ater Present?	s: icator is suf erine) onriverine) I Imagery (I) Yes (ficient) Salt Cr Salt Cr Aquation Aquation Hydrog No (Depth	ust (B11) Crust (B12) c Invertebra en Sulfide (ed Rhizosph ce of Reduc i Iron Reduc Explain in F (inches):	es (B13) Ddor (C1) eres along ced Iron (C4 tion in Plow temarks)	Living Roo) red Soils (Secondary Water Water Sedim Drift D Traina Dry-Se Ots (C3) C6) Satura Shallo FAC-N	r Indicators (2 or more required) Marks (B1) (Riverine) eent Deposits (B2) (Riverine) eeposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Auck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) Neutral Test (D5)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Inundat Water-S Field Obse Surface Wa Water Table	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ater Present? e Present?	s: icator is suf erine) onriverine) I Imagery (I) Yes (Yes (ficient) Salt Cr Salt Cr Aquation Aquation Hydrog No (Preser Recent 37) Other (Depth No (Depth	ust (B11) Crust (B12) c Invertebra en Sulfide (ad Rhizosph ce of Reduc Iron Reduc Explain in F (inches): (inches):	es (B13) Ddor (C1) eres along ced Iron (C4 tion in Plow lemarks)	Living Roo) ed Soils (Secondary Water Sedim Sedim Drift D X Draina Dry-S ots (C3) C6) Satura Shallo FAC-N	r Indicators (2 or more required) Marks (B1) (Riverine) tent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) Neutral Test (D5)
HYDROLC Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes co	ydrology Indicators licators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ater Present? e Present? Present?	s: erine) onriverine) rerine) I Imagery (I Yes (` Yes (` Yes (`	ficient) Salt Cr X Biotic (Aquation Hydrog X Oxidize Preser Recent 37) Other (No (Depth No (Depth No (Depth	ust (B11) Crust (B12) c Invertebra en Sulfide (ad Rhizosph ce of Reduc : Iron Reduc Explain in F (inches): (inches): (inches):	es (B13) Odor (C1) eres along æd Iron (C4 tion in Plow emarks)	Living Roo) ed Soils (Secondary Water Water Sedim Drift D Traina Dry-Si Ots (C3) Thin N Crayfi C6) Shallo FAC-N	Arks (B1) (Riverine) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) Neutral Test (D5) esent? Yes (No (
HYDROLC Wetland Hy Primary Ind Surface High W Saturat Water I X Sedime Surface Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicators icators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ater Present? Present? Present? apillary fringe) ecorded Data (stream	s: icator is suf erine) onriverine) I Imagery (I Yes (Yes (Yes (Yes (Yes (Yes (Yes (ficient) Salt Cr Salt Cr Salt Cr Aquation Aquation Hydrog No No Conternation No Con	ust (B11) Crust (B12) : Invertebra en Sulfide (ed Rhizosph ce of Reduc : Iron Reduc Explain in F (inches): (inches): (inches):	es (B13) Ddor (C1) eres along ced Iron (C4 tion in Plow temarks)	Living Roo) ed Soils (wetl pections),	Secondary Water Water Sedim Drift D Traina Dry-Sa Ots (C3) Thin M Crayfi C6) Satura Shallo FAC-M and Hydrology Pra if available:	Arks (B1) (Riverine) Marks (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) (Riverine) Deposits (B3) (Riverine) Deposits (B3) (Riverine) Deposits (B10) Deposits (B10) D
HYDROLC Wetland Hy Primary Ind Surface High W Satural Water I X Sedime Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re Aerial from	ydrology Indicators iicators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ater Present? e Present? e Present? Present? apillary fringe) ecorded Data (stream m CaSIL, April 20	s: icator is suf erine) onriverine) rerine) I Imagery (I Yes (Yes (Yes (Yes (Yes (Yes (Yes (Yes () Yes () Yes ()	ficient) Salt Cr Biotic (Aquation Hydrog Y Oxidize Preser Recent 37) Other (No (Depth No (Depth nonitoring well, aer	ust (B11) Crust (B12) c Invertebrar en Sulfide (ad Rhizosph ce of Reduc Iron Reduc Explain in F (inches): (inches): (inches): (inches):	es (B13) Odor (C1) eres along ced Iron (C4 tion in Plow emarks)	Living Roo) ed Soils (wetl pections),	Secondary Water Water Sedim Drift D Trin M Dry-Se ots (C3) Thin M Crayfi C6) Satura Shallo FAC-N and Hydrology Pre if available:	Arks (B1) (Riverine) Marks (B1) (Riverine) Peposits (B2) (Riverine) Peposits (B3) (Riverine) Peposits (B3) (Riverine) Peposits (B3) (Riverine) Peposits (B10) eason Water Table (C2) Muck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) Neutral Test (D5)
HYDROLC Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Inundat Water-S Field Obse Surface Water Table Saturation F (includes car Describe Re Aerial fror Remarks:	ydrology Indicators iicators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ater Present? e Present? e Present? Present? ecorded Data (stream m CaSIL, April 20	s: erine) onriverine) rerine) I Imagery (I Yes (Yes (Yes (Yes (m gauge, m)04	ficient) Salt Cr Salt Cr Aquation Hydrog Y Oxidize Preser Recent 37) Other (No (Depth No (Depth nonitoring well, aei	ust (B11) Crust (B12) c Invertebra gen Sulfide (ad Rhizosph ce of Reduc I ron Reduc Explain in F (inches): (inches): (inches): ial photos, p	es (B13) Odor (C1) eres along ced Iron (C4 tion in Plow emarks)	Living Rod) ed Soils (wetl pections),	Secondary Water Water Sedim Drift D Trin N Crayfi C6) Satura Shallo FAC-N and Hydrology Pre if available:	Arlindicators (2 or more required) Marks (B1) (Riverine) Teent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Auck Surface (C7) sh Burrows (C8) atton Visible on Aerial Imagery (C9) w Aquitard (D3) Neutral Test (D5)
HYDROLC Wetland Hy Primary Ind Surface High W Saturat Water I X Sedime Surface Inundat Water	ydrology Indicators iicators (any one ind e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ater Present? e Present? Present? Present? epresent? apillary fringe) ecorded Data (stream m CaSIL, April 20	s: icator is suf erine) onriverine) I Imagery (I Yes (Yes (ficient) Salt Cr Biotic (Aquation Hydrog V Oxidize Preser Recent 37) Other (No (Depth No (Depth No (Depth nonitoring well, aer	ust (B11) Crust (B12) c Invertebra en Sulfide (ad Rhizosph ce of Reduc : Iron Reduc Explain in F (inches): (inches): (inches): ial photos, p	ees (B13) Ddor (C1) eres along ced Iron (C4 tion in Plow temarks)	Living Roo) ed Soils (wetl pections),	Secondary Water Sedim Drift D Traina Dry-Si Dry-Si Dry-Si Dry-Si Ors (C3) C6) Satura Shallo FAC-N	Arlandicators (2 or more required) Marks (B1) (Riverine) Peposits (B2) (Riverine) Peposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Auck Surface (C7) sh Burrows (C8) ation Visible on Aerial Imagery (C9) w Aquitard (D3) Neutral Test (D5)

Project/Site: PG&E Line 407(East)	City/County:Placer/	/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: ${\rm W}~1$.32e	
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township,	Range: Please see Locatio	n Map for all Sec,T	own,Range	
Landform (hillslope, terrace, etc.):	Local relief (concav	/e, convex, none):None	Slope (%):1	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: <u>W</u>	VGS84	
Soil Map Unit Name: San Joaquin- Cometa, 1-5% slopes		NWI classific	cation: Vernal Pool	2	
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🌔 🛛 N	o 🦳 🦳 (If no, explain in R	Remarks.)		
Are Vegetation Soil or Hydrology significantly	y disturbed? A	re "Normal Circumstances"	present? Yes 🌘	No 🦳	
Are Vegetation Soil or Hydrology naturally pr	roblematic? (I	f needed, explain any answe	ers in Remarks.)		
				327	

SUMMARY OF FINDINGS - Attach site map showing	sampling point locations	, transects, important	features, etc.
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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:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species				
1				That Are OBL, FACW, or FAC:	3	(A)		
2.				Total Number of Dominant				
3.				Species Across All Strata:	3	(B)		
4.	101				1259	20103 200		
	%	0 .	K	That Are OBL_FACW or FAC	100.0%	(A/B)		
Sapling/Shrub Stratum					100.0 %	(100)		
1.				Prevalence Index worksheet:				
2.				Total % Cover of:	Multiply by:	-		
3.				OBL species 60 x 1	1 = 60			
4.	8	-		FACW species x 2	2 = 0			
5.	8 <u> </u>			FAC species 40 x3	3 = 120			
Total Cover	. %			FACU species x4	4 = 0			
Herb Stratum				UPL species x 5	5 = 0			
¹ .Eryngium castrense	20	Yes	OBL	Column Totals: 100 (A)) 180	(B)		
² .Hordeum marinum ssp. gussoneanum	25	Yes	FAC	200				
³ .Lasthinia fremontii	20	Yes	OBL	Prevalence Index = B/A =	1.80			
4. Lolium multiflorum	15		FAC	Hydrophytic Vegetation Indicat	iors:			
5. Plagiobothrys stipitatus	15		OBL	Dominance Test is >50%				
6. Psilocarphus brevissimus	5		OBL	× Prevalence Index is ≤3.0 ¹				
7.	3			Morphological Adaptations ¹ (Provide support	ing		
8.	8		5)	data in Remarks or on a s	eparate sheet)	220		
Total Cover	1000/	-	3	Problematic Hydrophytic Veg	jetation' (Explair	ר)		
Woody Vine Stratum	100%							
1.				¹ Indicators of hydric soil and wet	tland hydrology	must		
2.	*			be present.				
 Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum % % Cover	r of Biotic C	Crust	%	Present? Yes (No (
Remarks:		22	18	1				

Profile De	scription: (Describe t	o the de	pth needed to docur	nent the	e indicator	or confir	m the absence of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	(Feature %	es Tvpe ¹	Loc ²	Texture ³ Remarks
0-6	7.5YR 3/4	90	7.5YR 5/8	10	C	M	Clay loam
¹ Type: C=4 ³ Soil Textur Hydric Soil Histos Histos Histic I Black I Black I Hydrog Stratific 1 cm M Deplet Thick I Sandy Sandy Restrictive Type: Depth (i Remarks:	Concentration, D=Depleres: Clay, Silty Clay, S Indicators: (Applicable of (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR C Auck (A9) (LRR D) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) e Layer (if present): Inches):	etion, RM andy Cla to all LF) (A11)	I=Reduced Matrix. y, Loam, Sandy Clay Rs, unless otherwise Sandy Redox Stripped Ma Loamy Muc Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr X Vernal Pool ic Soils list.	² Locatic Loam, S noted.) < (S5) htrix (S6) ky Minel red Matr atrix (F3 Surface ark Surface ark Surface s (F9)) ral (F1) ix (F2) i) e (F6) ace (F7) i (F8)	e Lining, F	RC=Root Channel, M=Matrix. am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Indicators for Problematic Hydric Soils ⁴ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) ⁴ Indicators of hydrophytic vegetation and wetland hydrology must be present. Hydric Soil Present? Yes (No (
HYDROL	DGY						
Wetland H	ydrology Indicators:						Secondary Indicators (2 or more required)
Primary Inc	licators (any one indica	tor is suf	ficient)				Water Marks (B1) (Riverine)
	- 14(-+ (A 4)			(544)			

Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)			
Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) (Riverine)			
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)	X Oxidized Rhizospheres along Living Roots (C3)	Thin Muck Surface (C7)			
T 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):				
Water Table Present? Yes (No (Depth (inches):				
Saturation Present? Yes (No (Depth (inches): Wetland Hyd	drology Present? Yes 🔎 No 🤇			
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if availa	ble:			
Aerial from CaSIL, April 2004					
Dementice					
Remarks:					
Containts.					

Project/Site: PG&E Line 407(East)	City/County:Placer/Su	tter/Sacramento	Sampling Date: 5/5,	/08
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W	135-137e
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Ra	nge:Please see Locatio	n Map for all Sec,	Town,Range
Landform (hillslope, terrace, etc.):	Local relief (concave, o	convex, none):None	Slope	(%):2
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum:	WGS84
Soil Map Unit Name: Xerofluvents		NWI classific	cation: Seasonal We	tland
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 💿 👘 No 🤇) (If no, explain in F	Remarks.)	
Are Vegetation Soil or Hydrology significantly	/ disturbed? Are "	Normal Circumstances"	present? Yes 🌘	No 🦳
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If ne	eded, explain any answe	ers in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🌘	No (No (is the Sampled Area				
Wetland Hydrology Present?	Yes (No C	within a Wetland?	Yes	•	No (
Remarks:							

1992 Settlert ER ADALD 191 201900 191	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species				
1.		14 <u>1</u>		That Are OBL, FACW, or FAC:	4	(A)		
2.				Total Number of Dominant				
3.				Species Across All Strata:	4	(B)		
4.	10		a.			0.00		
	%		5	 Percent of Dominant Species That Are OBL_EACW_or EAC: 	100.0.0/	(Δ/B)		
Sapling/Shrub Stratum					100.0 %	(~0)		
1.				Prevalence Index worksheet:				
2.		· · · · · · · · · · · · · · · · · · ·		Total % Cover of:	Multiply by:	_		
3.				OBL species	x 1 = 0			
4.	e		-	FACW species 45	x 2 = 90			
5.	<u></u>		<u></u>	FAC species 50 x	x 3 = 150			
Total Cover				FACU species	x4= 0			
Herb Stratum	. /*			UPL species 5 3	x5= 25			
¹ . Rumex crispus		Yes	FACW	Column Totals: 100 (A) 265	(B)		
2. Hordeum marinum ssp. gussoneanum	20	Yes	FAC	100 (
^{3.} Lolium multiflorum	30	Yes	FAC	Prevalence Index = B/A = 2.65				
4. Polypogon monspeliensis	15	Yes	FACW	Hydrophytic Vegetation Indic	ators:			
5. Eremocarpus setigerus	5		UPL	Dominance Test is >50%				
6.	×		55 5	Prevalence Index is ≤3.0 ¹				
7.			22]	Morphological Adaptations	¹ (Provide support	ing		
8.	8			data in Remarks or on a	a separate sheet)			
Total Cover	100%			Problematic Hydrophytic V	egetation' (Explain	n)		
Woody Vine Stratum	100 %							
1.				¹ Indicators of hydric soil and w	vetland hydrology	must		
2.	*			be present.				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum % % Cover	r of Biotic (Crust	%	Present? Yes (No (
Remarks:		2/		1.				

Profile Desc	ription: (Describe	to the de	pth needed to docu	ment the	indicator o	or confirm	n the absence of in	dicators.)
Depth (in aboa)	Matrix	0/	Redo	x Feature	es Turne 1	1.002	Testure ³	
(incries)			Color (moist)	70	iype	LOC-		Remarks
	7.5YK 3/4	100					Clay loam	
5	7.5YR 3/4	95	7.5YR 5/9	5	<u>C</u>	a:	Clay pan	
			107	-38				
	*							
<u></u>						<u>er 13</u>	. <u></u>	
	ά·						G. G.C.	
8		200 <u>-</u> 2						
¹ Type: C=C	oncentration, D=Dep	letion, RM	1=Reduced Matrix.	² Locatio	on: PL=Pore	Lining, R	C=Root Channel, M	=Matrix.
³ Soil Texture	s: Clay, Silty Clay, S	Sandy Cla	y, Loam, Sandy Clay	[,] Loam, S	andy Loam	, Clay Loa	am, Silty Clay Loam,	Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil II	ndicators: (Applicabl	le to all LF	RRs, unless otherwise	e noted.)			Indicators for Pr	oblematic Hydric Soils:
Histosol	(A1) binedon (A2)		Sandy Redo	ox (S5) atrix (S6)			1 cm Muck	(A9) (LRR C) (A10) (LBB B)
Black Hi	stic (A3)		Loamv Mu	ckv Miner	ral (F1)		Reduced Ve	ertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gle	yed Matr	ix (F2)		Red Parent	Material (TF2)
Stratified	d Layers (A5) (LRR (C)	Depleted M	1atrix (F3)		Other (Expla	ain in Remarks)
1 cm Mu	ick (A9) (LRR D)		Redox Dar	k Surface	e (F6)			
Depleter	d Below Dark Surface	e (A11)	Depleted D	ark Surfa	ace (F7)			
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)	(ГО)		⁴ Indicators of hv	drophytic vegetation and
Sandy G	Bleyed Matrix (S4)						wetland hydr	ology must be present.
Restrictive	Layer (if present):							
Type: Cla	iy pan							
Depth (in	ches): 5						Hydric Soil Pres	ent? Yes 🕡 No 🤇
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:						Secondary	Indicators (2 or more required)
Primary India	ators (any one indic	ator is suf	ficient)				Water	Marks (B1) (Riverine)
Surface	Water (A1)		Salt Crust	t (B11)			Sedime	ent Deposits (B2) (Riverine)
High Wa	iter Table (A2)		🗌 Biotic Cru	ist (B12)			Drift De	eposits (B3) (Riverine)
Saturatio	on (A3)		Aquatic Ir	vertebra	tes (B13)		× Draina	ge Patterns (B10)
Water N	larks (B1) (Nonriveri	ine)	Hydrogen	Sulfide (Ddor (C1)		Dry-Se	eason Water Table (C2)
X Sedimer	nt Deposits (B2) (No i	nriverine)) X Oxidized	Rhizosph	ieres along l	Living Ro	ots (C3) 📃 Thin M	luck Surface (C7)
X Drift Dep	oosits (B3) (Nonriver	rine)	Presence	of Reduc	ced Iron (C4) 		sh Burrows (C8)
	Soll Cracks (B6) on Visible on Asriel I	modony (I	Recent Iro	on Reduc Inlain in E	amorko)	ed Solis (C6) Satura	tion Visible on Aerial Imagery (C9)
Water-S	tained Leaves (B9)	magery (i		plainin	cinaiks/			leutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present? Y	es 🔿	No 🍙 🛛 Depth (ir	nches):				
Water Table	Present? Y	es C	No (Depth (ir	iches):				
Saturation P	resent? Y	es C	No C Depth (ir	nches):				~ ~
(includes cap	oillary fringe)					Wet	and Hydrology Pre	sent? Yes 🔎 No 🤇
Aerial from	corded Data (stream	gauge, m 14	ionitoring well, aerial	photos, p	previous insp	pections),	if available:	
Demender:	. Cuore, r prii 200	a geo						
Remarks:								

Project/Site: PG&E Line 407(East)	_ City/County:Placer	/Sutter/Sacramento	Sampling Date: 5/5/)8
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W]	138e
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township,	Range: Please see Locatio	on Map for all Sec, T	'own,Range
Landform (hillslope, terrace, etc.):	Local relief (concav	ve, convex, none): <u>None</u>	Slope (%):3
Subregion (LRR):C - Mediterranean California Lat: 33	8 45'03.51"N	Long: 121 30'05.56"	W Datum:	NGS84
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes		NWI classifi	cation: Seasonal Swa	ıle
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🍙 🛛 N	o 🌈 👘 (If no, explain in F	Remarks.)	
Are Vegetation Soil or Hydrology significant	ly disturbed? A	re "Normal Circumstances"	present? Yes 🌘	No 🦳
Are Vegetation Soil or Hydrology naturally p	problematic? (I	f needed, explain any answe	ers in Remarks.)	
		anan na na a		327

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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes	No (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test	workshee	t:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	ant Specie:	S			
1		2.41	27 <u>.</u>	That Are OBL, FA	CW, or FA	C:	3	(A)	
2.				Total Number of D	ominant				
3.	8			Species Across Al	l Strata:		4	(B)	
4.				- Developt of Develop				A-DF 30	
	- %		5.	That Are OBL FA	CW or FA	с. С.	75 0 %	(A/B)	
Sapling/Shrub Stratum							15.0 70	())	
1.				Prevalence Index	workshee	et:			
2.				Total % Cover	r of:	Mult	iply by:	2	
3.	-0			OBL species		x 1 =	0		
4.				FACW species	50	x 2 =	100		
5.	*			FAC species	35	x 3 =	105		
Total Cover	: %			FACU species		x 4 =	0		
Herb Stratum				UPL species	15	x 5 =	75		
¹ .Rumex crispus	35	Yes	FACW	Column Totals:	100	(A)	280	(B)	
2. Eremocarpus setigerus	15	Yes	UPL		100				
³ . Polypogon monspeliensis	15	Yes	FACW	Prevalence I	ndex = B//	A =	2.80		
4. Lolium multiflorum	25	Yes	FAC	Hydrophytic Veg	etation Inc	licators:			
5. Cynodon dactylon	10	**	FAC	🗙 Dominance Te	est is >50%	6			
6.	2			X Prevalence In	C Prevalence Index is ≤3.0 ¹				
7.		2.41 • 61	27]	Morphological	Adaptatio	ns¹ (Provi	de supporti	ng	
8.	8			data in Rer	marks or o	n a separa	ate sheet)		
Total Cover	100%			- Problematic H	lydrophytic	Vegetatio	on' (Explair	1)	
Woody Vine Stratum	100 %								
1.				¹ Indicators of hydr	ric soil and	l wetland	hydrology	must	
2.				be present.					
Total Cover	: %			Hydrophytic					
% Pore Cround in Herb Stratum 1/ % Cover	of Riotio (Pruot	07	Vegetation	Vac G	No	\sim		
			<u> %0</u>	Flesent?	ies (NO	<i>۱</i>		
Remarks: Eremocarpus and Lolium tend to colonize	e wetland	s late in th	ne season (s	summer-tall).					

Profile Des	scription: (Describe to t	he depth n	eeded to docun	nent the	indicator	or confirm	n the ab	sence of i	ndicator	rs.)	- 16
Depth	Matrix		Redox	Feature	əs 🗕		_	3		_	
(inches)	Color (moist)	% <u>C</u>	olor (moist)	%	lype'	Loc ²	lext	ure	3	Rem	arks
0-6	7.5YR 3/4	<u>95</u> 7.5¥	/R 5/8		<u>C</u>	<u>M</u>	Clay loa	m w/sand	9 <u>-</u>		
	Concentration, D=Depleti		luced Matrix.	2Locatio				Channel, M	1=Matrix		
³ Soil Textu	res: Clay, Silty Clay, San	dy Clay, Loa	am, Sandy Clay	Loam, S	andy Loan	n, Clay Loa	am, Silty	Clay Loam	, Silt Loa	am, Silt, Loa	my 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) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) X Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) X Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) X Other (Explain in Remarks) Sandy Mucky Mineral (S1) Vernal Pools (F9) 4 Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: Hardpan Hydric Soils List Depth (inches):5 Hydric Soils List Hydric Soils List						n and ent. No (
	OGY										
Wetland H	vdrology Indicators							Secondar	Indicat	ors (2 or mo	pre required
Primary Inc	ticators (any one indicato	r is sufficien	t)					Water	Marks	(B1) (Riveri	ne)
	e Water (A1)	to outficient	Salt Crust	(B11)				Sedim	ent Der	nosits (B2) (l	Riverine)
High W	Vater Table (A2)		Biotic Crust (B12)						ine)		
Satura	tion (A3)		Aquatic Invertebrates (B13)								
Water	Marks (B1) (Nonriverine)	Hydrogen	Sulfide (Ddor (C1)			Dry-S	eason V	Vater Table	(C2)
X Sedime	ent Deposits (B2) (Nonriv	verine)		Rhizosph	eres along	Living Ro	ots (C3)	Thin M	/luck Su	rface (C7)	Concourt of
Drift De	eposits (B3) (Nonriverine)	Presence of Reduced Iron (C4) 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)

Aerial from CaSIL, April 2004

Field Observations:

Surface Water Present?

(includes capillary fringe)

Water Table Present?

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:

C

No

Saturation Visible on Aerial Imagery (C9)

6

Shallow Aquitard (D3)

FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes

Project/Site: PG&E Line 407(East)	City/County:Placer	/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric	~	State:CA	Sampling Point: W 139e		
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township,	Range: Please see Locatio	n Map for all Sec, Town, Range		
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):None Slope (%):1				
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84		
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes & San Joa	quin-Cometa	NWI classific	ation: Seasonal Wetland		
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌔 🛛 N	o 🦳 🦳 (If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology significantly	v disturbed? A	re "Normal Circumstances" p	present? Yes 🏟 🛛 No 🤇		
Are Vegetation Soil or Hydrology naturally pr	oblematic? (I	f 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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🏈	within a Wetland?	Yes	No (
Remarks:						

Tree Stratum (Use scientific names.) % Cover Species? Status Number of Dominant Species 1.					
1 That Are OBL, FACW, or FAC: 3 (A)					
)				
Z. Total Number of Dominant					
3. Species Across All Strata: 3 (B)				
4. Demonstration of Demonstration	20				
% Percent of Dominant Species	(B)				
Sapling/Shrub Stratum	Ξ,				
1. Prevalence Index worksheet:					
2. Total % Cover of: Multiply by:					
3. OBL species x 1 = 0					
4. FACW species 50 x 2 = 100					
5. FAC species 35 x 3 = 105					
Total Cover: % FACU species x 4 = 0					
Herb Stratum UPL species 10 x 5 = 50					
1. Rumex crispus 25 Yes FACW Column Totals: 95 (A) 255	(B)				
2 Lolium multiflorum 35 Yes FAC					
³ Polypogon monspeliensis 20 Yes FACW Prevalence Index = B/A = 2.68					
4 <i>Eremocarpus setigerus</i> 10 UPL Hydrophytic Vegetation Indicators:					
5. unknown grass 5 Dominance Test is >50%	X Dominance Test is >50%				
6. Lythrum hyssopifolia 5 FACW \times Prevalence Index is $\leq 3.0^{1}$					
7. Morphological Adaptations ¹ (Provide supporting					
8. data in Remarks or on a separate sneet)					
Total Cover: 100%					
Woody Vine Stratum	~				
1 ¹ Indicators of hydric soil and wetland hydrology mu	ıst				
2 be present.					
Total Cover: % Hydrophytic					
% Bare Ground in Herb Stratum % % Cover of Biotic Crust % Present? Yes (No (
Remarks: Eremocarpus and Lolium tend to colonize wetlands late in the season (summer-fall).					

Depth Matrix Redox Features							SERV INTERPORTATIONS AND			
(inches)	Color (moist)	%	Color (moist)	%	Type1	Loc ²	Texture ³ Remarks			
0-6	7.5YR 3/4	98	7.5YR 5/8	2	C	M	Clay loam			
					·					
¹ Type: C=0 ³ Soil Textu	Concentration, D=Dep res: Clay, Silty Clay, S	letion, RM Sandy Cla	I=Reduced Matrix. y, Loam, Sandy Clay	² Locatio Loam, S	on: PL=Por andy Loan	e Lining, F 1, Clay Lo	RC=Root Channel, M=Matrix. am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.			
Hydric Soil Histoso Histor I Black I Hydrog Stratifie 1 cm M Deplet Thick I Sandy Sandy	Indicators: (Applicable of (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR (Muck (A9) (LRR D) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleved Matrix (S4)	e to all LF ;) ə (A11)	RRs, unless otherwise Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D X Redox Depleted D Vernal Pool	e noted.) x (S5) atrix (S6) kky Miner yed Matri latrix (F3 c Surface ark Surfa ressions ls (F9)	ral (F1) ix (F2)) € (F6) ace (F7) (F8)		Indicators for Problematic Hydric Soils [*] : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)			
Restrictive Type: <u>H</u> Depth (i	ardpan (ardpan): (arches): 6						Hydric Soil Present? Yes (No (
Remarks:	Listed on the Nation	nal Hydr	ic Soils list.							
IYDROL	DGY									
Wetland H	ydrology Indicators:						Secondary Indicators (2 or more required)			
Primary Inc	licators (any one indic	ator is suf	ficient)				Water Marks (B1) (Riverine)			
Surfac	e Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Riverine)			
High W	/ater Table (A2)		Biotic Cru	st (B12)			Drift Deposits (B3) (Riverine)			

	Surface Water (A1)				Salt Crust (B11)			Sediment Deposits (B2) (Riverine)			
	High Water Table (A2)			\square	Biotic Crust (B12)			Drift Deposits (B3) (Riverine)			
	Saturation (A3)				Aquatic Invertebrates (B13)			Drainage Patterns (B10)			
	Water Marks (B1) (Nonriverine)			Hydrogen Sulfide Odor (C1)		\square	Dry-Season Water Table (C2)				
×	X Sediment Deposits (B2) (Nonriverine)			Oxidized Rhizospheres along Living Roots (C3)			Thin Muck Surface (C7)				
X	X Drift Deposits (B3) (Nonriverine)			Presence of Reduced Iron (C4)			Crayfish Burrows (C8)				
Surface Soil Cracks (B6)			Recent Iron Reduction in Plowed	tecent Iron Reduction in Plowed Soils (C6) 🛛 🗍 Saturation Visible on Aerial Ir							
Inundation Visible on Aerial Imagery (B7)			Other (Explain in Remarks) 🛛 🗍 Shallow Aquitard (D3)			Shallow Aquitard (D3)					
Water-Stained Leaves (B9)						\square	FAC-Neutral Test (D5)				
Fie	d Observations:										
Su	rface Water Present?	Yes (No	•	Depth (inches):						
Wa	iter Table Present?	Yes (No	•	Depth (inches):						
Sa (ind	turation Present? cludes capillary fringe)	Yes (No (Depth (inches):	Wetland Hydrology Present? Yes 🔎 No 🤇					
De	scribe Recorded Data (stre	am gauge,	monitc	ring	well, aerial photos, previous inspec	tions), if availat	ole:				
Ae	rial from CaSIL, April 2	2004									
Re	marks:										

Project/Site: PG&E Line 407(East)	City/County:Placer/Sut	ter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: ${ m W}~1$	42e	
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Ran	ge:Please see Locatio	n Map for all Sec,T	own,Range	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):None Slope (%):1				
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: W	/GS84	
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes		NWI classific	cation: Seasonal Wetl	and	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes 🍙 👘 No 🦳	(If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology significantly	disturbed? Are "N	Normal Circumstances"	present? Yes 🌘	No (
Are Vegetation Soil or Hydrology naturally pro	oblematic? (If nee	eded, 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 🌘	No (Is the Sampled Area			
Wetland Hydrology Present?	Yes 🌘	No 🥟	within a Wetland?	Yes (No (
Remarks:						

	Absolute	Dominant	t 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: 1		(A)
2.				Total Number of Do	minant			
3.				Species Across All	Strata:	1		(B)
4.		5		Barroot of Daminar	+ One size			1990 - 900
	%			That Are OBL, FAC	W. or FA	6 C: 100	0%	(A/B)
Sapling/Shrub Stratum						- 100	.0 /0	(* = =)
1.	81	20	2	Prevalence Index v	workshee	et:		
2.				Total % Cover	of:	Multipl	y by:	
3.	0		43	OBL species	90	x 1 =	90	
4.			5) .	FACW species		x 2 =	0	
5.			29 <u>.</u>	FAC species	5	x 3 =	15	
Total Cover	: %		4)	FACU species		x 4 =	0	
Herb Stratum				UPL species	5	x 5 =	25	
¹ . Juncus xiphioides	90	Yes	OBL	Column Totals:	100	(A)	130	(B)
² .Lolium multiflorum	5		FAC				Server and Provide	
³ .Bromus hordeaceous	5		UPL	Prevalence In	dex = B/r	A =	1.30	
4.			9.)	Hydrophytic Veget	tation Inc	licators:		
5.	o		2	🗙 Dominance Tes	st is >50%	o		
6.		A	535 	Prevalence Ind	ex is ≤3.0) ¹		
7.			2)	Morphological /	Adaptatio	ns ¹ (Provide	supporti	ng
8.			5.	- data in Rem	arks or o	n a separate	sheet)	
Total Cover	100%		N.	Problematic Hy	drophytic	Vegetation'	(Explain)
Woody Vine Stratum	100 /0							
1.				¹ Indicators of hydric	c soil and	l wetland hy	drology	nust
2.				be present.				
Total Cover	: %	80 2	19.1 1	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum% % Cover	of Biotic C	Crust	%	Present?	Yes (No (
Remarks:				1.2				

(inches)	Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture	³ Remarks
(Inches)	Color (moist) %	Color (moist) % lype ' Loc² Image: Color (moist) % lype ' Loc² Image: Color (moist) % lype ' Loc² Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) RM=Reduced Matrix. ²Location: PL=Pore Lining, F Image: Color (moist) Image: Color (moist) RRs, unless otherwise noted.) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) Image: Color (moist) <td< th=""><th>C=Root Cha am, Silty Cla Indicato</th><th>annel, M=Matrix. y Loam, Silt Loam, Silt, Loamy Sand, Sand rs for Problematic Hydric Soils⁴: m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) her (Explain in Remarks)</th></td<>	C=Root Cha am, Silty Cla Indicato	annel, M=Matrix. y Loam, Silt Loam, Silt, Loamy Sand, Sand rs for Problematic Hydric Soils ⁴ : m Muck (A9) (LRR C) m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) her (Explain in Remarks)
Depleted I	Below Dark Surface (A11	Depleted Dark Surface (F7)		
Thick Darl	k Surface (A12)	Redox Depressions (F8)	41	
Sandy Mu	icky Mineral (S1) eved Matrix (S4)		indicato wetla	ors of nydropnytic vegetation and and hydrology must be present
Restrictive La	ayer (if present):			
Type: Harc	dpan			
Depth (inch	nes):5		Hydric S	ioil Present? Yes 🕢 No 🤇
Remarks: Hyc	dric soils assumed due	to presence of FACW- and OBL hydrophytes		
YDROLOG	βY			
Wetland Hydr	rology Indicators:		<u>Se</u>	condary Indicators (2 or more required)
Primary Indica	tors (any one indicator is	sufficient)		Water Marks (B1) (Riverine)
Surface W	Vater (A1)	Salt Crust (B11)		Sediment Deposits (B2) (Riverine)
High Wate	er Table (A2)	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)
	1 (A3) dec (B1) (Nontherine)	Aquatic Invertebrates (B13)	×	Drainage Patterns (B10)
Vvater IVIal	Deposite (B2) (Nonriverine)	Ovidized Bhizespheres along Living Ba		Thin Muck Surface (C7)
Drift Deno	usits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Cravfish Burrows (C8)
Surface S	oil Cracks (B6)	Recent Iron Reduction in Plowed Soils	(C6)] Saturation Visible on Aerial Imagery (C9)
 Inundation	, -∕ Nicible on Acriel Imeger		` ' -	Challeur Amiltand (D2)

X Surface Soil Cracks (B6	i)		Recent Iron Reduction in Plowed	ent Iron Reduction in Plowed Soils (C6) 🛛 🦳 Saturation Visible on Aerial Imagery (C				
Inundation Visible on Ae	erial 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? (includes capillary fringe)	Yes (No 🍙	Depth (inches):	Wetland Hydrology Present? Yes 🌘 No 🤇				
Describe Recorded Data (str	ream gauge,	monitoring	well, aerial photos, previous inspec	ctions), if available:				
Aerial from CaSIL, April	2004							
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Plac	cer/Sutter/S	r/Sacramento Samp		Date: 5/5/(08
Applicant/Owner: Pacific Gas and Electric			State:CA	Sampling	Point: W 1	.43e
Investigator(s):Erin Hess, E. Alfieri	Section, Townsh	nip, Range: $\underline{\mathbf{P}}$	lease see Location	n Map for	all Sec,T	'own,Range
Landform (hillslope, terrace, etc.):	Local relief (con	icave, conve	k, none):None		Slope (%):1
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long	g: 121 30'05.56" Y	W	Datum:	VGS84
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes & San Joa	quin-Cometa		NWI classific	ation: Veri	nal Pool	2
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🌘	No C	(If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology significantly	/ disturbed?	Are "Norm	al Circumstances" p	present? Y	′es 🌘	No 🦳
Are Vegetation Soil or Hydrology naturally pr	oblematic?	(If needed,	explain any answe	rs in Rema	rks.)	
		1 13 AP 13 AP			2 22 2	80.0

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🌘 Yes 🌘	No (No (ls the Sampled Area				
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes (.	No (
Remarks:							

	Absolute	Dominant	Indicator	Dominance Test worksheet		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	à	
1				That Are OBL, FACW, or FAC	C: 3	(A)
2				Total Number of Dominant		
3.				Species Across All Strata:	3	(B)
4.				Percent of Dominant Species		
	%			That Are OBL, FACW, or FAC	C: 100.0 %	(A/B)
Sapling/Shrub Stratum						
1				Prevalence Index workshee	t:	
2				Total % Cover of:	Multiply by:	2
3.				OBL species 40	x 1 = 4()
4.			21-	FACW species 20	x 2 = 4()
5.	·			FAC species 30	x 3 = 90)
Total Cover	: %			FACU species	x 4 = 0	
Herb Stratum				UPL species 10	x 5 = 50)
¹ . Plagiobothrys stipitatus	30	Yes	FAC	Column Totals: 100	(A) 22	0 (B)
² .Lasthinia fremontii	25	Yes	OBL			
³ .Layia fremontii	20	Yes	FACW	Prevalence Index = B/A	A = 2.2	0
⁴ .Leontodon taraxacoides	10		UPL	Hydrophytic Vegetation Ind	icators:	
5. Downingia bicornuta	10		OBL	► Dominance Test is >50%	J	
6. Eryngium castrense	5		OBL	Prevalence Index is ≤3.0	1	
7.		~~		Morphological Adaptation	1s1 (Provide suppo	rting
8.			5.	- data in Remarks or or	i a separate sheet)
Total Cove	100%		3	Problematic Hydrophytic	Vegetation' (Expla	ain)
Woody Vine Stratum	100 /0					~
1.	25	9 <u>5</u>	27	¹ Indicators of hydric soil and	wetland hydrolog	y must
2.				be present.		
Total Cover	: %		22	Hydrophytic		
% Bare Ground in Herb Stratum% % Cover	of Biotic C	Crust	%	Present? Yes (No (
Remarks:				1		

Depth Matrix	andersensers endemmer verselensensereructioner indentererunten er einer im er	
(inches) Color (moist) %	Color (moist) % Type ¹ Lo	oc ² Texture ³ Remarks
<u></u>		
27		
· · · · · · · · · · · · · · · · · · ·		
<u></u>		
³ Reil Textures: Cleve Silty Cleve Sendy Cleve	Reduced Matrix. *Location: PL=Pore Lini	ing, RC=Root Channel, M=Matrix.
-Soli Textures: Clay, Silty Clay, Sandy Clay, I	Loam, Sandy Clay Loam, Sandy Loam, Cla	ay Loarn, Silty Clay Loarn, Silt Loarn, Silt, Loarny Sand, Sand.
Hydric Soil Indicators: (Applicable to all LRRs	s, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
Histosol (A1)	Sandy Redox (S5)	
Ristic Epipedon (A2)	Supped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)		Red Derent Material (TE2)
Stratified Lovers (A5) (LBB C)	Depleted Matrix (F3)	Cother (Evaluin in Remarks)
	Bedox Dark Surface (F6)	
Depleted Below Dark Surface (A11)		
Thick Dark Surface (A12)	Beday Depressions (F8)	
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	⁴ Indicators of hydrophytic vegetation and
Sandy Gleved Matrix (S4)		wetland hydrology must be present
Restrictive Laver (if present):		
Tuno:		
Depth (inches):		Hydric Soil Present? Yes (No (
Remarks: Soils assumed due to dominan	ce by OBL and FACW hydrophytes.	Also, redox features and oxidized rhizospheres were
observed in the top layer of soil	I.	

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) (Riverine)
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) X Oxidized Rhizospheres along Livir	ng Roots (C3) 🦳 Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Soils (C6) Saturation Visible on Aerial Imagery (C9)
X 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 C 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:
Aerial from CaSIL, April 2004	
Remarks:	

Project/Site: PG&E Line 407(East)	_ City/County:Placer	r/Sutter/Sacramento	Sampling Date: 5/5/08			
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 144e			
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township,	, Range:Please see Locatio	n Map for all Sec, Town, Range			
Landform (hillslope, terrace, etc.):	Local relief (conca	ive, convex, none):None	Slope (%):1			
Subregion (LRR):C - Mediterranean California Lat: 38	3 45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84			
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes & San Joa	aquin-Cometa	NWI classific	ation: Seasonal Wetland			
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes 🌔 🛛 N	No 🦳 🦳 (If no, explain in R	emarks.)			
Are Vegetation Soil or Hydrology significantl	y disturbed? A	Are "Normal Circumstances" p	present? Yes 🌘 No 🤇			
Are Vegetation Soil or Hydrology naturally p	roblematic? (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 Sampled Area				
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes	•	No (
Remarks:							

	Absolute	Dominant	Indicator	Dominance Test we	orksheet	:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominan	t Species	1		
1		141		That Are OBL, FAC	V, or FAC	D: 3		(A)
2.				Total Number of Dor				
3.				Species Across All S	Strata:	3		(B)
4.	191	5	al -					20122 - 50
	%	·····	. <u> </u>	That Are OBL FAC	N or FA	. 100	0.0/	(Δ/B)
Sapling/Shrub Stratum					1, 01171	J. 100	1.0 70	(100)
1.				Prevalence Index w	orkshee	et:		
2.				Total % Cover c	f:	Multipl	y by:	-
3.			··	OBL species		x 1 =	0	
4.	9 <u> </u>			FACW species	70	x 2 =	140	
5.	<u>8</u>		<u>22</u>	FAC species	25	x 3 =	75	
Total Cover	. %			FACU species		x 4 =	0	
Herb Stratum				UPL species	5	x 5 =	25	
^{1.} Rumex crispus	30	Yes	FACW	Column Totals:	100	(A)	240	(B)
2. Lolium multiflorum	20	Yes	FAC	Construction of the constr	100			
3. Polypogon monspeliensis	25	Yes	FACW	Prevalence Inc	lex = B/A	/ =	2.40	
4. Cyperus esculentus	15		FACW	Hydrophytic Veget	ation Ind	icators:		
5. Polygon arenastrum	5	8	UPL	🖌 Dominance Tes	t is >50%	3		
6. Xanthium strumarium	5		FAC	🛛 🗙 Prevalence Inde	ex is ≤3.0	1		
7.	25 247 2		·	Morphological A	daptation	ns ¹ (Provide	supporti	ng
8.			3	- data in Rema	arks or or	n a separate	sheet)	
Total Cover	100.04		3	Problematic Hyd	drophytic	Vegetation	(Explair	1)
Woody Vine Stratum	. 100%							
1.				¹ Indicators of hydric	soil and	wetland hy	drology	must
2.	·······			be present.				
Total Cover	: %		<u>n²</u>	Hydrophytic				
% Rara Ground in Harb Stratum	of Biotic (Pruet	07	Vegetation Procent2	Voc G	No C	i	
			70 	Fiesent?	162 (0	NO (
Remarks:								

Depth	Matrix			ALCONTRACT MEDICONSTRUCTION OF LOUGH AND ALCONTRACTORS AND A			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³ Remarks
0-6	7.5YR 3/4	98	7.5YR 5/8	2	C	M	clay loam w/ sand
e							
						·	
¹ Type: C= ³ Soil Textu	Concentration, D=Depl ires: Clay, Silty Clay, S	etion, RN Sandy Cla	1=Reduced Matrix. y, Loam, Sandy Clay	² Locatio Loam, S	on: PL=Por Sandy Loan	e Lining, F n, Clay Lo	RC=Root Channel, M=Matrix. am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil Histos Histic Black Hydro Stratifi 1 cm I Deplet Thick Sandy	I Indicators: (Applicabl col (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) (LRR C Muck (A9) (LRR D) ted Below Dark Surface Dark Surface (A12) / Mucky Mineral (S1) / Gleved Matrix (S4)	e to all Lf	RRs, unless otherwise Sandy Redo: Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Dark X Redox Depleted Vernal Pool	noted.) x (S5) htrix (S6) ky Mine ved Matr atrix (F3) x Surface ark Surface ark Surface s (F9)) ral (F1) ix (F2) i) ∋ (F6) ace (F7) i (F8)		Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 4Indicators of hydrophytic vegetation and wetland bydrology must be present
Restrictive	e Layer (if present): Tardnan						
Depth (inches): 6						Hydric Soil Present? Yes 🕢 No 🤇
Remarks:	Hydric soils assume	ed due to	inundation and pre	sence	of FACW	and OB	L hydrophytes
HYDROL	OGY						
Wetland H	lydrology Indicators:						Secondary Indicators (2 or more required)

Primary Indicators (any one	indicator is s	ufficient)		21		Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)						Sediment Deposits (B2) (Riverine)
High Water Table (A2)			Biotic Crust (B12)			Drift Deposits (B3) (Riverine)
Saturation (A3)			Aquatic Invertebrates (B13)		X	Drainage Patterns (B10)
Water Marks (B1) (Noni	r iverine)		Hydrogen Sulfide Odor (C1)			Dry-Season Water Table (C2)
X Sediment Deposits (B2)	(Nonriverin	e)	Oxidized Rhizospheres along	Living Roots (C3)		Thin Muck Surface (C7)
X Drift Deposits (B3) (Non	riverine)		Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6	}		Recent Iron Reduction in Plow	ed Soils (C6)		Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Ae	rial Imagery	(B7)	Other (Explain in Remarks)		Π	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	drol	ogy Present? Yes 🔎 No 🤇
Describe Recorded Data (str	·eam gauge,	monitoring	well, aerial photos, previous ins	pections), if availa	ble:	
Aerial from CaSIL, April	. 2004					
Remarks:						

Project/Site: PG&E Line 407(East)	City/County:Place	r/Sutter/Sacramento	Sampling Date: 5/5/08			
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 145e			
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township	, Range:Please see Locatio	n Map for all Sec, Town, Range			
Landform (hillslope, terrace, etc.):	Local relief (conca	ave, convex, none):None	Slope (%):1			
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84			
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes & San Joa	iquin-Cometa	NWI classific	ation: Seasonal Wetland			
Are climatic / hydrologic conditions on the site typical for this time of y	ear?Yes 🕞 👘 N	No 🦳 🦳 (If no, explain in R	emarks.)			
Are Vegetation Soil or Hydrology significantly	y disturbed?	Are "Normal Circumstances" p	present? Yes 🌘 No 🤇			
Are Vegetation Soil or Hydrology naturally p	roblematic? (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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🏈	within a Wetland?	Yes	No (
Remarks:						

and control for all the former to	Absolute	Dominant	Indicator	Dominance Test	workshee	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	ant Specie	s		
1				That Are OBL, FA	CW, or FA	C:	4	(A)
2.				Total Number of D	ominant			
3.				Species Across Al	Strata:		4	(B)
4.	10)	5.		D				2122 - 20
	%	·····		That Are OBL FA	INC Species	s C' 1	00 0 %	(Δ/R)
Sapling/Shrub Stratum						1	00.0 /0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1.				Prevalence Index	workshe	et:		
2.				Total % Cover	of:	Mult	iply by:	-
3.		-		OBL species	30	x 1 =	30	
4.				FACW species	30	x 2 =	60	
5.	<u></u>			FAC species	30	x 3 =	90	
Total Cover	. %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
^{1.} Glyceria declinata	30	Yes	OBL	Column Totals:	90	(A)	180	(B)
2. Lolium multiflorum	20	Yes	FAC	 Comparison Association Comparison Comparison Comparison 	20			
3. Juncus ssp.	15	Yes	FACW	Prevalence l	ndex = B/	A =	2.00	
4. Rumex crispus	15	Yes	FACW	Hydrophytic Vege	etation Ind	dicators:		
5. Hordeum marinum ssp. gussoneanum	10	÷	FAC	🗙 Dominance Te	est is >50%	6		
6.			N	X Prevalence In	dex is ≤3.0) ¹		
7.				Morphological	Adaptatio	ns ¹ (Provid	de supporti	ng
8.				data in Rer	narks or o	n a separa	ite sheet)	44
Total Cover	: 00 o/			Problematic H	ydrophytic	: Vegetatic	n' (Explair	1)
Woody Vine Stratum	30 70							
1.				¹ Indicators of hydr	ic soil and	wetland	nydrology	must
2.				be present.				
Total Cover	. %	and and a second se	a:	Hydrophytic				
% Bare Ground in Herb Stratum 10 % Cover	r of Biotic C	Crust	%	Vegetation Present?	Yes (e	No	\cap	
Remarks: algal matting was present on the soil surface	ace.	22	15					

Denth	Matrix		Redox	Ent tre Feature	s	or comm	in the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³ Remarks
0-6	7.5YR 3/4	98	7.5YR 5/8	2	С	M	clay loam w/ sand
¹ Type: C= ³ Soil Textu Hydric Soil Histos Histic Black Hydrog Stratifi 1 cm M Deplet	Concentration, D=Depl res: Clay, Silty Clay, S I Indicators: (Applicabl ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR C) Muck (A9) (LRR D) ted Below Dark Surface	letion, RN Sandy Cla e to all L	A=Reduced Matrix. 2 ay, Loam, Sandy Clay L Rs, unless otherwise I Sandy Redox Stripped Mat Loamy Muck Loamy Gleye Depleted Ma Redox Dark : Depleted Dai	Location oam, Sa noted.) (S5) rix (S6) y Minera ad Matrix trix (F3) Surface rk Surface	al (F1) (F6) ce (F7)	e Lining, F	RC=Root Channel, M=Matrix. am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand Indicators for Problematic Hydric Soils ⁴ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks)
Sandy	Dark Surface (A12) 7 Mucky Mineral (S1) 7 Gleyed Matrix (S4)		X Redox Depre	essions ((F9)	(F8)		⁴ Indicators of hydrophytic vegetation and wetland hydrology must be present.
Restrictive Type: H Depth (Remarks:	e Layer (if present): Iardpan inches): 6 Hydric soils assume	ed due to	inundation and pres	sence o	fFACW	and OBI	Hydric Soil Present? Yes (No (
HYDROL Wetland H	OGY lydrology Indicators: dicators (any one indica	ator is su	fficient)				Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)

Primary Indicators (any one i	ndicator is su	ufficient)	}		20		Water Marks (B1) (Riverine)			
Surface Water (A1)				Salt Crust (B11)			Sediment Deposits (B2) (Riverine)			
High Water Table (A2)			\square	Biotic Crust (B12)		50 10	Drift Deposits (B3) (Riverine)			
Saturation (A3)				Aquatic Invertebrates (B13)			C Drainage Patterns (B10)			
Water Marks (B1) (Nonr	'iverine)			Hydrogen Sulfide Odor (C1)			Dry-Season Water Table (C2)			
X Sediment Deposits (B2)	(Nonriverine	e)	×	Oxidized Rhizospheres along Living Roots (C3)			Thin Muck Surface (C7)			
X Drift Deposits (B3) (Non	(Nonriverine) Presence of Reduced Iron (C4)				Crayfish Burrows (C8)					
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)				Ē	Shallow Aquitard (D3)					
Water-Stained Leaves (I	B9)					1	FAC-Neutral Test (D5)			
Field Observations:							<u></u>			
Surface Water Present?	Yes (No (ì	Depth (inches):						
Water Table Present?	Yes (No 🌘	ř.	Depth (inches):						
Saturation Present? (includes capillary fringe)	Yes (No (È.	Depth (inches):	Wetland Hy	/dro	logy Present? Yes 🛈 No 🤇			
Describe Recorded Data (str	eam gauge,	monitori	ing w	vell, aerial photos, previous in	spections), if availa	able				
Aerial from CaSIL, April	2004									
Remarks:										

Project/Site: PG&E Line 407(East)	_ City/County:Place	er/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: \mathbf{W}	l46-147e	
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township	o, Range:Please see Locatio	n Map for all Sec,7	Town,Range	
Landform (hillslope, terrace, etc.):	Local relief (conc	ave, convex, none):None	Slope	(%):1	
Subregion (LRR):C - Mediterranean California Lat: 38	3 45'03.51"N	Long: 121 30'05.56"	W Datum:	WGS84	
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes & San Joa	aquin-Cometa	NWI classific	ation: Vernal Pool	29	
Are climatic / hydrologic conditions on the site typical for this time of y	/ear?Yes 🕞	No 🦳 🦳 (If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology significantl	y disturbed?	Are "Normal Circumstances" p	oresent? Yes 🌘	No 🦳	
Are Vegetation Soil or Hydrology naturally p	roblematic?	(If needed, explain any answe	rs in Remarks.)		
		10 (41) 10 (41) 10 (41)		820	

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 Sampled Area			
Wetland Hydrology Present?	Yes 🌘	No 🥟	within a Wetland?	Yes (No (
Remarks:						

and where the strates of Factor we	Absolute	Dominant	t Indicator	Dominance Test v	vorkshee	et:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	nt Specie	S		
1.				That Are OBL, FAC	W, or FA	C:	4	(A)
2				Total Number of Do	minant			
3.				Species Across All	Strata:		4	(B)
4.				Percent of Domina	nt Snacia	e		
	%			That Are OBL, FAC	W, or FA	Č:	100.0 %	(A/B)
Sapling/Shrub Stratum					analari en an Indona II. Analar			10
1	<u>10</u>			Prevalence Index	worksne	et:		
2.				Total % Cover	of:	Mu	Itiply by:	
3.				OBL species	75	x 1 =	75	
4.			20- 21-	FACW species	5	x 2 =	10	
5.	°			FAC species	20	x 3 =	60	
Total Cover	: %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
¹ · Plagiobothrys stipitatus	30	Yes	OBL	Column Totals:	100	(A)	145	(B)
² Lolium multiflorum	20	Yes	FAC		100			
³ . <i>Eleocharis macrostachya</i>	15	Yes	OBL	Prevalence Ir	idex = B/	/A =	1.45	
4. Lasthinia fremontii	15	Yes	OBL	Hydrophytic Vege	tation In	dicators:		
5. Downingia bicornuta	5		OBL	🗙 Dominance Te	st is >50%	%		
6. Juncus buffonius	5		FACW	Prevalence Inc	lex is ≤3.0	0 ¹		
7. Psilocarphus brevissimus	10		OBL	Morphological	Adaptatic	ons¹ (Pro∖	ride support	ing
8.			52	- data in Ren	arks or o	n a sepa	rate sneet}	
Total Cover	100%	5		Problematic Hy	/drophytic	c Vegetat	ion' (Explaii	1}
Woody Vine Stratum	100 /0							~
1.				¹ Indicators of hydri	c soil and	d wetland	hydrology	must
2.				be present.				
Total Cover	: %		22 22	Hydrophytic				
% Bare Ground in Herb Stratum % % Cover	of Biotic C	miet	07	Vegetation Present?	Voc G	No	C .	
			/0	116361111	169 (N.		
Remarks:								

Depth	Matrix	Matrix Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³ Remarks			
0-6	7.5YR 3/4	98	7.5YR 5/8	2	C	M	clay loam w/ sand			
		·								
¹ Type: C= ³ Soil Textu Hydric Soil	Concentration, D=Dep res: Clay, Silty Clay, S Indicators: (Applicab	letion, RI Sandy Cla	//=Reduced Matrix. ay, Loam, Sandy Clay I	² Locatio Loam, S noted.)	on: PL=Por andy Loan	e Lining, F 1, Clay Lo	RC=Root Channel, M=Matrix. am, Silty Clay Loam, Silt Loam, Silt, Loamy Sand Indicators for Problematic Hydric Soils ⁴ :	l, Sand.		
Histos	ol (A1) Eninedon (A2)		Sandy Redox	(S5) triv (S6)	Ň		1 cm Muck (A9) (LRR C)			
Black I	Histic (A3)		Loamy Muck	y Mine	ral (F1)		Reduced Vertic (F18)			
Hydrog	gen Sulfide (A4)		Loamy Gley	ed Matr	ix (F2)		Red Parent Material (TF2)			
Stratifi	ed Layers (A5) (LRR (C)	Depleted Ma	atrix (F3)		X Other (Explain in Remarks)			
1 cm N	/luck (A9) (LRR D)		Redox Dark	Surface	ə (F6)					
Deplet	ed Below Dark Surfac	ə (A11)	Depleted Da	rk Surfa	ace (F7)					
	Dark Surface (A12)		Redox Depr	essions	(F8)		4			
Sandy	Mucky Mineral (S1)		X Vernal Pools	s (F9)			indicators of hydrophytic vegetation and			
Restrictive	e Laver (if present):						weitand hydrology must be present.			
Type: H	fardnan									
Denth (i	inches): 6						Hydric Soil Present? Yes 🗭 No 🤇	-		
Romarke:	Hudric soils assume	d due te	inundation and pro	conco	FEACW	and OR	L hydronhytes			
Tomano.	riyune sons assund		munuation and pre	SCHOO	JITAUW	and OD	L nyutopnyuts			

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) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Saturation (A3) Aquatic Invertebrates (B13)	
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
X Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C	C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)		Crayfish Burrows (C8)
X 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):	
Water Table Present? Yes (No (Depth (inches):	
Saturation Present? Yes C No (Depth (inches): Wetland	Hydrology Present? Yes 🔎 No 🤇
Describe Recorded Data (stream dauge monitorin	a well aerial photos previous inspections) if av	ailable
Aerial from CaSIL. April 2004	g won, donar priotod, providad inspositorio), ir avi	
Remarks:		

Project/Site: PG&E Line 407(East)	City/County:Placer/Sutt	er/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point:	W 148-149e	
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Rang	ge:Please see Locatio	n Map for all S	ec,Town,Range	
Landform (hillslope, terrace, etc.):	Local relief (concave, co	onvex, none):None	Sle	ope (%): 0	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Date	um:WGS84	
Soil Map Unit Name: Cometa-Fiddyment Complex 1-5% slopes		NWI classific	cation: Vernal Po	ool	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🍙 👘 No 🦳	(If no, explain in R	lemarks.)		
Are Vegetation Soil or Hydrology significantly	/ disturbed? Are "N	ormal Circumstances" p	oresent? Yes 🌘	No (
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If nee	ded, 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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes	No (
Remarks:						

1992 Settlert ER ADALD 191 201900 191	Absolute	Dominant	Indicator	Dominance Test works	heet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Spe	ecies		
1				That Are OBL, FACW, or	FAC:	2	(A)
2.				Total Number of Domina	nt		
3.				Species Across All Strata	1:	2	(B)
4.				- Developed of Developed One		1,200	4-04 90
	%	0 4	H.	That Are OBL, FACW, or	FAC:	100.0%	(A/B)
Sapling/Shrub Stratum				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		100.0 /0	(* = =)
1.			2	Prevalence Index works	sheet:		
2.				Total % Cover of:	<u> </u>	/lultiply by:	
3.	-0			OBL species 3() x1=	30	
4.		-		FACW species 14	; x 2 =	30	
5.	8	2		FAC species 55	; x 3 =	165	
Total Cover	: %			FACU species	x 4 =	0	
Herb Stratum				UPL species	x 5 =	0	
¹ .Hordeum marinum ssp. gussoneanum	30	Yes	FAC	Column Totals: 10	0 (A)	225	(B)
² .Lolium multiflorum	25	Yes	FAC				
³ .Deschampsia danthonoides	15	-	FACW	Prevalence Index :	= B/A =	2.25	
⁴ .Lasthinia fremontii	15		OBL	Hydrophytic Vegetation	Indicator	'S'	
5. Plagiobothrys stipitatus	15		OBL	🛛 🗙 Dominance Test is >	50%		
6.	÷			Prevalence Index is	≤3.0 ¹		
7.		-	29	Morphological Adapt	ations ¹ (Pr	ovide support	ing
8.	8			- data in Remarks	or on a sep	parate sheet)	
Total Cover	100%			Problematic Hydroph	iytic Veget	ation' (Explai	n)
Woody Vine Stratum	100 %						
1.				¹ Indicators of hydric soil	and wetla	nd hydrology	must
2.				be present.			
 Total Cover	: %	1 1	31	Hydrophytic			
% Bare Ground in Herb Stratum% % Cover	r of Biotic C	Crust	%	Present? Yes	•	No (
Remarks:		<i>b/</i>	15	1			

Depth	Matrix	Redox Features	and the second	24	
inches)	Color (moist) %	Color (moist)%Type1 _ L	<u>oc²</u> 	Texture ³	Remarks
	Concentration, D=Depletion,	RM=Reduced Matrix. ² Location: PL=Pore Lin	ing, RC=F	Root Channel, M=M Silty Clay Loam Silt	latrix. t Loam Silt Loamy Sand Sar
ydric Soil I	ndicators: (Applicable to al	LRRs, unless otherwise noted.)	-,,	Indicators for Probl	lematic Hydric Soils
Histosol Histic E Black H Hydroge Stratifie 1 cm M Deplete Thick D	I (A1) pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) (LRR C) uck (A9) (LRR D) id Below Dark Surface (A11 ark Surface (A12)	 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 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain	0) (LRR C) 10) (LRR B) c (F18) aterial (TF2) in Remarks)
Sandy M	Mucky Mineral (S1) Gleyed Matrix (S4)	Vernal Pools (F9)		⁴ Indicators of hydro wetland hydrolog	pphytic vegetation and gy must be present.
Restrictive	Layer (if present):				
Type:					
Depth (in	iches):		ł	Hydric Soil Present	t? Yes 🕡 No 🤇
(emarks: N	o soil sample was taken	however, oxidized thizospheres and redox	x features	s were observed v	within the top layer of soil.
YDROLO	OGY				
etland Hy	drology Indicators:	6		Secondary Inc	dicators (2 or more required)
rimary Indi	cators (any one indicator is	sufficient)		_ Water Ma	rks (B1) (Riverine)
Surface	Water (A1)	Salt Crust (B11)		Sediment	Deposits (B2) (Riverine)
_ High Wa	ater Table (A2)	Biotic Crust (B12)		Drift Depo	osits (B3) (Riverine)
Saturati	on (A3)	Aquatic Invertebrates (B13)		Drainage	Patterns (B10)
UWater N	/larks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)			on Water Table (C2)
I Sedime	nt Deposits (B2) (Nonriveri	ne) X Oxidized Rhizospheres along Livir	ng Roots ((C3) Thin Muck	K Surface (C7)

Wetland Hydrology Indicate	ors:					Se	condary Indicators (2 or more required)	
Primary Indicators (any one in	ndicator is su	ufficier	nt)		20		Water Marks (B1) (Riverine)	
Surface Water (A1)				Salt Crust (B11)			Sediment Deposits (B2) (Riverine)	
High Water Table (A2) Biotic Crust (B12)				Drift Deposits (B3) (Riverine)				
Saturation (A3)	turation (A3) Aquatic Invertebrates (B13)				Drainage Patterns (B10)			
Water Marks (B1) (Nonriverine)						Dry-Season Water Table (C2)		
X Sediment Deposits (B2)	(Nonriverin	e)	X	Oxidized Rhizospheres along Livi	ng Roots (C3)		Thin Muck Surface (C7)	
Drift Deposits (B3) (Nonr	riverine)			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 Aer	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? (includes capillary fringe)	Yes (No	•	Depth (inches):	Wetland Hyd	drol	ogy Present? Yes 💿 No 🤇	
Describe Recorded Data (stre	eam gauge,	monito	oring	well, aerial photos, previous inspec	tions), if availa	ble:		
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Place	er/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point	W 153e	
Investigator(s):Erin Hess, E. Alfieri	Section, Township	Sec,Town,Range			
Landform (hillslope, terrace, etc.):	Local relief (conc	ave, convex, none): <u>None</u>	SI	lope (%):3	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Dat	Datum:WGS84	
Soil Map Unit Name: Cometa-Fiddyment Complex 1-5% slopes		NWI classification: Seasonal Wetland			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌀	No 🦳 🦳 (If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology significantly	disturbed?	Are "Normal Circumstances"	present? Yes (No C	
Are Vegetation Soil or Hydrology naturally pro	oblematic?	(If needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing	sampling poi	nt locations, transects	, important fe	eatures, 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 (
Remarks: This feature was unable	to access, the	refore, interpretat	ion is based on roadside of	bservatio	ns and	l aerial imagery.	Field data
is limited.							

sala senare en añoles es apreso es	Absolute	Dominant	Indicator	Dominance Test w	orksheet				
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominar	nt Species	6			
1.		-		That Are OBL, FAC	W, or FAG	C: 1		(A)	
2.				Total Number of Do	minant				
3.				Species Across All	Strata:	1		(B)	
4.	10 1		eo. M					100.00	
	%		93) -	- Percent of Dominan	t Are OBL_FACW_or FAC'			(Δ/B)	
Sapling/Shrub Stratum					n, or rac	5. 100	.0 %	(,,,,,,)	
1.				Prevalence Index worksheet:					
2.				Total % Cover of: Multiply by:			r by:	_	
3.				OBL species		x 1 =	0		
4.	· · · · ·	-		FACW species	5	x 2 =	10		
5.	č č		<u>127</u>	FAC species	85	x 3 =	255		
Total Cover	. 0/2		<u></u>	FACU species	00	x 4 =	0		
Herb Stratum	. ,,,			UPL species	10	x 5 =	50		
¹ .Lolium multiflorum	75	Yes	FAC	Column Totals:	100	(A)	315	(B)	
2. Rumex crispus	5		FACW		100		10.11 AV 10.		
^{3.} Hordeum marinum ssp. gussoneanum	10		FAC	Prevalence Index = B/A = 3.15					
4. Leontodon taraxacoides	10		UPL	Hydrophytic Vegetation Indicators:					
5.				🗙 Dominance Tes	st is >50%	2			
6.			20	Prevalence Inde	ex is ≤3.0	1			
7.			<u>};;</u>	Morphological A	Adaptation	ns ¹ (Provide :	supporti	ng	
8.			50	- data in Rem	arks or or	n a separate	sheet)		
Total Cover	100.0/		2	Problematic Hy	drophytic	Vegetation ¹	(Explair)	
Woody Vine Stratum	100%								
1.				¹ Indicators of hydric	soil and	wetland hyd	Irology I	must	
2.	······			be present.					
Total Cover	: %	1	59	Hydrophytic					
% Bare Ground in Herb Stratum % % Cover	of Biotic C	Crust	%	Vegetation Present?	Yes (No (
Remarks:		22		1 2.2					

(inches)	Color (moist) %	Cold	or (moist)	%	Type ¹	Loc ²	Textu	re ³ Remarks
								545i
: <u>294</u> 21								
201				. <u></u>	2			
		1255 3-1						
¹ Type: C=Cond ³ Soil Toxturos:	centration, D=Depletion, RM=	Reduc	ed Matrix.	² Location	n: PL=Pore	Lining, RC=F	Root C	hannel, M=Matrix. lav Loom, Silt Loom, Silt Loomy Sand, Sand
Hydric Soil Indi	cators: (Applicable to all I R	Rs unle	ss otherwise	noted)	nuy Luan,		Indica	tors for Problematic Hydric Soils ⁴
Histosol (A	1)		Sandy Redo	x (S5)				cm Muck (A9) (LRR C)
Histic Epipe	edon (A2)		Stripped Ma	atrix (S6)			2	cm Muck (A10) (LRR B)
Black Histic	c (A3)		Loamy Muc	ky Minera	l (F1)		- R	educed Vertic (F18)
Hydrogen S	Sulfide (A4)		Loamy Gley	/ed Matrix	(F2)		- R	ed Parent Material (TF2)
Stratified L	ayers (A5) (LRR C)		Depleted M	atrix (F3)			× o	ther (Explain in Remarks)
1 cm Muck	(A9) (LRR D)		Redox Dark	Surface	(F6)			
Depleted B	elow Dark Surface (A11)		Depleted D	ark Surfac	e (F7)			
Thick Dark	Surface (A12)	X	Redox Dep	ressions (F8)		4	
Sandy Muc	ky Mineral (S1)		Vernal Poo	s (F9)		1	"Indica	ators of hydrophytic vegetation and
Sandy Gley	ved Matrix (S4)						we	tiand hydrology must be present.
Turnel	ver (in present):							
Type.							م ايرام درا.	Sail Dragant2 Vac C Na C
Depth (Inche	98). 4 - 1 1						туапс	Soli Present? Tes (NO (
Remarks. IS IIS	ated on the National Hydr	IC 5011	S LISI					
IYDROLOG	Y							
Wetland Hydro	ology Indicators:						S	Secondary Indicators (2 or more required)
Primary Indicate	ors (any one indicator is suffi	cient)					<u></u>	
								Water Marks (B1) (Riverine)
Surface Wa	ater (A1)	Ĺ	Salt Crust	(B11)			-	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Surface Water	ater (A1) ⁻ Table (A2)		Salt Crust	(B11) st (B12)				Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Surface Wa	ater (A1) [.] Table (A2) (A3)		Salt Crust Biotic Crus Aquatic In	(B11) st (B12) vertebrate	es (B13)			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10)
Surface Wa High Water Saturation	ater (A1) [•] Table (A2) (A3) ‹s (B1) (Nonriverine)		Salt Crust Biotic Crus Aquatic In Hydrogen	(B11) st (B12) vertebrate Sulfide O	es (B13) dor (C1)			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Surface Wa High Water Saturation Water Mark	ater (A1) ⁻ Table (A2) (A3) (s (B1) (Nonriverine) Deposits (B2) (Nonriverine)		Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebrate Sulfide O Rhizosphe	es (B13) dor (C1) res along l	iving Roots (- [[[[[]	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Crainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
Surface Wa High Water Saturation Water Mari Sediment I Drift Depos	ater (A1) [•] Table (A2) (A3) (s (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Nonriverine)		Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce	s (B13) dor (C1) res along l ed Iron (C4	_iving Roots ()	_ [[[[[[[[[[[Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Surface Wa High Water Saturation Water Mari Sediment D Drift Depos	ater (A1) [•] Table (A2) (A3) (s (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Nonriverine) il Cracks (B6)		Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Irc	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti	os (B13) dor (C1) res along l ad Iron (C4 on in Plow	Living Roots () ed Soils (C6)	_ [[[(C3)] [[]	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Surface Wa High Water Saturation Water Mark Sediment I Drift Depos Surface So	ater (A1) [•] Table (A2) (A3) (ss (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Nonriverine) sil Cracks (B6) Visible on Aerial Imagery (B [*])		Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti blain in Re	es (B13) dor (C1) res along I ed Iron (C4 on in Plow emarks)	Living Roots () ed Soils (C6)	- [[: [: [: [: [: [: [: [: [: [: [: [: [:	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Surface Wa High Water Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain	ater (A1) [•] Table (A2) (A3) (s (B1) (Nonriverine) Deposits (B2) (Nonriverine) its (B3) (Nonriverine) il Cracks (B6) Visible on Aerial Imagery (B [*] ned Leaves (B9)	7)	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti blain in Re	es (B13) dor (C1) res along I ed Iron (C4 on in Plow emarks)	Living Roots () ed Soils (C6)	- [[: [: [: [: [: [: [: [: [: [: [: [: [:	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Surface So Inundation Water-Stair Field Observat	ater (A1) • Table (A2) (A3) (A5 (B1) (Nonriverine) Deposits (B2) (Nonriverine) its (B3) (Nonriverine) ill Cracks (B6) Visible on Aerial Imagery (B ² ned Leaves (B9) tions:		Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce of Reduce on Reducti olain in Re	os (B13) dor (C1) res along l ad Iron (C4 on in Plow emarks)	-iving Roots () ed Soils (C6)	- [[] [] [] [] []	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Water High Water Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stain Field Observat	ater (A1) Table (A2) (A3) (S (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Nonriverine) il Cracks (B6) Visible on Aerial Imagery (B' ned Leaves (B9) tions: Present? Yes (/) 	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp Depth (in	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti blain in Re ches):	es (B13) dor (C1) res along l ad Iron (C4 on in Plow emarks)	iving Roots () ed Soils (C6)	- [[[[] [] [] []	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Water High Water Saturation Water Mark Sediment I Drift Depos Surface So Inundation Water-Stair Field Observat Surface Water I Water Table Pro	ater (A1) Table (A2) (A3) (A3) Deposits (B2) (Nonriverine) Dits (B3) (Nonriverine) Dits (B	7) No (• No (•	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized P Presence Recent Irc Other (Exp Depth (in Depth (in	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti blain in Re ches):	es (B13) dor (C1) res along I ad Iron (C4 on in Plow emarks)	Living Roots () ed Soils (C6)	[[C3) [[[Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Marks (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

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

Remarks:

6

No C

Wetland Hydrology Present? Yes

Project/Site: PG&E Line 407(East)	_ City/County:Placer	/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 154e		
Investigator(s):Erin Hess (USACE), Elena Alfieri	Section, Township,	Range:Please see Locatio	n Map for all Sec, Town, Range		
Landform (hillslope, terrace, etc.):	Local relief (conca	ve, convex, none): <u>None</u>	Slope (%):1		
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	45'03.51"N Long: 121 30'05.56" W Datum: We			
Soil Map Unit Name: Cometa-Fiddyment Complex, 1-5% slopes	3	NWI classific	ation: Seasonal Wetland		
Are climatic / hydrologic conditions on the site typical for this time of y	rear?Yes 🕞 👘 N	lo 🥂 👘 (If no, explain in F	.emarks.)		
Are Vegetation Soil or Hydrology significantl	y disturbed? A	Are "Normal Circumstances"	present? Yes 🌘 No 🤇		
Are Vegetation Soil or Hydrology naturally pr	roblematic? (lf 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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🏈	within a Wetland?	Yes	No (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test w	vorksheet	:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	nt Species	8			
1				That Are OBL, FAC	W, or FA	D:	L	(A)	
2.				Total Number of Do	minant				
3.				Species Across All	Strata:		1	(B)	
4.		The l		- Demonst of Deminor	ot On a sign			14-14 KP	
	%	0 .	5	That Are OBL. FAC	W. or FA	C: 10	0.0%	(A/B)	
Sapling/Shrub Stratum					alere Alerenie - Alere	10	0.070	√ - − /	
1		22	2	Prevalence Index	workshee	et:			
2.				Total % Cover	of:	Multip	ly by:	-	
3.	-0			OBL species		x 1 =	0		
4.	8 			FACW species	5	x 2 =	10		
5.	2 <u> </u>			FAC species	85	x 3 =	255		
Total Cover	: %			FACU species		x 4 =	0		
Herb Stratum				UPL species	10	x 5 =	50		
¹ Lolium multiflorum	80	Yes	FAC	Column Totals:	100	(A)	315	(B)	
2.Bromus hordeaceous	10		UPL			-			
^{3.} Juncus ssp.	5		FACW	Prevalence Index = B/A = 3.15					
⁴ .Hordeum marinum ssp. gussoneanum	5		FAC	Hydrophytic Vegetation Indicators:					
5.				X Dominance Test is >50%					
6.			ai	Prevalence Inc	lex is ≤3.0	1			
7.			<u>19</u>	Morphological	Adaptatio	ns ¹ (Provide	supporti	ng	
8.	a			data in Rem	harks or or	n a separate	sheet)		
Total Cover	100.0/			Problematic Hy	/drophytic	Vegetation	' (Explair	1)	
Woody Vine Stratum	100 %								
1.				¹ Indicators of hydri	c soil and	wetland hy	/drology	must	
2.				be present.					
Total Cover	: %	i i	a ²	Hydrophytic					
% Bare Ground in Herb Stratum% % Cover	%	Present?	Yes (No (
Remarks:				<u>.</u>					

Depth	Matrix		Redox	Featur	əs				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	emarks
0-6	10YR 3/3	85	10YR 5/8	15	С	М	Sandy clay		
<u></u>				10	-				
					-307			80	
	-24		3	. Q 	-0;				
5v		101 7 0		88		2000		80.	
		2 1						2	
	- 199						·	the state strength	
¹ Type: C=C	Concentration, D=Depl	letion, RM	I=Reduced Matrix.	² Locatio	on: PL=Por	e Lining, R	C=Root Channel, M	∕l=Matrix.	
°Soil Textur	res: Clay, Silty Clay, S	Sandy Cla	y, Loam, Sandy Clay	Loam, S	Sandy Loan	i, Clay Loa	am, Silty Clay Loam	, Silt Loam, Silt, L	oamy Sand, Sand.
Hydric Soil	Indicators: (Applicabl	le to all LF	Rs, unless otherwise	noted.)			Indicators for P	Problematic Hydrid	: Soils:
Histosc	ol (A1)		Sandy Redo	(S5)			1 cm Muck	(A9) (LRR C)	
	pipedon (A2)			itrix (Sb)	} *~! ([]]		2 cm Muck	(A10) (LRR B)	
	nsuc (AS)			ky Miner	'al (E1) iv (E2)			vertic (F 16)	
Stratific	ad Lovers (A5) (LPP (•)	Depleted M	eu Mau atriv (E3	\ \		Other /Evr	lain in Remarks)	
	luck (A9) (I RR D)	*)	Bedox Dark	Surface	/ e (F6)			annin Komanoy	
Deplete	ed Below Dark Surface	e (A11)	Depleted Da	ark Surfa	ace (F7)				
Thick D	Dark Surface (A12)	()	Redox Depr	essions	(F8)				
Sandy	Mucky Mineral (S1)		Vernal Pool	s (F9)			⁴ Indicators of h	ydrophytic vegeta	tion and
Sandy	Gleyed Matrix (S4)						wetland hyd	lrology must be pr	esent.
Restrictive	Layer (if present):								
Type: ha	ardpan								
Depth (ir	nches):6						Hydric Soil Pre	sent? Yes 🛈	No
Remarks:			22				1		* 00000000
IYDROLO	DGY								
Wetland Hy	vdrology Indicators:						Secondar	y Indicators (2 or i	more required)
Primary Ind	icators (any one indica	ator is suf	ficient)				Wate	r Marks (B1) (Riv e	erine)
Surface	e Water (A1)		Salt Crust	(B11)			Sedin	nent Deposits (B2) (Riverine)
🖂 🗍 Hiah W	/ater Table (A2)		Biotic Crus	at (B12)			Drift [Deposits (B3) (Riv	verine)
Saturat	tion (A3)		Aquatic Inv	/ertebra	tes (B13)		🖌 Drain	age Patterns (B1())
└── └── Water I	Marks (B1) (Nonriveri	ine}	Hvdroaen	Sulfide (Ddor (C1)		Drv-S	eason Water Tab	, le (C2)
🔽 Sedime	ent Deposits (B2) (Nor	nriverine		Rhizosph	eres alond	Livina Ro	ots (C3)	Muck Surface (C7)
Drift De	eposits (B3) (Nonriver	rine)	Presence	of Redu	ced Iron (C	4)	Cravf	ish Burrows (C8)	/
Surface	e Soil Cracks (B6)	,	Recent Iro	n Reduc	tion in Ploy	ved Soils (C6) Satur	ation Visible on A	erial Imagery (C9)
Inundat	tion Visible on Aerial li	magerv (I	37) 🗌 Other (Exr	lain in F	Remarks)		, Shallo	ow Aquitard (D3)	5,(,,
Water-	Stained Leaves (B9)	5 7 (1999 (1997) - 1997 (1997) - 1997 (1997) 1997 (1997) - 1997 (1997) - 1997 (1997) - 1997 (1997) - 1997 (1997) (1997) - 1997 (1997) - 1997 (1997) (1997) -		FAC-	Neutral Test (D5)	
Field Obse	rvations:								
Surface Wa	ter Present? V	$\sim $	No 🍙 Denth (in	hae)					
Watan Tabl			No (C Depth (in	shee)					
vvater rapit		es (ines).					
Saturation F	Present? You anillary fringe)	es (No (Depth (Inc	cnes):		Wet	and Hydrology Pr	esent? Yes (
Describe Re	ecorded Data (stream	gauge, m	onitoring well, aerial p	photos, p	previous ins	pections),	if available:		and the names of the
Aerial fror	n CaSIL, April 200	14	arrandon and an 🤐 and and a statistical statis			an and an and the second of the second s			
Remarks:	 A second sec second second sec								
orriorito.									

Project/Site: PG&E Line 407(East)	City/County:Placer	/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 155e		
Investigator(s): Erin Hess (USACE), Elena Alfieri	Section, Township,	Range:Please see Locatio	n Map for all Sec, Town, Range		
Landform (hillslope, terrace, etc.):	Local relief (conca	ve, convex, none):None	Slope (%):1		
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84		
Soil Map Unit Name: San Joaquin Complex, 1-5% slopes		NWI classific	ation: Seasonal wetland		
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌔 🛛 N	lo 🦳 🦳 (If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology significantly	disturbed? A	are "Normal Circumstances" p	present? Yes 🏟 🛛 No 🤇		
Are Vegetation Soil or Hydrology naturally pro	oblematic? (I	lf 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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes	No (
Remarks:						

and where the states of terms we	Absolute	Dominant	Indicator	Dominance Test w	orksheet				
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominar	nt Species	1			
1.		54 <u>1</u>		That Are OBL, FAC	W, or FAC	C: (2	(A)	
2.				Total Number of Do	minant				
3.				Species Across All	Strata:		2	(B)	
4.	10	10	a.					122 22	
	%			 Percent of Dominar That Are OBL_EAC 	It Species	2 10	0.0.0/	(Δ/B)	
Sapling/Shrub Stratum				matrice ODE, 1710	, or i i i c	10	0.0 %	(~~)	
1.				Prevalence Index worksheet:					
2.		· · · · · · · · · · · · · · · · · · ·		Total % Cover of: Multiply b			ly by:	_	
3.				OBL species		x 1 =	0		
4.			-	FACW species	10	x 2 =	20		
5.	÷	8	2	FAC species	65	x 3 =	195		
Total Cover	- 0/		<u> </u>	FACU species	00	x 4 =	0		
Herb Stratum				UPL species	15	x 5 =	75		
¹ .Lolium multiflorum	40	Yes	FAC	Column Totals:	90	(A)	290	(B)	
² .Hordeum marinum ssp. gussoneanum	25	Yes	FAC						
³ .Leontodon taraxacoides	15	-	UPL	Prevalence Index = B/A = 3.22					
4. Rumex crispus	10		FACW	Hydrophytic Vegetation Indicators:					
5.				X Dominance Test is >50%					
6.	2 · · · ·		N	Prevalence Ind	ex is ≤3.0 ¹	1			
7.				Morphological /	Adaptation	ns ¹ (Provide	e supporti	ng	
8.	8		5)	- data in Rem	arks or on	i a separate	e sheet)	22	
Total Cover	. 00 %	5	3	Problematic Hy	drophytic	Vegetation	' (Explair)	
Woody Vine Stratum	30 70								
1.				¹ Indicators of hydrid	soil and	wetland h	/drology	must	
2.	*			be present.					
Total Cover	: %			Hydrophytic					
% Bare Ground in Herb Stratum $10~\%$ % Cover	%	Present?	Yes (No (•				
Remarks:		<i>22</i>	15						

Depth	Matrix		Redo	x Featur	es		and the second second second second	units and included and an an
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
0-5	7.5YR 3/3	90	2.5YR 4/8	10	С	Μ	silty clay	
51	- 2012		9					
6			0.					
		-	9 <u></u>				<u> </u>	
6	- 2007	2010	8	62			i.	tala a
le contra c							A A	
1Tumor 0-0		Lation Db	- De alue e al Matrix	21	m. DI – Dan	Lining D(De at Ohan	unal RA-RAntuise
³ Soil Textur	res: Clay, Silty Clay, S	Sandy Cla	i=Reduced Matrix. y, Loam, Sandy Clay	Localic Loam, S	Sandy Loan	a Lining, Ro n, Clay Loar	n, Silty Clay I	Loam, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicab	le to all LF	Rs, unless otherwise	noted.)			Indicators	for Problematic Hydric Soils
Histoso	ol (A1)		Sandy Redo	x (S5)			1 cm	Muck (A9) (LRR C)
Histic E	Epipedon (A2)		Stripped Ma	atrix (S6))		2 cm	Muck (A10) (LRR B)
Black H	Histic (A3)		Loamy Muc	ky Mine	ral (F1)		Redu	iced Vertic (F18)
Hydrog	gen Sulfide (A4)	->>	Loamy Gley	/ed Matr	1x (F2)		Red H	Parent Material (TF2)
	au Layers (AS) (LRR) //uck (A9) (LRR D)	-)	Bedox Dark	Surface) a (F6)			
Deplete	ed Below Dark Surfac	e (A11)	Depleted D	ark Surfa	ace (F7)			
Thick E	Dark Surface (A12)		🗙 Redox Dep	ressions	(F8)			
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)			⁴ Indicators	s of hydrophytic vegetation and
Sandy	Gleyed Matrix (S4)		, <u> </u>				wetlan	d hydrology must be present.
Restrictive	e Layer (if present):							
Type: H	ardpan							
Depth (ii	nches): 5						Hydric Soi	il Present? Yes 间 🛛 No 🤇
IYDROLO	DGY							
Wetland H	ydrology Indicators:						Seco	ondary Indicators (2 or more required)
Primary Ind	licators (any one indic	ator is suf	ficient)				<u> </u>	Water Marks (B1) (Riverine)
Surface	e Water (A1)		Salt Crust	(B11)			— —	Sediment Deposits (B2) (Riverine)
🔄 High W	/ater Table (A2)		Biotic Cru	st (B12)				Drift Deposits (B3) (Riverine)
Saturat	tion (A3)		Aquatic In	vertebra	tes (B13)		X	Drainage Patterns (B10)
Water	Marks (B1) (Nonriver	ine)	Hydrogen	Sulfide (Odor (C1)			Dry-Season Water Table (C2)
X Sedime	ent Deposits (B2) (No i	nriverine)	X Oxidized F	Rhizosph	neres along	Living Roo	ts (C3)	Thin Muck Surface (C7)
Drift De	eposits (B3) (Nonrive i	rine)	Presence	of Redu	ced Iron (C	4)		Crayfish Burrows (C8)
X Surface	e Soil Cracks (B6)		Recent Irc	n Reduc	tion in Plov	ved Soils (C	26) 🗌 🤅	Saturation Visible on Aerial Imagery (C9)
Inunda [®]	tion Visible on Aerial I	magery (E	37) Other (Exp	olain in F	Remarks)			Shallow Aquitard (D3)
Vvater-	Stained Leaves (B9)							FAC-Neutral Test (D5)
Field Obse	ervations:	~						
Surface Wa	ater Present? Y	es (No (Depth (in	ches):				
Water Table	e Present? Y	es (No (e Depth (in	ches):				
Saturation I (includes ca	Present? Y apillary fringe) ecorded Data (stream	es (No 🕞 Depth (in	ches):	arevious in	Wetla	and Hydrolog	gy Present? Yes 🛈 No 🤇
Aerial from	m CaSIL, April 200	уцау с , п)4	aendi wen, aendi	priotos, j		, poouoria <i>j</i> , 1	a available.	
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer/S	Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W	167e	
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township, F	ange:Please see Locatio	on Map for all Sec, T	own,Range	
Landform (hillslope, terrace, etc.):	Local relief (concave	Slope	Slope (%):4		
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum:	WGS84	
Soil Map Unit Name: Xerofluvents		NWI classifi	cation: Vernal Pool	2	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌔 👘 No	C (If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology significantly	/ disturbed? Are	e "Normal Circumstances"	present? Yes 🌘	No (
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If i	needed, explain any answe	ers in Remarks.)		
				2027	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🌘 Yes 🌘	No (No (is the Sampled Area			
Wetland Hydrology Present?	Yes (No C	within a Wetland?	Yes (No (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test v	vorkshee	et:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	nt Specie	S		
1			<u></u>	That Are OBL, FAC	CW, or FA	C:	4	(A)
2.				Total Number of Do	ominant			
3.				Species Across All	Strata:		4	(B)
4.				- Demonst of Demines	nt Onacia			4-52 33
	%			That Are OBL, FAC	CW. or FA	s .C:	100.0%	(A/B)
Sapling/Shrub Stratum				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			100.0 /0	(, = _)
1.			2	Prevalence Index	workshe	et:		
2.				Total % Cover	of:	Mu	ultiply by:	-
3.	-0			OBL species	50	x 1 =	50	
4.				FACW species	10	x 2 =	20	
5.	8	5 <u></u>		FAC species	25	x 3 =	75	
Total Cover	: %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
¹ .Plagiobothrys stipitatus	40	Yes	OBL	Column Totals:	85	(A)	145	(B)
2. Juncus buffoníus	10	Yes	FACW				100-0 (D.10)	
³ . <i>Eleocharis macrostachya</i>	10	Yes	OBL	Prevalence Ir	ndex = B/	'A =	1.71	
4. Lolium multiflorum	25	Yes	FAC	Hydrophytic Vege	tation In	dicators		
5.			2	🖌 🗙 Dominance Te	st is >50%	%		
6.	2		<u>.</u>	Prevalence Inc	dex is ≤3.0	0 ¹		
7.		-		Morphological	Adaptatic	ons ¹ (Pro	vide support	ing
8.	8		5)	- data in Ren	harks or o	n a sepa	rate sheet)	
Total Cover	. 05 0/			Problematic Hy	ydrophytio	c Vegeta	tion' (Explai	n)
Woody Vine Stratum	0.5 70							
1.				¹ Indicators of hydri	c soil and	d wetland	d hydrology	must
2.	*			be present.				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum 15 % % Cover	r of Biotic (Crust	%	Present?	Yes (N	o (
Remarks:		22	15	1				

(inches)		0/	Nouos	reature		1 - 2	T	
05	Color (moist)	<u>%</u> (Color (moist)	%	Type	LOC ²	l exture °	Remarks
0-3	7.5YR 3/4	100			·		clay loam	
5	7.5YR 3/4	95 7.5	YR 5/9	5	<u>C</u>	أ	clay loam	
	840 ⁻			90 	0		та: -	5.9472
	0							
				-72	S			
-				102 - 0			ali	
								- 1920
	19 <mark>-1</mark>				0	. <u></u>	Han 1972 an 1974 an	
¹ Type: C=C	Concentration, D=Dep	letion, RM=Re	duced Matrix.	² Locatio	n: PL=Pore	Lining, RO	C=Root Channe	I, M=Matrix.
Soll Texture	es: Clay, Slity Clay, S	sandy Clay, Lo	am, Sandy Clay	Loam, S	andy Loam	, Clay Loar	m, Slity Clay Lo	am, Slit Loam, Slit, Loamy Sand, Sand
Hydric Soll I Histosol	ndicators: (Applicabl	le to all LKKS, I	Iniess otherwise	noted.)			Indicators to	r Problematic Hydric Solls:
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm M	uck (A10) (LRR B)
Black H	listic (A3)		Loamy Muc	kv Miner	al (F1)		Reduce	d Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matri	x (F2)		Red Pa	rent Material (TF2)
Stratifie	d Layers (A5) (LRR (C)	Depleted M	atrix (F3)	1		Other (E	Explain in Remarks)
1 cm M	uck (A9) (LRR D)		Redox Dark	Surface	(F6)			
Deplete	d Below Dark Surface	e (A11)	Depleted Da	ark Surfa	(F7)			
Sandy M	ark Surface (A12)		Vernal Pool	essions	(F0)		⁴ Indicators o	f hydronhytic vegetation and
Sandy i	Gleved Matrix (S4)		X Verhar voi	3 (1 3)			wetland h	nydrology must be present.
Restrictive	Layer (if present):							·····
Type:	,							
Denth (in	iches) [,]						Hydric Soil F	Present? Yes 💿 No 🤇
Remarks:							-	
YDROLO)GY							
Wetland Hy	drology Indicators:						Second	lary Indicators (2 or more required)
Wetland Hy Primary Indi	drology Indicators: cators (any one indic	ator is sufficier	ıt)				Second	lary Indicators (2 or more required <u>)</u> ater Marks (B1) (Riverine)
Wetland Hy Primary Indi	rdrology Indicators: cators (any one indic Water (A1)	ator is sufficier	t) Salt Crust	(B11)			Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Wetland Hy Primary Indi	rdrology Indicators: cators (any one indic Water (A1) ater Table (A2)	ator is sufficier	t) Salt Crust Biotic Crus	(B11) st (B12)			Second Wa Se Dri	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Wetland Hy Primary Indi Surface High Wa	rdrology Indicators: cators (any one indic Water (A1) ater Table (A2) ion (A3)	ator is sufficier	t) Salt Crust Biotic Crus	(B11) st (B12) vertebrat	es (B13)		<u>Seconc</u> <u> </u>	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
Wetland Hy Primary Indi Surface High Wa Saturati Water N	rdrology Indicators: cators (any one indic Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver	ator is sufficier	t) Salt Crust Biotic Crus Aquatic In Hydrogen	(B11) st (B12) vertebrat Sulfide C	es (B13) Odor (C1)		<u>Second</u> Wa Se Dri Dri Dr.	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Wetland Hy Primary Indi Surface High Wa Saturati Water N X Sedime	rdrology Indicators: cators (any one indic Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver nt Deposits (B2) (Nor	ator is sufficier ine) nriverine)	t) Salt Crust Biotic Crus Aquatic Im Hydrogen X Oxidized F	(B11) st (B12) vertebrat Sulfide C Rhizosph	es (B13) Odor (C1) eres along	Living Roo	Second Wa Se Dri Dri Dri ofs (C3) Th	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De	rdrology Indicators: cators (any one indic Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver nt Deposits (B2) (Nor posits (B3) (Nonriver	ator is sufficier ine) nriverine) rine)	t) Salt Crust Biotic Crus Aquatic Im Hydrogen X Oxidized F Presence	(B11) st (B12) vertebrat Sulfide (Rhizosph of Reduc	es (B13) Ddor (C1) eres along sed Iron (C4	Living Roo)	Second Wa Se Dri Dri Dri Dri Dri Dri Cri	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface	rdrology Indicators: cators (any one indicators) Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver nt Deposits (B2) (Non posits (B3) (Nonriver Soil Cracks (B6)	ator is sufficier ine) nriverine) rine)	t) Salt Crust Biotic Crus Aquatic Im Hydrogen X Oxidized F Presence Recent Iro	(B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc n Reduc	es (B13) Ddor (C1) eres along red Iron (C4	Living Roo) ed Soils (C	Second Wa Se Dri Dri Dri Dri Dri Dri Ca Ca Sa	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundati	rdrology Indicators: cators (any one indic Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver nt Deposits (B2) (Non posits (B3) (Nonriver o Soil Cracks (B6) ion Visible on Aerial I	ator is sufficier ine) nriverine) rine) magery (B7)	t) Salt Crust Biotic Crus Aquatic In Hydrogen X Oxidized F Presence Recent Iro Other (Exp	(B11) st (B12) vertebrat Sulfide C Nizosph of Reduc on Reduc olain in R	es (B13) Odor (C1) eres along ed Iron (C4 tion in Plow emarks)	Living Roo) ed Soils (C	Second Wa Se Dri Dr. Dr. Dr. Dr. Cr. C6) X Sa Sh	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Nurface Inundati Water-S	rdrology Indicators: cators (any one indic Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver nt Deposits (B2) (Non posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial I Stained Leaves (B9)	ator is sufficier ine) nriverine) rine) magery (B7)	t) Salt Crust Biotic Crus Aquatic Im Hydrogen X Oxidized F Presence Recent Iro Other (Exp	(B11) vertebrat Sulfide C Nizosph of Reduc n Reduc plain in R	es (B13))dor (C1) eres along red Iron (C4 tion in Plow emarks)	Living Roo) ied Soils (C	Second Wa Se Dri Dri Dri Dri Dri Cri Cfo) X Sa Sh FA	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) <i>y</i> -Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
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Project/Site: PG&E Line 407(East)	City/County:Placer/Su	tter/Sacramento	Sampling Date: <u>5/5/08</u>		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: γ	V 168e	
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Range: Please see Location Map for all Sec, Town, Ra				
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):None			Slope (%):2	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum	n:WGS84	
Soil Map Unit Name: Xerofluvents		NWI classific	cation: Seasonal W	/etland	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🙃 👘 No 🤇	(If no, explain in R	Remarks.)		
Are Vegetation Soil or Hydrology significantly	disturbed? Are "	Normal Circumstances"	present? Yes 🌘	No	
Are Vegetation Soil or Hydrology naturally pro	oblematic? (If ne	eded, 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 🌘	No (Is the Sampled Area			
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes	No (
Remarks:						

and would be abled or failed to	Absolute	Dominant	Indicator	Dominance Test workshee	et:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Specie	S		
1.		341	9	That Are OBL, FACW, or FA	.C: 2		(A)
2.				Total Number of Dominant			
3.				Species Across All Strata:	2		(B)
4.	107 - C		17 				100 00
	%		5.	 Percent of Dominant Specie That Are OBL_EACW_or EA 	S IC: 100	0.07	(Δ/B)
Sapling/Shrub Stratum				matrice obe, mon, or m	100. 100	1.0 %	(~~)
1.				Prevalence Index workshe	et:		
2.				Total % Cover of:	Multipl	y by:	-
3.				OBL species 60	x 1 =	60	
4.				FACW species 25	x 2 =	50	
5.				FAC species	x 3 =	0	
Total Cover	. %			FACU species	x 4 =	0	
Herb Stratum				UPL species	x 5 =	0	
¹ .Lolium multiflorum	50	Yes	OBL	Column Totals: 85	(A)	110	(B)
² Rumex crispus	20	Yes	FACW				
³ . <i>Phalaris ssp.</i>	5		FACW	Prevalence Index = B/	'A =	1.29	
4. Plagiobothrys stipitatus	10		OBL	Hydrophytic Vegetation In	dicators:		
5.				Dominance Test is >50°	1/0		
6.			n'	Prevalence Index is ≤3.	0 ¹		
7.	-0			Morphological Adaptatio	ons ¹ (Provide	supporti	ng
8.			7	data in Remarks or c	n a separate	sheet)	224
Total Cover	. 95 0/	5	5	Problematic Hydrophytic	: Vegetation'	(Explain	1)
Woody Vine Stratum	0.5 70						
1.				¹ Indicators of hydric soil and	d wetland hy	drology i	must
2.				be present.			
Total Cover	: %	1997		Hydrophytic			
% Bare Ground in Herb Stratum 15 % % Cover	r of Biotic C	Crust	%	Present? Yes (No (Ň	
Remarks:		22	15	ļ			

Profile De	scription: (Describe	to the dep	oth needed to docu	nent the	e indicator o	or confirm	n the absence of indicate	ors.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture ³	Remarks			
0-5	7 5VR 3/4	100			_ <u>.,,,,,</u>		silty loam				
	$\frac{7.5 \text{ TR } 3/4}{7.5 \text{ VP } 3/4}$	05	7 5VP 5/0	5	<u>с</u>	c	silty clay loam	;			
	<u></u>	95	7.51K 5/9		<u> </u>						
12							10				
		· · · · · · · · · · · · · · · · · · ·									
								;			
							u				
¹ Type: C=	Concentration, D=Depl	letion, RM	=Reduced Matrix.	² Locatio	on: PL=Pore	Lining, R	C=Root Channel, M=Matr	x.			
Soil Textu	res: Clay, Silty Clay, S	Sandy Clay	/, Loam, Sandy Clay	Loam, S	Sandy Loam	, Clay Loa	am, Silty Clay Loam, Silt Lo	bam, Silt, Loamy Sand, Sand.			
Hydric Soll	Indicators: (Applicabl	le to all LR	Rs, unless otherwise	e noted.)			Indicators for Problem	RR C)			
Histic I	Epipedon (A2)		Stripped Ma	atrix (S6)	}		2 cm Muck (A10)	(LRR B)			
Black I	Histic (A3)		Loamy Muc	ky Mine	, ral (F1)		Reduced Vertic (F	-18)			
Hydrog	gen Sulfide (A4)		Loamy Gley	ed Matr	ix (F2)		Red Parent Mater	ial (TF2)			
Stratifi	ed Layers (A5) (LRR C	C)	Depleted M	atrix (F3)		X Other (Explain in	Remarks)			
1 cm N	/luck (A9) (LRR D)	. (Redox Dark	C Surface	e (F6)						
	ed Below Dark Surface	e (A11)	Redex Depleted D	ark Surta	ace (F7)						
Sandy	Mucky Mineral (S1)		Vernal Pool	ls (F9)	(10)		⁴ Indicators of hydroph	vtic vegetation and			
Sandy	Gleyed Matrix (S4)			()			wetland hydrology	must be present.			
Restrictive	e Layer (if present):										
Type:											
Depth (i	nches):		736				Hydric Soil Present?	Yes 💽 🛛 No 🤇			
Remarks:]	Flood plain						4)-				
HYDROL	OGY										
Wetland H	vdrology Indicators:						Secondary Indica	tors (2 or more required)			
Primary Inc	dicators (any one indica	ator is suff	icient)				Water Marks	(B1) (Riverine)			
Surfac	e Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Riverine)				
High V	Vater Table (A2)		X Biotic Cru	st (B12)			Drift Deposits (B3) (Riverine)				
Satura	tion (A3)		Aquatic In	vertebra	tes (B13)		Drainage Patterns (B10)				
Water	Marks (B1) (Nonriveri	ine)	Hydrogen	Sulfide	Odor (C1)		Dry-Season	Water Table (C2)			
Sedim	ent Deposits (B2) (No r	nriverine)	X Oxidized F	Rhizosph	neres along	Living Ro	ots (C3) 📃 Thin Muck S	urface (C7)			
Drift D	eposits (B3) (Nonriver	rine)	Presence	of Redu	ced Iron (C4)	Crayfish Bur	rows (C8)			
X Surfac	e Soil Cracks (B6)		Recent Irc	n Reduc	tion in Plow	ed Soils ((C6) Saturation V	isible on Aerial Imagery (C9)			
X Inunda	ition Visible on Aerial I	magery (B	7) Other (Exp	olain in F	Remarks)		Shallow Aqu	itard (D3)			
Field Obse	-Stained Leaves (B9)						FAC-Neutral	Test (D5)			
Surface Wa	ater Present? Y	es C	No 🍙 Denth (in	ches);							
Water Tabl	a Present?		No C Depth (in	ches)							
Saturation	Present?		No (Depth (in	chael.							
(includes c	apillary fringe)	es (NO (Depti (unes <i>j</i>		Wet	land Hydrology Present?	Yes 🛈 No 🤇			
Describe R	ecorded Data (stream	gauge, m	onitoring well, aerial	photos, p	previous ins	oections),	if available:				
Aerial fro	m CaSIL, April 200	'4									
Remarks:											
Project/Site: PG&E Line 407(East)	_ City/County:Placer	r/Sutter/Sacramento	Sampling Date: 3/3/08								
-----------------------------------------------------------------------------	----------------------	-------------------------------	--------------------------------	--	--						
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 172 e								
Investigator(s):Erin Hess (USACE), Elena Alfieri	Section, Township	, Range:Please see Locatio	n Map for all Sec, Town, Range								
Landform (hillslope, terrace, etc.):	Local relief (conca	ave, convex, none):None	Slope (%):1								
Subregion (LRR):C - Mediterranean California Lat: 38	3 45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84								
Soil Map Unit Name: San Joaquin Complex, 1-5% slopes		NWI classific	ation: Seasonal Wetland								
Are climatic / hydrologic conditions on the site typical for this time of y	/ear?Yes 🌔 🛛 N	No 🦳 🦳 (If no, explain in R	.emarks.)								
Are Vegetation Soil or Hydrology significantl	y disturbed?	Are "Normal Circumstances" p	present? Yes 🌘 No 🤇								
Are Vegetation Soil or Hydrology naturally p	roblematic? ((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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🏈	within a Wetland?	Yes	No (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test w	orkshee	t:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominar	nt Specie:	S		
1		341		That Are OBL, FAC	W, or FA	C:	3	(A)
2.				Total Number of Do	minant			
3.	19. D		»	Species Across All	Strata:		4	(B)
4.				Boreant of Dominor	+ Spacia			1-11 Kr
	%		10.	That Are OBL, FAC	W, or FA	, C: 7	50%	(A/B)
Sapling/Shrub Stratum								· · /
1	101 A		<u>19.</u>	Prevalence Index v	workshee	et:		
2.				Total % Cover	of:	Multip	bly by:	72
3.				OBL species	20	x 1 =	20	
4.			<u></u>	FACW species	20	x 2 =	40	
5.				FAC species	45	x 3 =	135	
Total Cove	. %			FACU species		x 4 =	0	
Herb Stratum				UPL species	15	x 5 =	75	
¹ .Juncus effusus	20	Yes	OBL.	Column Totals:	100	(A)	270	(B)
² .Plantago lanceolata	30	Yes	FAC					
³ .Salix ssp.	10		FACW	Prevalence In	dex = B/	A =	2.70	
4. Rumex crispus	10		FACW	Hydrophytic Veget	tation Inc	licators:		
5. Bromus hordeaceous	15	Yes	UPL	X Dominance Tes	st is >50%	0		
6. Lolium multiflorum	15	Yes	FAC	Prevalence Ind	ex is ≤3.0)1		
7.				Morphological /	Adaptatio	ns¹ (Provid	e support	ng
8.	8		50. 	- data in Rem	arks or o	n a separat	e sneet)	3
Total Cover	100%	5.			aropnytic	vegetatior	1 (Explain	1}
Woody Vine Stratum	10070				52 S		50 TE	~
1		<u></u>	222	Indicators of hydric	c soil and	l wetland h	ydrology	must
2				be present.				
Total Cover	r: %			Hydrophytic				
% Bare Ground in Herb Stratum% % Cover	r of Biotic C	Crust	%	Vegetation Present?	Yes (No (<u>_</u>	
Remarks:				1				

	Matrix		Red	ox Feature:	5			
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
	- 2					·		
	2417							
		-1.1 <u>-</u>				19 77 - 1 9		
					a	(
						e <u>er</u>		
						6 		- GL-
	2.5							
11					THE NET THE PARTY	. <u></u>	5053 56 55 MTR 75	
Type: C=0	Concentration, D=Dep	oletion, RM=R	educed Matrix.	² Locatior	n: PL=Pore	Elining, RC=	Root Channel	M=Matrix.
Soli Textur	es: Clay, Silty Clay,	Sandy Clay, L	oam, Sandy Cia	y Loam, Sa	indy Loam	, Clay Loam	, Slity Clay Loa	m, Slit Loam, Slit, Loamy Sand, Sand
Histose	Indicators: (Applicat	Ne to all LKKS	, unless otherwis	se noted.)			Indicators for	ck (A9) (I RR C)
Histic E	Epipedon (A2)		Stripped N	Aatrix (S6)			2 cm Mu	ck (A10) (LRR B)
Black H	listic (A3)		Loamy Mu	ucky Minera	ıl (F1)		Reduced	Vertic (F18)
Hydrog	en Sulfide (A4)		Loamy Gl	eyed Matrix	: (F2)		Red Pare	ent Material (TF2)
Stratifie	ed Layers (A5) (LRR	C)	Depleted	Matrix (F3)	(Other (E	xplain in Remarks)
1 cm M	luck (A9) (LRR D) ad Balaw Dark Surfac	o (A11)	Redox Da	rk Surface	(F6) xa (E7)			
Depieu	ark Surface (A12)	e (ATT)		nressions (ле (Г7) F8)			
Sandv	Mucky Mineral (S1)		Vernal Po	ols (F9)	10)		⁴ Indicators of	hvdrophytic vegetation and
Sandy	Gleyed Matrix (S4)			X J			wetland h	ydrology must be present.
Restrictive	Layer (if present):							
Type:								
Depth (i	nches):						Hydric Soil P	resent? Yes 💽 🛛 No 🤇
YDROLO	DGY							
YDROL()GY ydrology Indicators:						Seconda	ary Indicators (2 or more required)
YDROLO Wetland Hy Primary Ind)GY ydrology Indicators: icators (any one indic	ator is sufficie	ent)				Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
YDROL(Wetland H Primary Ind)GY ydrology Indicators: icators (any one indic e Water (A1)	ator is sufficie	ent)	st (B11)			Seconda Wa Sec	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine)
YDROL(Wetland H Primary Ind X Surface High W	DGY vdrology Indicators: icators (any one indic e Water (A1) 'ater Table (A2)	ator is sufficie	ent) Salt Crus	st (B11) ust (B12)			Seconda Wa Sec Drif	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
YDROLO Wetland Hy Primary Ind Surface High W Satura	DGY ydrology Indicators: icators (any one indic e Water (A1) fater Table (A2) ion (A3)	ator is sufficie	ent) Salt Crus Biotic Cr Aquatic I	st (B11) ust (B12) nvertebrate			Seconda Wa Sec Drif Dra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
YDROLO Wetland H Primary Ind X Surfact High W Satura Water	DGY vdrology Indicators: icators (any one indic water (A1) 'ater Table (A2) ion (A3) Marks (B1) (Nonriver	ator is sufficie	ent) Salt Crus Biotic Cr Aquatic I Hydroge	st (B11) ust (B12) nvertebrate n Sulfide O	es (B13) dor (C1)		Seconda War Sec Drif Drif Dra Dry	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
YDROLO Wetland H Primary Ind X Surface High W Satura Vater X Sedime	OGY vdrology Indicators: icators (any one indic water (A1) vater Table (A2) ion (A3) Marks (B1) (Nonrive) ent Deposits (B2) (No	ator is sufficie ine) nriverine)	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	es (B13) dor (C1) res along	Living Roots	Seconda Wa Sec Drif Dra Dry C3) Thir	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7)
YDROLO	DGY ydrology Indicators: icators (any one indic Water (A1) yater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No aposits (B3) (Nonriver)	ine) rine) rine)	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce	es (B13) dor (C1) rres along ed iron (C4	Living Roots	Seconda War Sec Drif Dra Dry . (C3) Thin Cra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8)
YDROLO	DGY ydrology Indicators: icators (any one indic water (A1) /ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6)	ator is sufficie rine) nriverine) rine)	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent In	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reducci ron Reducti	es (B13) dor (C1) res along ed Iron (C4 on in Plov	Living Roots 1) /ed Soils (C6	<u>Seconda</u> <u>Seconda</u> Sec Drif Dra Dry (C3) Thir Cra Sat	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
YDROLO	DGY ydrology Indicators: icators (any one indic water (A1) yater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Steined Leaves (B2)	iator is sufficie ine) nriverine) rine)	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent In Other (E	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reducti xplain in Re	es (B13) dor (C1) ires along ed Iron (C4 on in Plov emarks)	Living Roots }) /ed Soils (C6	War Sec Drif Dra Dry . (C3) Thin Cra 	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3)
YDROLO	DGY vdrology Indicators: icators (any one indic water (A1) vater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) protions:	nriverine) rine) rine) rine)	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti xplain in Re	es (B13) dor (C1) ires along ed Iron (C4 on in Plow emarks)	Living Roots I) ved Soils (C6	Seconda Wa' Sec Drif Dra Dra Dry (C3) Thin Cra 5) Sat Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3) C-Neutral Test (D5)
YDROLO	DGY ydrology Indicators: icators (any one indic Water (A1) 'ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: tar Present?	ator is sufficie rine) nriverine) rine) Imagery (B7)	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti xplain in Re	es (B13) dor (C1) res along ed Iron (C4 on in Plov emarks)	Living Roots }) /ed Soils (C6	Seconda War Sec Drif Dra Dra Dry (C3) Thir Cra ;) Sat Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3) C-Neutral Test (D5)
YDROLO	DGY vdrology Indicators: icators (any one indic Water (A1) Vater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ther Present?	rine) nriverine) rine) lmagery (B7)	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E	st (B11) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti xplain in Re nches):	es (B13) dor (C1) ires along ed Iron (C4 on in Plov emarks)	Living Roots }) /ed Soils (C6	Seconda Wa' Sec Drif Dra Dry (C3) Thin Cra 5) Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3) C-Neutral Test (D5)
YDROLO	DGY vdrology Indicators: icators (any one indic water (A1) vater Table (A2) ion (A3) Warks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: iter Present? Present? Yeresent? Yeresent?	ine) nriverine) rine) lmagery (B7) ées (No ées (No	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti xplain in Re nches): nches):	es (B13) dor (C1) ires along ed Iron (C4 on in Plow emarks)	Living Roots	Wa Sec Drif Dra Dry Dry Thin Cra 5) Sat Sha FA(ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3) C-Neutral Test (D5)
YDROLO	DGY ydrology Indicators: icators (any one indic Water (A1) 'ater Table (A2) ion (A3) Marks (B1) (Nonriver ant Deposits (B2) (No aposits (B3) (Nonriver aposits (B3) (Nonriver aposits (B3) (Nonriver aposits (B3) (Nonriver aposits (B3) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonriver (B4) (Nonr	rine) nriverine) rine) Imagery (B7) res (* No res (* No	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E Other (E Other (i Depth (i Depth (i	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti xplain in Re nches): nches): nches):	es (B13) dor (C1) res along ed Iron (C4 on in Plov emarks)	Living Roots	Seconda War Sec Drif Dra Dra Dry . (C3) Thin Cra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3) C-Neutral Test (D5)
YDROLO	DGY vdrology Indicators: icators (any one indic Water (A1) vater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present? Present? pullary fringe) ecorded Data (stream	rine) nriverine) rine) lmagery (B7) res (No res (No res (No res (No	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E Other (E Other (E Other (E	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti xplain in Re nches): nches): nches):	es (B13) dor (C1) res along ed Iron (C4 on in Plov emarks) emarks)	Living Roots +) /ed Soils (Ce Wetlar pections), if	Seconda Seconda War Drif Drif Drif Drif Drif Drif Drif Cra Sat Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3) C-Neutral Test (D5)
YDROLO	DGY vdrology Indicators: icators (any one indic a Water (A1) fater Table (A2) ion (A3) Marks (B1) (Nonriver ant Deposits (B2) (No aposits (B3) (Nonriver a Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ther Present? Present? appillary fringe) accorded Data (stream m CaSIL, April 200	rine) nriverine) rine) lmagery (B7) 'és (No 'és (No 'és (No 'és (No 'és (No 'és (No	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E Other (E Other (E Other (i)))))))))))))))))))))))))))))))))))	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ron Reducti xplain in Re nches): nches): nches):	es (B13) dor (C1) ires along ed Iron (C4 on in Plow emarks) emarks)	Living Roots) /ed Soils (C6 Wetlar pections), if	Seconda Seconda Wa Sec Drif Dri Dri Dri Ori Thin C3) Thin C3) Stat Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3) C-Neutral Test (D5) Present? Yes (No
YDROLO	DGY vdrology Indicators: icators (any one indic a Water (A1) vater Table (A2) ion (A3) Marks (B1) (Nonriver and Deposits (B2) (No aposits (B3) (Nonriver a Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ther Present? Present? Present? Present? Present? m CaSIL, April 200	rine) nriverine) rine) lmagery (B7) res (No res (No	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E Other (E Other (E Other (E Other (E Other (E)) Other (E) Other	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti xplain in Re nches): nches): nches): I photos, pr	es (B13) dor (C1) res along ed Iron (C4 on in Plov emarks) emarks)	Living Roots i) ved Soils (C6 Wetlar pections), if	Seconda War Seconda Orif Drif Dra Dra Ora Ora State Shate FAC ad Hydrology I available:	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) illow Aquitard (D3) C-Neutral Test (D5) Present? Yes (No (
YDROLO	DGY vdrology Indicators: icators (any one indic Water (A1) 'ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Present? Presen	rine) nriverine) rine) lmagery (B7) res (No res (No	ent) Salt Crus Biotic Cr Aquatic I Hydroge X Oxidized Presence Recent II Other (E Other (E Other (E Other (E	st (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduce ron Reducti xplain in Re nches): nches): nches): I photos, pr	es (B13) dor (C1) res along ed Iron (C4 on in Plov emarks) evious ins	Living Roots }) /ed Soils (Ce Wetlar pections), if	Seconda Seconda War Drif Drif Dra Drif Ora Ora Cra Saturation Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 illow Aquitard (D3) C-Neutral Test (D5) Present? Yes (No (

Project/Site: PG&E Line 407(East)	City/County:Placer/Sur	tter/Sacramento	Sampling Date: 5/5/08	
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: γ	V 173-174e
Investigator(s): Erin Hess (USACE), E. Alfieri	Section, Township, Rar	nge:Please see Locatio	n Map for all Sec	,Town,Range
Landform (hillslope, terrace, etc.):	Local relief (concave, c	convex, none):None	Slop	e (%):4
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datun	n:WGS84
Soil Map Unit Name: Xerofluvents		NWI classific	cation: Seasonal S	wale
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🕞 👘 No 🏹	(If no, explain in R	Remarks.)	
Are Vegetation Soil or Hydrology significantly	/ disturbed? Are "	Normal Circumstances"	present? Yes 🌘	No
Are Vegetation Soil or Hydrology naturally pro	oblematic? (If ne	eded, 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 (No (is the Sampled Area		
Wetland Hydrology Present?	Yes (No 🍘	within a Wetland?	Yes	No (
Remarks:					

	Absolute	Dominant	Indicator	Dominance Test w	/orksheet:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominar	nt Species			
1.				That Are OBL, FAC	W, or FAC): 3	i	(A)
2.				Total Number of Do	minant			
3.				Species Across All	Strata:	3		(B)
4.	10	5						~ ~
N <u>5</u>	- 0/		w	 Percent of Dominar That Are OBL_EAC 	nt Species	. 100	0.04	
Sapling/Shrub Stratum	20			Inducie Obe, I AO	W, OTAC	. 100	J.U %	(A/D)
1.				Prevalence Index	workshee	t:		
2.		-		Total % Cover	of:	Multipl	y by:	_
3.				OBL species		x 1 =	0	
4.				FACW species	10	x 2 =	20	
5		÷	2.	FAC species	80	x 3 =	240	
Total Cove				FACU species	00	x 4 =	0	
Herb Stratum	. /0			LIPL species		x 5 =	0	
¹ .Lolium multiflorum	70	Yes	FAC	Column Totals:	00	(A)	260	(B)
2. Juncus buffonius	10	Yes	FACW		90	0 9	200	(-)
³ .Hordeum marinum ssp. gussoneanum	10	Yes	FAC	Prevalence In	idex = B/A	\ =	2.89	
4.			<u>%)</u>	Hydrophytic Vege	tation Ind	icators:		
5.	<u> </u>		22	X Dominance Te	st is >50%			
6.	2	60 0	38	× Prevalence Ind	lex is ≤3.0 ¹	f		
7			27	Morphological	Adaptation	ns ¹ (Provide	supporti	ng
8			50	data in Rem	narks or on	i a separate	sheet)	3822
Total Cover	- <u> </u>			Problematic Hy	/drophytic	Vegetation ¹	(Explair	1)
Woody Vine Stratum	· 90 %							
1.				¹ Indicators of hydrid	c soil and	wetland hy	drology	must
2				be present.				
Total Cover	: %		14	Hydrophytic				
% Bare Ground in Herb Stratum 10 % % Cover	r of Biotic (Crust	0/	Vegetation Present?	Voc G	No C		
			/0	Treatmi	163 (*	NO (
Remarks.								

Depth	Matrix			Redox Feature	es		x	
(inches)	Color (moist)	%	Color (mois	st) %	Type ⁺	Loc ²	Texture	Remarks
0-5	7.5YR 3/4	100			æ	. <u></u>	clay loam	
5	7.5YR 3/4	95	7.5YR 5/9	5_	<u>C</u>		clay loam	
20		1947 - MA		1246			67.	-x
			3	-20			5	
50			7					
<i></i>	201			1875				35
22				100			á	
	Concentration D-De	nlation DM		riv ² l o optic				
³ Soil Textu	res: Clav. Silty Clav.	Sandv Cla	v. Loam. Sandv	rix. Localic / Clav Loam. S	andv Loam	. Clav Loar	n. Siltv Clav Loar	n. Silt Loam. Silt. Loamv Sand. Sand.
Hvdric Soil	Indicators: (Applica	ble to all LF	Rs. unless oth	erwise noted.)		,,	Indicators for	Problematic Hydric Soils
Histos	ol (A1)		Sandy	Redox (S5)			1 cm Muc	k (A9) (LRR C)
Histic	Epipedon (A2)		Stripp	ed Matrix (S6)			2 cm Muc	k (A10) (LRR B)
Black	Histic (A3)		Loam	y Mucky Miner	ral (F1)		Reduced	Vertic (F18)
Hydrog	gen Sulfide (A4)	C)	Loam	y Gleyed Matr tool Motrix (E2	x (F2)		Red Pare	nt Material (TF2)
	uck (A9) (LRR D)	. •)	Redo	x Dark Surface	/ (F6)			plain in Remarks)
Deplet	ed Below Dark Surfa	ice (A11)	X Deple	ted Dark Surfa	ace (F7)			
Thick I	Dark Surface (A12)		Redo	x Depressions	(F8)			
Sandy	Mucky Mineral (S1)		Verna	al Pools (F9)			⁴ Indicators of	hydrophytic vegetation and
Sandy	Gleyed Matrix (S4)						wetland hy	drology must be present.
Restrictive	e Layer (if present):							
Type:	- 1 - N							
Depth (I	inches):						Hydric Soll Pr	esent? Yes (e) No (
Remarks:								
HYDROL	OGY							
Wetland H	ydrology Indicators	s:					Seconda	ry Indicators (2 or more required)
Primary Inc	dicators (any one indi	icator is suf	ficient)				Wate	er Marks (B1) (Riverine)
Surfac	e Water (A1)		Salt	Crust (B11)			Sedi	ment Deposits (B2) (Riverine)
High V	Vater Table (A2)		Bioti	c Crust (B12)			Drift	Deposits (B3) (Riverine)
Satura	tion (A3)		Aqu	atic Invertebra	tes (B13)		Drai	nage Patterns (B10)
Water	Marks (B1) (Nonrive	erine)	Hyd	rogen Sulfide (Ddor (C1)		Dry-	Season Water Table (C2)
X Sedim	ent Deposits (B2) (N	onriverine)		lized Rhizosph	eres along	Living Roo	ts (C3)	Muck Surface (C7)
X Drift D	eposits (B3) (Nonriv	erine)	Pres	ence of Reduc	ced Iron (C4) Ind Dails (C	Cray	fish Burrows (C8)
X Surrac	e Soll Cracks (Bo)	l Imagany (F		ent Iron Reduc ar (Explain in E	amarke)	rea Solis (C	-o) X Satu	ration visible on Aerial Imagery (C9)
Water.	-Stained Leaves (B9)	i iniagery (c		er (⊏xpiain in P	emarks)			-Neutral Test (D5)
Field Obse	ervations:	2				1		
Surface W	ater Present?	Yes 🔿	No 🍙 🛛 Dei	oth (inches):				
Water Tabl	le Present?	Yes C	No C Der	oth (inches):				
Saturation	Present?	Ves C	No C Dei	oth (inches)				5,062 8.00
(includes c	apillary fringe)	100 (Wetla	and Hydrology P	resent? Yes 🛈 No 🤇
Describe R	lecorded Data (stream	m gauge, m	onitoring well, a	aerial photos, p	previous ins	pections), i	if available:	
Aerial fro	m CaSIL, April 20							
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer	r/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 175e		
Investigator(s):Erin Hess, E. Alfieri	Section, Township	, Range: Please see Locatio	n Map for all Sec,Towr	i,Range	
Landform (hillslope, terrace, etc.):	Local relief (conca	ave, convex, none):None	Slope (%):1		
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS	84	
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes & San Joa	quin-Cometa	NWI classific	ation: Seasonal Wetland	ĺ.	
Are climatic / hydrologic conditions on the site typical for this time of y	ear?Yes 💽 📃 N	No 🦳 🦳 (If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology significantly	y disturbed?	Are "Normal Circumstances" p	resent? Yes 🌘 No	C	
Are Vegetation Soil or Hydrology naturally pr	roblematic? (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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes	No (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species		
1.				That Are OBL, FACW, or FAC:	3	(A)
2.				Total Number of Dominant		
3.				Species Across All Strata:	3	(B)
4		10.1	ui -		2	C J
			«	 Percent of Dominant Species That Are OBL 54 OML on 54 OML 	100.0	(4.(5))
Sapling/Shrub Stratum	70			That Are OBL, FACW, or FAC:	100.0 %	(A/B)
1.				Prevalence Index worksheet:		
2.	<u>181 </u>			Total % Cover of:	Multiply by:	
3		- <u></u>		OBL species 40 x	1 = 40	
4	9 		1.) 	FACW species 60 x	2= 120	
5		s		EAC species	3= 0	
J			<u></u>		x4 = 0	
Herb Stratum	. %				(4	
1. Tumbra an	40	Vac	ODI	OPL species x	5 - 0	
2 p	40	1 05		- Column Totals: 100 (A	A) 160	(B)
2. Kumex crispus		Yes	FACW	Prevalence Index = B/A =	1.60	8
3. Polypogon monspellensis	25	Yes	FACW		tore:	<i></i>
4.	a	92	24	- Dominance Test is >50%	atora.	
5				Dominance rest is >50%		
6			224	Prevalence index is ≤3.0		2
7.				data in Remarks or on a	(Provide support	ing
8.					actation ¹ (Evaluation	
Total Cover	100%		5		egetation (Explai	9
Woody Vine Stratum	20070			4		
1		<i>61</i>	2	Indicators of hydric soil and w	etland hydrology	must
2						
Total Cover	: %			Hydrophytic		
% Bare Ground in Herb Stratum% % Cover	of Biotic C	Crust	%	Present? Yes (No (
Remarks:		12		<u>]</u>		

Depth	Matrix		Redo	ox Features			
inches)	Color (moist)	%	Color (moist)	%Тур	e ¹ Loc ²	Texture ³	Remarks
ype: C=C Soil Textur ydric Soil I	Concentration, D=Depl es: Clay, Silty Clay, S Indicators: (Applicabl	etion, RM= Sandy Clay, e to all LRF	Reduced Matrix. Loam, Sandy Clay ts, unless otherwis	² Location: PL= / Loam, Sandy Lo e noted.)	Pore Lining, R oam, Clay Loa	C=Root Channel, M=Ma m, Silty Clay Loam, Silt Indicators for Proble	trix. Loam, Silt, Loamy Sand, Sar matic Hydric Soils.:
] Histoso	I (A1) Inipadan (A2)		Sandy Red	ox (S5) Iatrix (S6)		1 cm Muck (A9)	
Black H	listic (A3)		Loamy Mu	cky Mineral (F1)		Reduced Vertic	(F18)
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix (F2)		Red Parent Mate	erial (TF2)
Stratifie	d Layers (A5) (LRR C	;)	Depleted N	Aatrix (F3)		X Other (Explain ir	n Remarks)
Deplete	uck (A9) (LRR D) ed Below Dark Surface	e (A11)		ark Surface (F6)	}		
Thick D	ark Surface (A12)		Redox Dep	pressions (F8)	<i>.</i>		
Sandy I	Mucky Mineral (S1)		Vernal Poo	ols (F9)		⁴ Indicators of hydrop	hytic vegetation and
Sandy	Gleyed Matrix (S4)		29			wetland hydrolog	y must be present.
lestrictive	Layer (if present):						
Donth (ir	vehee):					Hydric Soil Present	
Deput (il	laile nearmad dua t	o inundati	on and dominan	on hy OPI and	EACW had	Ironhutor	
eniarka. L	sons assumed due t	0 munuari	ion and dominan	ce by OBL and	TAC W liyu	uopnyies	

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) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livi	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 C No (Depth (inches):	
Saturation Present? Yes (No (Depth (inches):	Wetland Hydrology Present? Ves (No (
(Includes capillary Innge)	tions) if available:
Aerial from CaSII April 2004	uons), ii available.
Achai nom Casil, April 2004	
Remarks:	

Project/Site: PG&E Line 407(East)	City/County:Placer	/Sutter/Sacramento	Sampling Date: 5/5/08
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 176e
Investigator(s):Erin Hess, E. Alfieri	Section, Township,	Range:Please see Location	n Map for all Sec,Town,Ran
Landform (hillslope, terrace, etc.):	Local relief (conca	ve, convex, none):None	Slope (%):1
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84
Soil Map Unit Name: Alamo-Fiddyment, 0-5% slopes & San Joa	quin-Cometa	NWI classific	ation: Seasonal Wetland
Are climatic / hydrologic conditions on the site typical for this time of y	ear?Yes 🕢 🛛 N	lo 🤇 🦳 (If no, explain in R	emarks.)
Are Vegetation Soil or Hydrology significantly	y disturbed? A	Are "Normal Circumstances" p	oresent? Yes 🌘 🛛 No 🤇
Are Vegetation Soil or Hydrology naturally pr	oblematic? (lf 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 Sampled Area			
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes	No (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species		
1.				That Are OBL, FACW, or FAC	: 3	(A)
2.				Total Number of Dominant		
3.	8	<u></u>		Species Across All Strata:	3	(B)
4.	10	3			9	
	- 0/		10 	 Percent of Dominant Species That Are OBL FACW(or FAC 	100.04	(4/5)
Sapling/Shrub Stratum	/0			That Are OBE, FACW, of FAC	·· 100.0 %	(A/B)
1.				Prevalence Index worksheet	t:	
2.	<u></u>			Total % Cover of:	Multiply by:	
3.	3			OBL species	x 1 =	0
4	0 		<u></u>	FACW species 60	x 2 = 1	20
5	ä?	<u>.</u>	22	FAC species 40	x 3 = 1	20
o	······································			FACU species	x4=	20 n
Herb Stratum	. 70				x 5 =	2
1. I alium multiflorum	40	Ves	FAC		x5-) (D)
2 Pumor orignus	25	Vec	- EACW	_ Column Lotals: 100	(A) 2-	40 (B)
3 D-hard crispus	- 35	Vac		Prevalence Index = B/A	.= 2.	40
^o .Polypogon monspellensis	23	1 05	FACW	Hydrophytic Vegetation Indi	icators:	
	8		2.	 Dominance Test is >50% 		
J.			55°	\sim Prevalence Index is <3 0 ¹	i Î	
0.	s		(i)		e ¹ (Provide cupr	orting
<i>I</i>			5)	- data in Remarks or on	a separate shee	et)
8				Problematic Hydrophytic	Vegetation ¹ (Exc	ain)
Total Cover	100%					
				¹ Indicators of bydric soil and	wetland bydrolo	av muet
1		-	297	- be present.		gy musi
2			5			
Total Cover	: %			Hydrophytic		
% Bare Ground in Herb Stratum% % Cover	of Biotic C	Crust	%	Present? Yes (No (
Remarks:				L		

Depth	Matrix		Redo	x Features						
inches)	Color (moist)	%	Color (moist)	<u>%</u> Typ	be ¹ Loc ²	Texture ³ Remarks				
Type: C=C Soil Texture ydric Soil I	oncentration, D=Depl es: Clay, Silty Clay, S ndicators: (Applicabl	etion, RM=l andy Clay, e to all LRR	Reduced Matrix. Loam, Sandy Clay s, unless otherwise	² Location: PL= Loam, Sandy L e noted.)	Pore Lining, R oam, Clay Loa	C=Root Channel, M=Ma m, Silty Clay Loam, Silt Indicators for Proble	trix. Loam, Silt, Loamy Sand, San matic Hydric Soils ⁴ :			
☐ Histoso ☐ Histic E ☐ Black H ☐ Hydroge	l (A1) pipedon (A2) istic (A3) en Sulfide (A4)		Sandy Redo Stripped M Loamy Muc Loamy Gle	x (S5) atrix (S6) cky Mineral (F1) yed Matrix (F2)		1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Red Parent Mat	(LRR C)) (LRR B) (F18) erial (TF2)			
Stratifie 1 cm M Deplete Thick D Sandy M	d Layers (A5) (LRR C uck (A9) (LRR D) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1)	;) 9 (A11)	Depleted M Redox Darl Depleted D Redox Dep Vernal Poo	latrix (F3) k Surface (F6) lark Surface (F7 iressions (F8) Is (F9))	∐ Other (Explain in	n Remarks) hytic vegetation and			
Sandy (Gleyed Matrix (S4)			-2.2.9 NO.2.4		wetland hydrolog	y must be present.			
testrictive	Layer (if present):									
Depth (in	iches):					Hydric Soil Present?	Yes (No (
.emarks: S	Soils assumed due t	o inundati	on and dominand	ce by OBL and	d FACW hyd	lrophytes				

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) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livi	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 C No (Depth (inches):	
Saturation Present? Yes (No (Depth (inches):	Wetland Hydrology Present? Ves (No (
(Includes capillary Innge)	tions) if available:
Aerial from CaSII April 2004	uons), ii available.
Achai nom Casil, April 2004	
Remarks:	

Project/Site: PG&E Line 407(East)	City/County:Pla	icer/Sutter/S	Sacramento	Sampling	g Date: 5/5,	/08
Applicant/Owner: Pacific Gas and Electric			State:CA	Sampling	g Point: W	177e
Investigator(s):Erin Hess (USACE), Elena Alfieri	Section, Towns	hip, Range:	lease see Locatio	on Map fo	or all Sec,	Town,Range
Landform (hillslope, terrace, etc.):	Local relief (co	ncave, conve	ex, none):None		Slope	(%):1
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Lon	g: 121 30'05.56"	W	Datum:	WGS84
Soil Map Unit Name: Cometa-Fiddyment Complex, 1-5% slopes			NWI classifi	cation: Sea	asonal Sw	ale
Are climatic / hydrologic conditions on the site typical for this time of y	ear?Yes 🕞	No C	(If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology significantly	y disturbed?	Are "Norm	al Circumstances"	present?	Yes 🌘	No (
Are Vegetation Soil or Hydrology naturally p	roblematic?	(If needed	, explain any answe	ers in Rem	arks.)	
SUMMARY OF FINDINGS - Attach site map showing	y sampling p	oint locati	ons, transects	, import	ant feat	ures, etc.

Hydrophytic Vegetation Present?	Yes (No 🌘				
Hydric Soil Present?	Yes (No C	is the Sampled Area			
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes (No C	
Remarks: A portion of this featur	e extends onto	and that was o	lenied access			

	Absolute	Dominant	Indicator	Dominance Test w	vorksheet	:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Domina	nt Species	5		
1.		54 <u>1</u>		That Are OBL, FAC	W, or FAC	C: 2		(A)
2.				Total Number of Do	minant			
3.				Species Across All	Strata:	2		(B)
4.	2.	10	a.					100 00
	9/6		5. 	 Percent of Dominar That Are OBL_EAC 	NV or FAC	. 100		(Λ/R)
Sapling/Shrub Stratum					<i>m</i> , or r.c	J. 100	0.0 %	(~~)
1.				Prevalence Index	workshee	it:		
2.		· · · · · · · · · · · · · · · · · · ·		Total % Cover	of:	Multipl	y by:	_
3.	3 			OBL species		x 1 =	0	
4.			-	FACW species	50	x 2 =	100	
5.	ð <u></u> 8	8	2	FAC species	45	x 3 =	135	
Total Cover	. 0/2		<u> </u>	FACU species		x 4 =	0	
Herb Stratum				UPL species	5	x 5 =	25	
¹ . Rumex acetosella	30	Yes	FAC	Column Totals:	100	(A)	260	(B)
2. Polypogon monspeliensis	50	Yes	FACW		100			
^{3.} Lolium multiflorum	15	~	FAC	Prevalence In	dex = B/A	<i>\</i> =	2.60	
4. Leontodon taraxacoides	5		UPL	Hydrophytic Vege	tation Ind	icators:		
5.		8		🖌 🗙 Dominance Te	st is >50%	3		
6.	3 			Prevalence Inc	lex is ≤3.0	1		
7.				Morphological	Adaptatior	ns ¹ (Provide	supporti	ng
8.				- data in Rem	narks or or	n a separate	sheet)	
Total Cover	100.0/		3	Problematic Hy	/drophytic	Vegetation ¹	(Explair	1)
Woody Vine Stratum	100%							
1.				¹ Indicators of hydri	c soil and	wetland hy	drology	must
2.	S <u></u> %	···		be present.				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum% Cover	of Biotic C	Crust	%	Present?	Yes (No (
Remarks:		22	15					

(inches)	Color (moist)	% Cole	pr (moist) %	Type ¹	Loc ²	Texture ³	Rema	arks
0-2	10YR 3/4	90 7.5 YI	R 6/8 10	RC	clay loam			
				215				
			16					
4 1				2015				
i.	207		382 -	- Col		5 - C182		
12 22			10 °			1. Cist		
¹ Type: C=C	Concentration, D=Depl	etion, RM=Reduc	ed Matrix. ² Loca	tion: PL=Po	re Lining, R	C=Root Channel, M=	Matrix.	
³ Soil Textur	es: Clay, Silty Clay, S	andy Clay, Loam	, Sandy Clay Loam,	Sandy Loa	m, Clay Loai	m, Silty Clay Loam, S	Silt Loam, Silt, Loar	ny Sand, Sand.
Hydric Soll Histosc	Indicators: (Applicabl	e to all LRRs, uni	ess otherwise noted	.)		Indicators for Pro	A9) (I RR C)	olis:
Histic E	Epipedon (A2)		Stripped Matrix (S	6)		2 cm Muck (A10) (LRR B)	
Black H	listic (A3)		Loamy Mucky Min	eral (F1)		Reduced Ve	rtic (F18)	
Hydrog	en Sulfide (A4)		Loamy Gleyed Ma	trix (F2)		Red Parent I	Material (TF2)	
Stratifie	ed Layers (A5) (LRR C	;)	Depleted Matrix (F	-3)		Other (Expla	in in Remarks)	
1 cm M	luck (A9) (LRR D) ad Rolow Dark Surface	. (A11)	Redox Dark Surfa	Ce (F6) face (F7)				
Thick Depiete	ark Surface (A12)		Redox Depression	1ace (F7) is (F8)				
Sandy	Mucky Mineral (S1)	<u>^</u>	Vernal Pools (F9)	10 (1 0)		⁴ Indicators of hyd	Irophytic vegetatior	n and
Sandy	Gleyed Matrix (S4)					wetland hydro	logy must be prese	ent.
Restrictive	Layer (if present):							
Type: ${ m H}$	ardpan							
Depth (ir	nches):6					Hydric Soil Prese	ent? Yes 间	No (
)GY							
Wetland Hy	vdrology Indicators:					Secondary	ndicators (2 or mor	e required)
Primary Ind	icators (any one indica	ator is sufficient)				Water M	/larks (B1) (Riverin	ie)
	e Water (A1)	/	Salt Crust (B11)			Sedime	nt Denosits (B2) (R	tiverine)
🔄 High W	/ater Table (A2)		Biotic Crust (B12)		Drift De	posits (B3) (Riveri	ne)
Saturat	tion (A3)		Aquatic Invertebr	, ates (B13)		🗙 Drainag	je Patterns (B10)	,
Water I	Marks (B1) (Nonriveri	ne)	Hydrogen Sulfide	Odor (C1)		Dry-Sea	ason Water Table (C2)
Sedime	ent Deposits (B2) (No r	nriverine)	Oxidized Rhizos	heres alon	g Living Roo	ots (C3) 🔲 Thin Mu	uck Surface (C7)	
Drift De	eposits (B3) (Nonriver	ine)	Presence of Red	uced Iron (C	24)	Crayfisl	n Burrows (C8)	
Surface	e Soil Cracks (B6)		Recent Iron Red	uction in Plo	wed Soils (0	C6) 🔄 Saturat	ion Visible on Aeria	I Imagery (C9)
Inunda [®]	tion Visible on Aerial Ir	magery (B7)	Other (Explain in	Remarks)		Shallow	/ Aquitard (D3)	
Vvater-	Stained Leaves (B9)					FAC-Ne	eutral Test (D5)	
Field Obse	rvations:							
Surface wa	ter Present? Y	es (NO (e	Depth (Inches):					
Water Table	e Present? Ye	es (NO (e	Depth (inches):					
Saturation I (includes ca	Present? Ye apillary fringe)	es (`No (•	Depth (inches): 	neoviouo ir	Wetla	and Hydrology Pres	sent? Yes 🛈	No C
Aerial from	n CaSIL, April 200	gauge, monitorin 4	y well, aerial priotos	, previous ir	ispections),	n avaliable:		
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer	/Sutter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 178e		
Investigator(s):Erin Hess (USACE), Elena Alfieri	Section, Township,	Range: Please see Locatio	n Map for all Sec, Town, Range		
Landform (hillslope, terrace, etc.):	Local relief (conca	ve, convex, none):None	Slope (%):1		
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84		
Soil Map Unit Name: Cometa-Fiddyment Complex, 1-5% slopes		NWI classific	ation: Seasonal Wetland		
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🌔 🛛 N	o 🌈 👘 (If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology significantly	/ disturbed? A	vre "Normal Circumstances"	present? Yes 🌘 No 🤇		
Are Vegetation Soil or Hydrology naturally pr	oblematic? (I	f needed, explain any answe	rs in Remarks.)		

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🌘 Yes 🌘	No (No (is the Sampled Area			
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes (No (
Remarks:						

and where the statement of the test	Absolute	Dominant	Indicator	Dominance Test w	orksheet:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominar	nt Species			
1.		14 <u>1</u>		That Are OBL, FAC	W, or FAC):	2	(A)
2.				Total Number of Do	minant			
3.				Species Across All	Strata:		2	(B)
4.	10		a.					122 22
	%			 Percent of Dominar That Are OBL_EAC 	It Species	10	0.0.0/	(Δ/B)
Sapling/Shrub Stratum				matrice ODE, 1710	M, 011710	. 10	0.0 %	(~~)
1.				Prevalence Index v	worksheet	t:		
2.				Total % Cover	of:	Multip	ly by:	_
3.		-		OBL species		x 1 =	0	
4.	e			FACW species	45	x 2 =	90	
5.	<u></u>			FAC species	45	x 3 =	135	
	. %	-		FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0 0	
^{1.} Rumex crispus	30	Yes	FACW	Column Totals:	90	(A)	225	(B)
² .Lolium multiflorum	35	Yes	FAC		20			
³ .Polypogon monspeliensis	15	~	FACW	Prevalence In	dex = B/A	(=	2.50	
⁴ .Hordeum marinum ssp. gussoneanum	10		FAC	Hydrophytic Veget	ation Indi	icators:		
5.		40	2 <u>7</u>	🖌 Dominance Tes	st is >50%			
6.	3. · · ·		N	X Prevalence Ind	ex is ≤3.0¹			
7.				Morphological /	Adaptation	is ¹ (Provide	e supporti	ng
8.	8		5)	- data in Rem	arks or on	a separate	e sheet)	22
Total Cove	: 00 ø/			Problematic Hy	drophytic '	Vegetation	' (Explair	ı)
Woody Vine Stratum	30 70							
1.				¹ Indicators of hydrid	soil and	wetland hy	/drology	must
2.				be present.				
Total Cove	: %		3 ¹	Hydrophytic				
% Bare Ground in Herb Stratum $10~\%$ % Cove	r of Biotic C	Crust	%	Present?	Yes (No (
Remarks:		22		2.2				

Profile Des	cription: (Describe	to the dept	h needed to docu	ment the	indicator of	or confirm	n the absence of indi	cators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
0-2	10YR 3/4	100				· · · · · · · · · · · · · · · · · · ·	sandy clay loam	
2-6	7.5YR 3/3	100						
177		-14 7 - 144					lat. sidža	
<i>p</i> .								
<u>c</u>							1	
								3
¹ Type: C=C	 Concentration, D=Dep	letion, RM=l	Reduced Matrix.	² Location	n: PL=Pore	Lining, R	C=Root Channel, M=N	Aatrix.
³ Soil Textur	es: Clay, Silty Clay,	Sandy Clay,	Loam, Sandy Clay	Loam, Sa	andy Loam	, Clay Loa	m, Silty Clay Loam, Si	ilt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicab	le to all LRR	s, unless otherwise	e noted.)			Indicators for Prob	olematic Hydric Soils ^⁴ :
Histoso	ol (A1)		Sandy Redo	x (S5)			1 cm Muck (A	9) (LRR C)
Histic E	Epipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A	10) (LRR B)
Black H	listic (A3)		Loamy Mu	cky Minera	al (F1)		Reduced Vert	ic (F18)
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent M	aterial (TF2)
	ed Layers (A5) (LRR	C)	Depleted M	latrix (F3)	(50)		Other (Explain	n in Remarks)
1 cm M	luck (A9) (LRR D) ad Balaw Dark Surfac	~ (411)	Redox Dan	k Sunace	(F6)			
	ork Surface (A12)	e (ATT)	Depleted D	rossions ((EQ)			
Sandy	Mucky Mineral (S1)		X Vernal Poo	le (F9)	(10)		⁴ Indicators of hydr	onhytic vegetation and
Sandy	Gleved Matrix (S4)			10 (1 0)			wetland hydrold	ogy must be present
Restrictive	Laver (if present):							
Type: H	ardnan							
Denth (ir	ar apar						Hydric Soil Preser	12 Ves A No
Deptri (il							nyunc son rieser	
Remarks.								
HYDROLO	DGY							
Wetland Hy	drology Indicators:	9					Secondary In	dicators (2 or more required)
Primary Ind	icators (any one indic	ator is suffic	ient)				Water Ma	arks (B1) (Riverine)
	e Water (A1)		Salt Crust	(B11)			Sedimen	t Denosits (B2) (Riverine)
	ater Table (A2)		Biotic Cru	st (B12)				osite (B3) (Riverine)
	ion $(A3)$			vertebrate	es (B13)			Patterns (B10)
Water I	Marks (B1) (Nonriver	ine)	Hydroden	O abillus	dor(C1)		Drainage	son Water Table (C2)
	ant Denosite (B2) (No	nriverine		Phizoenha	aree along	Living Roc	rate (C3) Thin Muc	2k Surface (C7)
	anosits (B3) (Nonrive	rino)	Presence	of Reduce	ad Iron (C4			Burrows (C8)
Surface	Soil Cracks (B6)	inic)	Recent Irr	on Reduct	ion in Plow	ed Soils ((C6) Saturatio	n Visible on Aerial Imageny (C9)
	tion Visible on Aerial	Imagen/ (B7		nlain in Re	amarke)) 61100 60		Aquitard (D3)
Water-9	Stained Leaves (B9)	inagory (D)		plainin	smantoj		EAC-Nei	utral Test (D5)
Field Obse	wations:							
Surface Wa	tar Present? V		lo 🍙 🛛 Denth (in	chae).				
Watan Tabl			lo (C Depth (in					
	e Present? Y	res (io (e Deptri (ir	icries).				
Saturation F	resent? Y	′es (`N	lo (e Depth (ir	icnes):		Wetla	and Hydrology Prese	ent? Yes 🛈 No 🤇
Describe Re	ecorded Data (stream	n gauge, mor	nitoring well, aerial	photos, pi	revious ins	pections),	if available:	ananuun ensenne 12703 187728 999
Aerial fror	n CaSIL, April 200	04						
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer	/Sutter/Sacramento	Sampling Date: 5/5/08
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 179e
Investigator(s):Erin Hess, E. Alfieri	Section, Township,	n Map for all Sec, Town, Range	
Landform (hillslope, terrace, etc.):	Local relief (conca	ve, convex, none):None	Slope (%): 3
Subregion (LRR): <u>C</u> - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84
Soil Map Unit Name: Cometa-Fiddyment Complex 1-5% slopes		NWI classific	ation: Seasonal Wetland
Are climatic / hydrologic conditions on the site typical for this time of y	rear?Yes 🍙 🛛 N	lo 🤇 🦳 (If no, explain in R	emarks.)
Are Vegetation Soil or Hydrology significantly	y disturbed? A	Are "Normal Circumstances" p	present? Yes 🌘 No 🤇
Are Vegetation Soil or Hydrology naturally p	roblematic? (lf 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 Sampled Area				
Wetland Hydrology Present?	Yes (No 🥟	within a Wetland?	Yes	•	No (
Remarks:							

	Absolute	Dominant	Indicator	Dominance Test w	orksheet	:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominan	t Species	3		
1				That Are OBL, FAC	N, or FA	D:	1	(A)
2				Total Number of Do	minant			
3.				Species Across All S	Strata:		1	(B)
4.				Barcont of Dominan	t Spacios			
	%			That Are OBL, FAC	N, or FA	: C: 10	0.0%	(A/B)
Sapling/Shrub Stratum						14	0.0 70	(· /
1	94 <u> </u>	20-1	<u> </u>	Prevalence Index v	vorkshee	et:		
2.				Total % Cover of	of:	Multi	oly by:	72
3.				OBL species		x 1 =	0	
4.	· · · · · ·			FACW species	10	x 2 =	20	
5.	2 <u> </u>			FAC species	85	x 3 =	255	
Total Cover	: %			FACU species		x 4 =	0	
Herb Stratum				UPL species	5	x 5 =	25	
¹ .Lolium multiflorum	75	Yes	FAC	Column Totals:	100	(A)	300	(B)
² .Rumex crispus	5		FACW					
^{3.} Hordeum marinum ssp. gussoneanum	10	-	FAC	Prevalence Inc	dex = B/A	<i>d</i> =	3.00	
4. Leontodon taraxacoides	5		UPL	Hydrophytic Veget	ation Ind	licators:		
5. Juncus buffonius	5	÷	FACW	🗙 Dominance Tes	t is >50%	D		
6.			<u>.</u>	Prevalence Inde	ex is ≤3.0	1		
7.		3.41 •	2)	Morphological A	daptation	ns ¹ (Provid	e supporti	ng
8.			5)	- data in Rema	arks or or	n a separat	te sheet)	13
Total Cover	100.0/			Problematic Hy	drophytic	Vegetation	n' (Explair	1)
Woody Vine Stratum	100 %							
1.				¹ Indicators of hydric	soil and	wetland h	ydrology	must
2.				be present.				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum% % Cover	of Biotic C	Crust	%	Present?	Yes (🕯	No (
Remarks:		22		<u> </u>				

Depth	Matrix		Redo	x Feature	s		04		
inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture ³	Rem	narks
			Decker of Matrix	21					
ype: C=Co Soil Texture	s: Clay, Silty Clay, S	etion, RM= andy Clay,	Reduced Matrix. Loam, Sandy Clay	Location	n: PL=Pore andy Loam	, Clay Loa	C=Root Channel, I m, Silty Clay Loam	M=Matrix. n, Silt Loam, Silt, Loa	amy Sand, Sa
ydric Soil Ir Histosol Black Hi Hydroge Stratified 1 cm Mu Depleted Thick Da	ndicators: (Applicabl (A1) bipedon (A2) stic (A3) in Sulfide (A4) d Layers (A5) (LRR C ick (A9) (LRR D) d Below Dark Surface ark Surface (A12)	e to all LRF)) (A11)	s, unless otherwise Sandy Redo Stripped Mi Loamy Muc Depleted M Redox Darl Depleted D	e noted.) x (S5) atrix (S6) xy Minera yed Matrix atrix (F3) c Surface ark Surfac ressions (al (F1) (F2) (F6) ce (F7) (F8)		Indicators for F 1 cm Mucl 2 cm Mucl Reduced V Red Parer X Other (Exp	Problematic Hydric S < (A9) (LRR C) < (A10) (LRR B) Vertic (F18) nt Material (TF2) olain in Remarks)	ioils:
Sandy M Sandy G	lucky Mineral (S1) Bleyed Matrix (S4)		Vernal Poo	ls (F9)	,		⁴ Indicators of h wetland hyd	hydrophytic vegetatic drology must be pres	on and sent.
estrictive l	Layer (if present):								
Type: Depth (ind	ches):						Hydric Soil Pre	esent? Yes 🖲	No (
emarks: No so	o soil sample was t il surface.	aken due	to the presence o	f wet ve _i	getation a	nd hydro	logy. Also, redo	ox features were o	bserved nea

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) (Riverine)
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) X Oxidized Rhizospheres along Living	Roots (C3) 🗍 Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	ils (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 (No (Depth (inches):	
Water Table Present? Yes C No (Depth (inches):	
Saturation Present? Yes No G Depth (inches):	Vetland Hydrology Present? Yes 🔎 No 🤇
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ns), if available:
Remarks:	

Project/Site: PG&E Line 407(East)	City/County:Placer,	Sampling Date: 5/5/08	22	
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 180e	
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township,	Range: Please see Locatio	n Map for all Sec,Town,Ra	inge
Landform (hillslope, terrace, etc.):	Local relief (concav	/e, convex, none):None	Slope (%):1	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: WGS84	
Soil Map Unit Name: Xerofluvents		NWI classific	cation: Vernal Pool	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌔 🛛 N	o 🦳 🦳 (If no, explain in F	lemarks.)	
Are Vegetation Soil or Hydrology significantly	/ disturbed? A	re "Normal Circumstances"	oresent? Yes 🏟 🛛 No 🤇	
Are Vegetation Soil or Hydrology naturally pr	oblematic? (I	f needed, explain any answe	rs in Remarks.)	

SUMMARY	OF	FINDI	NGS -	Attach	site map	showing	sampling	point	locations,	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 (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test works	neet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Spe	ecies		
1				That Are OBL, FACW, or	FAC:	4	(A)
2.				Total Number of Domina	nt		
3.				Species Across All Strata	1:	4	(B)
4.				- Development of Development One			2012 - 20
	- %		47)-	That Are OBL_FACW_or	EAC:	100.0.%	(A/B)
Sapling/Shrub Stratum					1710.	100.0 %	(100)
1.				Prevalence Index works	heet:		
2.				Total % Cover of:		Multiply by:	_
3.				OBL species 6(i x1=	= 60	
4.				FACW species 20) x 2 =	= 40	
5.	<u>.</u>		2	FAC species 2() x3=	= 60	
Total Cove	. %			FACU species	x 4 =	= 0	
Herb Stratum				UPL species	x 5 =	= 0	
¹ . Downingia bicornuta	20	Yes	OBL	Column Totals: 10	0 (A)	160	(B)
2. Lasthinia fremontii	5		OBL	2.0			
^{3.} Hordeum marinum ssp. gussoneanum	20	Yes	FAC	Prevalence Index =	= B/A =	1.60	E.
4. Plagiobothrys stipitatus	25	Yes	OBL	 Hydrophytic Vegetation 	Indicato	rs:	
5. Deschampsia danthonioides	20	Yes	FACW	Dominance Test is >	50%		
6.Psilocarphus brevissimus	10		OBL	Prevalence Index is	≤3.0 ¹		
7.		9.4" - #*	29. 	Morphological Adapt	ations ¹ (Pr	rovide suppor	ting
8.			50 1	data in Remarks	or on a se	parate sheet)	
Total Cove	100%	5		Problematic Hydroph	iytic Vege	tation' (Explai	n)
Woody Vine Stratum	100 %						
1.				¹ Indicators of hydric soil	and wetla	and hydrology	must
2.				be present.			
Total Cove	: %	Refer S		Hydrophytic			
% Bare Ground in Herb Stratum % % Cove	r of Biotic C	Crust	%	Present? Yes	•	No (
Remarks:		87	525 	1 75			

Depth	Matrix		Redo	ox Featur	es			na n
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
0-8	7.5YR 3/2	85	7.5YR 5/8	15	C	M	Clay loam	
83			~		<u></u>			
<i>2</i> /	6. 7		2					5.40 S
	() -1	-0	3) .		- 3		-	
	3 2	-	2				·	
	11	-2-0		22				60
2	2	-	8		100			
					- ()			
¹ Type: C=C	concentration, D=Dep	letion, RN	I=Reduced Matrix.	² Locatio	on: PL=Por	e Lining, R	C=Root Channel,	M=Matrix.
°Soil Texture	es: Clay, Silty Clay, S	Sandy Cla	y, Loam, Sandy Clay	/ Loam, S	Sandy Loan	n, Clay Loai	m, Silty Clay Loar	n, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil I	ndicators: (Applicab	le to all LF	Rs, unless otherwis	e noted.)			Indicators for	Problematic Hydric Soils:
Histoso Histic E	ninedon (A2)		Sandy Red	ox (So) latrix (S6)			$\mathbf{k} (A9) (\mathbf{LRC})$
Black H	listic (A3)		Loamy Mu	cky Mine	, ral (F1)		Reduced	Vertic (F18)
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matr	ix (F2)		Red Pare	nt Material (TF2)
Stratifie	d Layers (A5) (LRR (C)	Depleted M	Aatrix (F3	5)		Other (Ex	plain in Remarks)
1 cm M	uck (A9) (LRR D)		Redox Dai	k Surface	ə (F6)			
Deplete	ed Below Dark Surfac	e (A11)	Depleted L	Dark Surfa	ace (F7)			
	Mucky Mineral (S1)		Vernal Por	uressions de (F9)	(FO)		⁴ Indicators of	hydronhytic vegetation and
Sandy (Gleved Matrix (S4)		× voindir ox	510 (1 C)			wetland hy	drology must be present.
Restrictive	Layer (if present):							0 7 78
Type:								
Depth (ir	nches):		10				Hydric Soil Pr	esent? Yes 间 🛛 No 🤇
Remarks:			<u>2</u>				12	
TUROLU								
Wetland Hy	drology Indicators:						Seconda	ry Indicators (2 or more required)
Primary Indi	cators (any one indic	ator is suf	ficient)				Wate	er Marks (B1) (Riverine)
Surface	Water (A1)		Salt Crus	t (B11)			Sedi	ment Deposits (B2) (Riverine)
High W	ater Table (A2)		Biotic Cru	ust (B12)			Drift	Deposits (B3) (Riverine)
Saturati	ion (A3)	• • • •	Aquatic II	nvertebra	tes (B13)		Drail	hage Patterns (B10)
Vvater N	viarks (B1) (Nonriver	ne)	Hydroger	1 Sunde 1 Phizooph	Odor (C1)	Living Doo		Season water Table (C2)
X Drift Do	nosits (B3) (Nonrive	rine)		of Redu	ced Iron (C			fish Burrows (C8)
Surface	Soil Cracks (B6)	inie,	Recent Ir	on Reduc	ced iron (O	∽) wed Soils ((C6) Satu	ration Visible on Aerial Imagery (C9)
Inundat	ion Visible on Aerial I	lmaderv (B	37) Other (E)	olain in F	Remarks)		Shal	low Aquitard (D3)
Water-S	Stained Leaves (B9)	3-7(-		and a set of the	,		FAC	-Neutral Test (D5)
Field Obser	rvations:					1		
Surface Wa	ter Present? Y	′es (No í Depth (ii	nches):				
Water Table	Present? Y	'es C	No 🌘 Depth (ii	nches):				
Saturation F	Present? Y	es C	No 🕢 Depth (ii	nches):				
(includes ca	pillary fringe)					Wetla	and Hydrology P	resent? Yes (● No (
Aerial from	n CaSIL April 200	i gauge, m)4	ionitoring well, aerial	photos,	previous in:	spections),	n available:	
Domenter:	. Subil, riprii 200							
rkemarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer	/Sutter/Sacramento	Sampling Date: 5/5/08
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: W 181e
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township,	Range: Please see Location	n Map for all Sec, Town, Range
Landform (hillslope, terrace, etc.):	Local relief (concav	ve, convex, none):None	Slope (%):3
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56" \	W Datum: WGS84
Soil Map Unit Name: Xerofluvents		NWI classific	ation: Seasonal Wetland
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🌔 🛛 N	o 🌈 👘 (If no, explain in R	emarks.)
Are Vegetation Soil or Hydrology significantly	disturbed? A	re "Normal Circumstances" p	oresent? Yes 🌘 🛛 No 🤇
Are Vegetation Soil or Hydrology naturally pro	oblematic? (I	f 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 Sampled Area			
Wetland Hydrology Present?	Yes 🌘	No 🥟	within a Wetland?	Yes	No (
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test wo	orksheet			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant	t Species	1		
1		2 21		That Are OBL, FACV	V, or FAC	D: .	4	(A)
2.				Total Number of Dor	ninant			
3.				Species Across All S	strata:		1	(B)
4.					Onesiae			A-DF 30
	%	с ч	40) -	That Are OBL FACV	V or FA	C: 10	0.0%	(A/B)
Sapling/Shrub Stratum					.,	10	0.0 /0	())
1.				Prevalence Index w	orkshee	et:		
2.				Total % Cover o	f:	Multip	ly by:	-
3.			4.	OBL species	15	x 1 =	15	
4.				FACW species	25	x 2 =	50	
5.	<u>.</u>		2	FAC species	25	x 3 =	75	
Total Cover	r: %	- <u>-</u>		FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
¹ .Rumex crispus	10	Yes	FACW	Column Totals:	65	(A)	140	(B)
2. Eleocharis macrostachya	15	Yes	OBL		02			
^{3.} Lolium multiflorum	25	Yes	FAC	Prevalence Ind	ex = B/A	<i>\</i> =	2.15	
4. Polypogon monspeliensis	5		FACW	Hydrophytic Vegeta	ation Ind	icators:		
5. Juncus ssp.	10	Yes	FACW	🖌 🗙 Dominance Tes	t is >50%	3		
6.	3	80 1	26	🛛 🗙 Prevalence Inde	x is ≤3.0	1		
7.			<u>};;</u>	Morphological A	daptatior	ns ¹ (Provide	e supporti	ng
8.		-	53	- data in Rema	arks or or	n a separat	e sheet)	
Total Cover	. 65 a/	-	57 	Problematic Hyd	lrophytic	Vegetation	1 (Explair	1)
Woody Vine Stratum	0.5 %							
1.				¹ Indicators of hydric	soil and	wetland h	ydrology	must
2.	- C	÷	40°-	be present.				
Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum 35 % % Cover	r of Biotic C	Crust	%	Present?	Yes (e	No (
Remarks:		<i>22</i>		1				

Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur	es Type ¹	1.002	Textu	re ³	Remarks
0-5	7 5YR 3/4	_ <u></u> 100					Clay loan		
5	7.5 TR 3/4	07	7.5VP 5/0	2	C	<u>.</u> М	Clay roan		
	7.31K 3/4	97	7.51K 5/9		<u> </u>	- 11/1			
<i></i>	- 647			-198			1. 18		
				-00			: (.		
2							· · · · · · · · · · · · · · · · · · ·		
6		1917		1975				212	
		an i	5						
¹ Type: C=0	Concentration, D=De	pletion, RM	/=Reduced Matrix.	² Locatio	on: PL=Por	e Lining, F	RC=Root C	hannel, M	=Matrix.
³ Soil Textur	es: Clay, Silty Clay,	Sandy Cla	iy, Loam, Sandy Clay	Loam, S	Sandy Loan	n, Clay Loa	am, Silty C	lay Loam,	Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applical	ble to all L	RRs, unless otherwise	e noted.)			Indica	tors for Pr	oblematic Hydric Soilsً:
Histoso	ol (A1)		Sandy Redo	x (S5)			1	cm Muck	(A9) (LRR C)
Histic E	Epipedon (A2)		Stripped M	atrix (S6) 		2	cm Muck	(A10) (LRR B)
Black F	1ISUC (A3) Ion Sulfido (A4)			cky ivine ved Matr	ral (F1) iv (F2)			educed Vi Ind Parent	ertic (F18) Material (TE2)
Stratifie	ed Lavers (A5) (LRR	C)	Depleted M	latrix (F3	ix (i 2) i)			ther (Expl	ain in Remarks)
1 cm M	luck (A9) (LRR D)	-,	Redox Dar	k Surface	, e (F6)			606.940.094 0 -969 - 969	n olasan karala Neducia Kalana kara 🥊
Deplete	ed Below Dark Surfa	ce (A11)	Depleted D	ark Surfa	ace (F7)				
Thick E	Dark Surface (A12)		Redox Dep	ressions	(F8)		4	_	
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)			"Indic	ators of hy	drophytic vegetation and
Restrictive	Laver (if present)						we	suanu nyur	ology must be present.
TyperC1	av nan								
Denth (ii	nches):5						Hydric	Soil Pres	cent? Ves (No (
Romarke:			<u></u>				nyunu	John Tea	
Komarka.									
IYDROLO	DGY								
Wetland H	ydrology Indicators	:						Secondary	Indicators (2 or more required)
Primary Ind	licators (any one indi	cator is su	fficient)				[Water	Marks (B1) (Riverine)
Surface	e Water (A1)		Salt Crust	t (B11)			[Sedim	ent Deposits (B2) (Riverine)
🔄 High W	/ater Table (A2)		🗙 Biotic Cru	st (B12)			[Drift D	eposits (B3) (Riverine)
Saturat	tion (A3)		Aquatic Ir	ivertebra	tes (B13)		[X Draina	ige Patterns (B10)
Water	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide	Odor (C1)		[Dry-Se	eason Water Table (C2)
X Sedime	ent Deposits (B2) (No	onriverine) X Oxidized	Rhizosph	neres along	Living Ro	ots (C3)	Thin M	luck Surface (C7)
X Drift De	eposits (B3) (Nonrive	erine)	Presence	of Redu	ced Iron (C	4) Had Daila	(06)	Crayfie	sh Burrows (C8)
	tion Visible on Aerial	Imagany	B7) Other (Ev	nlain in F	2000 In Plus	weu Solis			w Aquitard (D3)
Water-	Stained Leaves (B9)	inagery (plainini	(emarks)		F	EAC-N	leutral Test (D5)
Field Obse	rvations:	3				1			
Surface Wa	ter Present?	Yes 🔿	No 🍙 🛛 Depth (in	iches):					
Water Table	e Present?	Yes C	No (Depth (in	iches):					
Saturation I	Present?	Ves C	No C Depth (in	iches):					
(includes ca	apillary fringe)	163 (Wet	land Hydr	ology Pre	esent? Yes 🛈 No 🤇
Describe R	ecorded Data (strear	n gauge, n	nonitoring well, aerial	photos, p	previous in	spections)	, if availabl	e:	
	n Casil, April 20	-0 4							
Remarks:									

Project/Site: PG&E Line 407(East)	City/County:Placer/Si	utter/Sacramento	Sampling Date: 5/5/08		
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: ${f W}$]	.82e	
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township, Ra	ange:Please see Locatio	on Map for all Sec, T	'own,Range	
Landform (hillslope, terrace, etc.):	Local relief (concave,	convex, none):None	Slope (%):1	
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum:	VGS84	
Soil Map Unit Name: Xerofluvents		NWI classifi	cation: Vernal Pool	21	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🕞 👘 No () (If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology significantly	/ disturbed? Are	"Normal Circumstances"	present? Yes 🌘	No	
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If n	eeded, explain any answe	ers in Remarks.)		
				101	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🌘 Yes 🌘	No (No (is the Sampled Area			
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes (No (
Remarks:						

and databal to databal in Zanton ya	Absolute	Dominant	Indicator	Dominance Test w	orksheet	:		
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominar	nt Species	8		
1		-		That Are OBL, FAC	W, or FAG	D:	3	(A)
2.				Total Number of Do	minant			
3.	19. D			Species Across All	Strata:		3	(B)
4.			a -		+ On a si a s			4-19- 30-
	%		c	That Are OBL FAC	It Species	C' 10	0.0%	(A/B)
Sapling/Shrub Stratum					,	10	0.0 /0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1.				Prevalence Index v	vorkshee	et:		
2.				Total % Cover @	of:	Multip	oly by:	-
3.			··	OBL species	20	x 1 =	20	
4.				FACW species	20	x 2 =	40	
5.	<u>.</u>		<u>2</u>	FAC species	30	x 3 =	90	
Total Cover	. %			FACU species		x 4 =	0	
Herb Stratum				UPL species		x 5 =	0	
¹ .Lolium multiflorum	30	Yes	FAC	Column Totals:	70	(A)	150	(B)
² .Plagiobothrys stipitatus	20	Yes	OBL				the set of	
³ . Psilocarphus ssp.	20	Yes	FACW	Prevalence Inc	dex = B/A	<i>d</i> =	2.14	
4.	0			Hydrophytic Veget	ation Ind	licators:		
5.			2 <u></u>	🖌 Dominance Tes	st is >50%	5		
6.	3		ă.	Revalence Inde	ex is ≤3.0	1		
7.		-	÷	Morphological A	Adaptation	ns ¹ (Provid	e support	ng
8.				- data in Rem	arks or or	n a separat	e sheet)	
Total Cover	70 %		3	Problematic Hy	drophytic	Vegetatior	¹ (Explair	1)
Woody Vine Stratum	. 70 %							
1.				¹ Indicators of hydric	soil and	wetland h	ydrology	must
2.	<u></u>			be present.				
Total Cover	: %		2	Hydrophytic				
% Bare Ground in Herb Stratum 30 % % Cover	r of Biotic C	Crust	%	Present?	Yes (No (`	
Remarks:		20		1 7.5				

Profile Des	cription: (Describe	to the de	pth needed to docun	nent the	indicator	or confirr	n the absence of indic	ators.)
Depth	Matrix	100-100	Redox	Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Турет	Loc ²	Texture ³	Remarks
0-5	7.5YR 3/4	100		<u></u>	a	(m	Silty clay loam	;
5-10	7.5YR 3/4	95	7.5YR 5/9	5	<u>C</u>	3 <u>40 - 02</u>	Clay loam	
17	6.57	14 3		38			207 - 5.44 3	
20	<					(, .	
<u></u>				(i	27 <u></u>	N		
	207			a 			10	
2								
	- 510-						۰ <u>۰</u>	
¹ Type: C=C	Concentration, D=Dep	letion, RM	1=Reduced Matrix.	² Locatio	n: PL=Pore	e Lining, R	C=Root Channel, M=M	atrix.
°Soil Textur	es: Clay, Silty Clay, S	Sandy Cla	y, Loam, Sandy Clay	Loam, S	andy Loam	, Clay Loa	am, Silty Clay Loam, Silt	Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicab	le to all Li	RRs, unless otherwise	noted.)			Indicators for Proble	ematic Hydric Soils:
HISTOSC	ninedon (A2)		Sandy Redox	((S5) (trix (S6)			2 cm Muck (A9	
Black H	listic (A3)		Loamv Muc	kv Miner	al (F1)		Reduced Vertic	(F18)
Hydrog	en Sulfide (A4)		Loamy Gley	ed Matri	x (F2)		Red Parent Ma	terial (TF2)
Stratifie	ed Layers (A5) (LRR (C)	Depleted Ma	atrix (F3)		X Other (Explain	in Remarks)
1 cm M	luck (A9) (LRR D)		Redox Dark	Surface	(F6)			
Deplete	ed Below Dark Surfac	e (A11)	Depleted Da	ark Surfa	ice (F7)			
Thick E)ark Surface (A12)		Redox Depr	ressions	(F8)			
Sandy	Mucky Mineral (S1)		X Vernal Pool	s (F9)			⁴ Indicators of hydro	phytic vegetation and
Sandy	Gleyed Matrix (S4)						wetland hydrolog	gy must be present.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):		20 20				Hydric Soil Present	? Yes 🖲 🛛 No 🤇
Remarks:								
							~	
Wetland Hy	drology indicators:						Secondary Ind	icators (2 or more required)
Primary Ind	icators (any one indic	ator is suf	ficient)				Water Mai	rks (B1) (Riverine)
Surface	e Water (A1)		Salt Crust	(B11)			Sediment	Deposits (B2) (Riverine)
High W	′ater Table (A2)		Biotic Crus	t (B12)			Drift Depo	sits (B3) (Riverine)
Saturat	ion (A3)		Aquatic Inv	/ertebrat	es (B13)		× Drainage	Patterns (B10)
Water I	Marks (B1) (Nonriver	ine)	Hydrogen	Sulfide (Odor (C1)		Dry-Seaso	on Water Table (C2)
X Sedime	ent Deposits (B2) (No	nriverine) X Oxidized R	lhizosph	eres along	Living Ro	ots (C3) 📃 Thin Muck	: Surface (C7)
X Drift De	eposits (B3) (Nonrive	rine)	Presence of	of Reduc	ed Iron (C4	ł)	Crayfish E	Burrows (C8)
Surface	e Soil Cracks (B6)		Recent Iro	n Reduc	tion in Plow	/ed Soils (C6) Saturation	Visible on Aerial Imagery (C9)
X Inunda	tion Visible on Aerial I	lmagery (I	37) 🗌 Other (Exp	lain in R	emarks)		Shallow A	quitard (D3)
Water-	Stained Leaves (B9)						FAC-Neut	ral Test (D5)
Field Obse	rvations:							
Surface Wa	ter Present? Y	íes (No í 🔹 Depth (inc	ches):				
Water Table	e Present? Y	es 🤇	No 🌘 🛛 Depth (ind	ches):				
Saturation F	Present? Y	'es (No 💽 🔹 Depth (inc	ches):				
(includes ca	pillary fringe)					Wet	land Hydrology Preser	nt? Yes (No (
Describe Ro	ecorded Data (stream	i gauge, m	ionitoring well, aerial p	photos, p	revious ins	pections),	if available:	
Aerial from	n CaSIL, April 200	74						
Remarks:								

Project/Site: PG&E Line 407(East)	City/County:Placer/Si	utter/Sacramento	Sampling Date: 5/5/()8
Applicant/Owner: Pacific Gas and Electric		State:CA	Sampling Point: ${ m W}$ 1	.83e
Investigator(s):Erin Hess (USACE), E. Alfieri	Section, Township, Ra	ange:Please see Locatio	on Map for all Sec,T	'own,Range
Landform (hillslope, terrace, etc.):	Local relief (concave,	convex, none):None	Slope (%):1
Subregion (LRR):C - Mediterranean California Lat: 38	45'03.51"N	Long: 121 30'05.56"	W Datum: V	VGS84
Soil Map Unit Name: Xerofluvents		NWI classifi	cation: Vernal Pool	21
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🕞 👘 No () (If no, explain in F	Remarks.)	
Are Vegetation Soil or Hydrology significantly	/ disturbed? Are	"Normal Circumstances"	present? Yes 🌘	No
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If n	eeded, explain any answe	ers in Remarks.)	
				890

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🌘 Yes 🌘	No (No (is the Sampled Area			
Wetland Hydrology Present?	Yes (No 🦳	within a Wetland?	Yes (No (
Remarks:						

and count on divide of 20000 to	Absolute	Dominant	Indicator	Dominance Test works	heet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Sp	ecies		
1.				That Are OBL, FACW, o	r FAC:	3	(A)
2.				Total Number of Domins	ant		
3.				Species Across All Strat	a:	3	(B)
4.		20	a.		100000-00-00-00		0.00
	%			 Percent of Dominant Sp That Are OBL_EACW_ of 	acies r FAC:	100.0.0/	(Δ/B)
Sapling/Shrub Stratum					117.0.	100.0 %	(~0)
1.				Prevalence Index work	sheet:		
2.				Total % Cover of:		Multiply by:	_
3.				OBL species 3	0 x 1	= 30	
4.	-2			FACW species	; x2	= 10	
5.		-	<u></u>	FAC species 6	5 x 3	= 195	
Total Cove	er: %			FACU species	x 4	= 0	
Herb Stratum	· · · · · · · · · · · · · · · · · · ·			UPL species	x 5	= 0	
¹ .Hordeum marinum ssp. gussoneanum	45	Yes	FAC	Column Totals: 1()() (A)	235	(B)
² .Plagiobothrys stipitatus	20	Yes	OBL	1.1			
³ .Lolium multiflorum	20	Yes	FAC	Prevalence Index	= B/A =	2.35	
4. Eryngium castrense	5		FACW	Hydrophytic Vegetatio	n Indicato	ors:	
5. Psilocarphus brevissimus	10		OBL	Dominance Test is :	>50%		
6.	-2	A	10 ⁻	Prevalence Index is	≤3.0 ¹		
7.		9.4" - #*	22 	Morphological Adap	tations ¹ (F	rovide support	ing
8.	-2			- data in Remarks	or on a se	parate sheet)	
Total Cove	er: 100 %			Problematic Hydrop	hytic Vege	etation' (Explai	n)
Woody Vine Stratum	100 %						
1.				¹ Indicators of hydric soi	and wet	and hydrology	must
2.				be present.			
Total Cove	er: %	940 1	3 ¹	Hydrophytic			
% Bare Ground in Herb Stratum% % Cove	er of Biotic (Crust	%	Present? Yes	•	No (
Remarks:		27	15	1			

Profile Descri	ption: (Describe f	o the de	pth neede	ed to docu	ment the	indicator	or confirm	n the abser	nce of indicate	ors.)	
Depth _	Matrix			Redo	x Feature	es		_	•	_2	- 7
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	Texture		Rema	rks
0-5 7.	5YR 3/4	100	a:			e		Clay loam			
57.	5YR 3/4	95	7.5YR 5	5/9	5	<u>C</u>		Clay pan			
							(A) ()	2			
								(ii			
		-			185			No. 1	642		
	ð	-			<u>.</u>			2. Not	232		
¹ Type: C=Con	centration D=Denl	etion RM	/=Reduce	d Matrix	² Locatio	n' PI =Pore	Lining R	C=Root Ch	annel M=Matr	v	
³ Soil Textures:	Clay, Silty Clay, S	andy Cla	ay, Loam, S	Sandy Clay	Loam, S	andy Loam	, Clay Loa	am, Silty Cla	y Loam, Silt Lo	oam, Silt, Loan	ny Sand, Sand.
Hydric Soil Ind	icators: (Applicabl	e to all L	RRs, unles	s otherwise	noted.)			Indicato	rs for Problem	atic Hydric So	ils:
Histosol (A	(1)			Sandy Redo	x (S5)			1 c	m Muck (A9) (I	LRR C)	
Histic Epip	edon (A2)			Stripped M	atrix (S6)			2 c	m Muck (A10)	(LRR B)	
Black Histi	c (A3) Sulfide (A4)			Loamy Muc	ky Miner	ral (F1)			duced Vertic (F	518) Hol (TEQ)	
Stratified L	avers (A5) (LRR C	3		Depleted M	latrix (F3) }			ier (Explain in	Remarks)	
1 cm Mucł	(A9) (LRR D)	,	H	Redox Darl	Surface	, e (F6)				· · · · · · · · · · · · · · · · · · ·	
Depleted E	Below Dark Surface	e (A11)		Depleted D	ark Surfa	ace (F7)					
Thick Dark	Surface (A12)			Redox Dep	ressions	(F8)		4	e 1	P	No. Alexandre
Sandy Mu	cky Mineral (S1)		×	Vernal Poo	IS (F9)			"Indicat	ors of hydroph and hydrology	ytic vegetation must be prese	and
Restrictive La	ver (if present):							weu	and nyarology	indat be prese	
Type:	joi (ii prosoni)i										
Depth (inch	es):							Hvdric S	oil Present?	Yes 🜘	No
Remarks: Cla	vpan at 5"										
	· F										
	.,										
HYDROLOG	Y										
Wetland Hydro	ology Indicators:							Se	condary Indica	tors (2 or mor	<u>e required)</u>
Primary Indicat	tors (any one indica	ator is su	fficient)		(= ()				Water Marks	(B1) (Riverin	e)
Surface W	ater (A1)			Salt Crust	(B11)				Sediment De	posits (B2) (R	iverine)
High wate	(A2)			Aquatic In	SL(BTZ) Vortobrat	oc (R13)] Dritt Deposit	S (B3) (Riverii ttorne (B10)	ie)
Water Mar	(AS) ks (B1) (Nonriveri	ne)		Hydroden	Sulfide (Ddor(C1)			Drainage ra	Water Table ((22)
Sediment	Deposits (B2) (Nor	riverine		Oxidized I	Rhizosph	eres along	Livina Ro	ots (C3)	Thin Muck S	urface (C7)	
X Drift Depo:	sits (B3) (Nonriver	ine)		Presence	of Reduc	ced Iron (C4	•)		Crayfish Bur	rows (C8)	
Surface So	oil Cracks (B6)			Recent Iro	n Reduc	tion in Plow	ed Soils ((C6)	Saturation V	isible on Aeria	l Imagery (C9)
X Inundation	Visible on Aerial Ir	magery (B7)	Other (Ex	olain in R	lemarks)			Shallow Aqu	itard (D3)	
Water-Stai	ned Leaves (B9)								FAC-Neutral	Test (D5)	
Field Observa	tions:			estraint which by							
Surface Water	Present? Ye	es (No (Depth (in	ches):						
Water Table Pr	resent? Ye	es (No (Depth (in	ches):						
Saturation Pres	sent? Ye arv fringe)	es (No 🌘	Depth (in	ches):		Wet	land Hydrol	ogy Present?	Yes 🛈	No C
Describe Reco	rded Data (stream	gauge, n	nonitoring	well, aerial	photos, p	previous ins	pections),	if available:		- ward=s 58.73	indertoiseant of the
Aerial from (CaSIL, April 200	4									
	····-, · ··· · ·										

Attachment D. Rice Field Jurisdiction Information

Addendum to the Delineation of Waters of the U.S. PG&E Line 407 Natural Gas Transmission Pipeline Project Sacramento, Placer, Yolo, and Sutter Counties, CA (August 2007)

Non-Jurisdictional Status of Rice Fields within the Project Survey Area July 2008

I. Introduction

The PG&E Line 407 Natural Gas Transmission Pipeline Project (Project) is located within portions of Yolo, Placer, Sutter and Sacramento Counties, CA. A number of cultivated rice fields exist within the central portion of the Project Area. This specific portion of the Project area occurs in Sutter and Sacramento counties, and is located east of the Sacramento River and west of Natomas Road.

A formal wetland delineation was performed for the Project in 2006 and 2007 by Gallaway Consulting, Inc. and submitted to the U.S. Army Corps of Engineers (USACE) for verification in August 2007. Following site visits in April and May 2008 with USACE project manager Erin Hess, changes were made to the delineation per Ms. Hess's comments with the exception of the jurisdictional status of the rice fields within the Project area. Throughout the delineation process, actively farmed areas, including rice fields, were not identified as distinct features, wetland or otherwise. While it was suggested that all rice fields within the Project area be delineated as jurisdictional wetlands, based on our interpretation of USACE policy, the delineation has not been amended in regards to rice fields.

This addendum provides additional information to support the position that the identified rice fields are not under the jurisdiction of USACE as authorized by the Clean Water Act (CWA) Section 404. Using the approach outlined in the U.S. Army Corps' Regulatory Branch Memorandum on irrigated wetlands (2007-01, March 13, 2007), we have assessed the rice fields within the project area and believe that the data demonstrates that they are not jurisdictional wetlands. Our assessment is provided below and we look forward to further discussions with USACE staff to determine the jurisdiction of these areas.

II. Analysis of Rice Fields Using USACE Policy on Irrigated Wetlands

According to the USACE, Sacramento District Regulatory Branch Memorandum 2007-01 (USACE March 13, 2007), artificially irrigated lands are generally not jurisdictional if without irrigation they would revert to uplands. The best method to verify jurisdictional status would be to discontinue irrigation. However, the Corps' memorandum notes that it is impractical in many cases to do so and provides an alternative approach to verify nonjurisdiction, including aerial imagery, historical documentation, and historical and current data regarding the hydrology, soils and historical conditions of the site in question provided by federal, state, and local agencies, as well as, the landowner or neighbors (USACE March 13, 2007). It is impractical in this case to halt irrigation on active rice fields and thus, we have evaluated the rice fields using the alternative approach provided in the memorandum.

1. <u>Aerial Imagery and Land Use Information</u>

Historically, the area immediately surrounding the Sacramento River would periodically flood during high flow events; however, due to the construction of an extensive levee system along the Sacramento River and its tributaries, the land within the Project area immediately surrounding the Sacramento River no longer floods naturally. Although a comprehensive flood control plan wasn't authorized by congress until 1917, construction of levees in the Sacramento area began in 1850 (Sacramento Area Flood Control Agency, 2008).

Based on topographic maps from 1905, no permanent water features occurred within the Project area (Attachment A). Water features which were present south of the Project area, such as Bush Lake, were described as "intermittent" (Tugel, 1993). These "lakes" were hydrologically supported by seasonal precipitation and slowly dried down during the summer months (Tugel, 1993). Numerous levees are depicted on the 1905 topographic map (Attachment A), verifying the extent of the Sacramento River levee system at that date.

Aerial images are one resource used to depict the non-static nature of agricultural fields, specifically those in rice production, and show the lack of naturally ponding features within the fields during the winter months, prior to the planting of rice and subsequent application of irrigation water (Terraserver.com). Additionally, fields exist within and adjacent to the Project area that are currently in hay, row crop, and tree crop production, which is further evidence of the area's upland status.

2. <u>Hydrological Characteristics</u>

The area in question has been in rice and other intensive agricultural production for more than 100 years, which has drastically altered and modified the soils, the micro-topography, and the water table. The long standing presence of levees controlling the natural flow of the Sacramento River has allowed for a patchwork of agricultural fields, managed under dry land and irrigated systems. Throughout the years of agricultural production the land has been continually manipulated and re-contoured, further changing the original hydrology of the region. Drainage systems have been utilized to lower water tables in the area to compensate for the fact that the elevation of the fields is lowered on a regular basis due to farming practices. "Many areas that were once at mean sea level are now 10 to 20 feet below sea level" and "the annual rate of [ground water] decline has ranged from an average of one foot in some areas to 3 feet in others" (Tugel, 1993).

Due to this intensive management, and the alteration of the natural surface flow regime of the site, as well as the lowering of the region's water-table level, wetland features which may have been present prior to the 1900's no longer exist. Additionally, since the hydrology of the rice fields is maintained by artificially placed irrigation water, the

"normal circumstances" (33CFR 328.3 (b)) of the site would be upland habitat if irrigation water were removed. The USACE has clarified the phrase "normal circumstances" as "...an evaluation of the extent and relative permanence of the physical alteration of wetlands hydrology and hydrophytic vegetation" (USACE Regulatory Guidance Letter 90-07). The extensive and permanent Sacramento River levee system has created a "normal circumstance" within and adjacent to the Project area, that includes the permanent removal of the historical hydrology of the area, resulting in highly productive dry land and irrigated agricultural fields. The productivity of the rice fields within the project area is dependent upon the application of water delivered via an intricate network of canals and irrigation ditches, supplied primarily through irrigation districts. Hence, the rice fields should not be considered jurisdictional since they have been created in and are artificially maintained in what are now uplands.

3. <u>Soils Information</u>

Hydric soils were determined to be present within the site, based on Natural Resources Conservation Services (NRCS) soil maps and GCI field assessment; however criteria utilized for the determination, such as presence of concretions, high organic streaking within the sandy soil layers, low-chroma color, and reducing conditions would all be present due to the annual flooding of the site for rice production for more than 100 years. Additionally, Tugel states that "where artificially drained, the soil retains [morphological] features even though the water table may be lowered or may be high for a shorter period." This point is reiterated in the *SPK Regulatory Branch Memorandum 2003-04, Subject: Irrigated Wetlands*, which states "...Specifically, hydrophytic vegetation can be established and maintained solely by irrigation practices. Also, hydric soils usually develop over a long period of time, and can exhibit hydric soil indicators even if the hydrology has been removed by such activities as dams, diversions, ditches, and other modifications." Although soils within the Project area were determined to contain hydric indicators, these conditions are the result of season long inundation of the fields through the application of irrigation water.

5. <u>Water Delivery Information</u>

Rice fields are actively managed through normal farming activities, including the biannual application of water, which mimics seasonal flooding. The fields are flooded shortly after planting in the early spring and remain flooded throughout most of the summer growing season. The elevation of the fields is above the ordinary high water mark (OHWM) of adjacent canals and irrigation ditches, so water must be pumped onto the fields or to a location from which it can be gravity fed onto the fields. Vegetation of the site is primarily dominated by *Oryza satvia, Epilobium sp., Cyperus eragrostis, Polygonum hydropiper* and *Typha* sp., as well as, various annual grasses and forbs. This vegetation is characteristic of rice fields, due to the irrigation regime, specifically the frequency and duration of these man-induced flooding events.

Most rice fields are additionally "flooded-up" in the late fall for overwintering waterfowl. However, this practice has only begun occurring more recently as a result of stricter air quality standards and a collaborative effort between the State agencies, private landowners and waterfowl hunting enthusiasts. Aerial photos of the Project site and adjacent areas prior to this annual application of water in the winter show the fields as not maintaining surface hydrology (Terraserver.com).

Typically, rice fields in the Central Valley have been leveled with the use of lasers, to allow for fields to adequately drain when necessary to meet production cycles. This type of land preparation allows for the precise management of water levels, necessary for weed control and ideal rice growing conditions. From aerial photos of the site it is evident that the fields within the Project area have been "laser-leveled" rather than contour farmed, allowing for water to be placed on and be drained of off the fields (Terraserver.com).

6. <u>Weather Information</u>

The project area is located within the Northern Central Valley of California. California's Central Valley is characterized by a Mediterranean climate, with cool, rainy winters and hot, dry summers. Summers in California's Central Valley can go from 2-5 months without any significant amount of rainfall. The average annual temperature for the project area ranges from 51-75°F, with the hottest temperatures occurring in July, reaching on average a maximum of 94°F (weather.com, 2008). The average yearly rainfall totals for the area is approximately 19.37 inches, with the maximum annual precipitation occurring in January (weather.com, 2008). Due to the consecutive months lacking rain during the summer, water features and wetlands in the Central Valley tend to dry down significantly or completely. The rice fields in the project area, however, are artificially flooded during the summer months, when under normal conditions, the area would be dry during the summer.

III. Prior Converted Wetlands

Rice fields within the Central Valley are a unique situation that fit under both irrigated wetland and prior converted (PC) cropland. The rice fields within the Project area meet the requirements to be considered PC cropland in that they have been previously modified to an extent which removed any natural hydrology that may have existed onsite. Prior converted croplands are defined by the NRCS, formerly Soil Conservation as "wetlands which were both manipulated (drained or otherwise Service (SCS), physically altered to remove excess water from the land) and cropped before 23 December 1985, to the extent that they no longer exhibit important wetland values (Section 512.15 of the National Food Security Act Manual, SCS August 1988). Specifically, PC cropland is inundated for no more than 14 consecutive days during the growing season" (USACE, 1990). Though the rice fields in question are artificially flooded for more than 14 consecutive days, there is no natural hydrology to allow the land to return to its natural state. The NRCS has clarified this situation by stating that if it is "[concluded] that drainage was adequate to remove the wetland hydrology, the site can be considered PC" (NRCS, 2006). As stated above, the natural hydrology of the area has been permanently altered due to the extensive levee system and the continued management of the agricultural land, including the current laser-leveling technology. Specifically, the rice fields are managed and designed to be drained and flooded on demand through a maze of irrigation ditches. These changes and management practices of the rice fields have clearly removed the natural wetland hydrology from the area. Although it is indeterminate as to the upland/wetland status of the fields within the Project area prior to 1850, they have been in continual agricultural production since the late 1800's, which is when the first levee was built in the Sacramento area. Subpart (8) of 33 CFR 328.3 (a), which provides the definition of "waters of the United States", indicates that "waters of the United States do not include prior converted cropland".

IV. Conclusions

In summary, it is our finding that the rice fields within the Project area, while demonstrating some indication of positive wetland parameters, are maintained by the application of irrigation water. Further, through analysis of historical data, past and present management activities, and current regional conditions the "normal circumstances" of the Project site and surrounding area, following the building of the Sacramento River levee system, is that of upland. According to item 7.c. of the above referenced "irrigated wetlands" memo, "If there are positive indicators for soils and vegetation, but the relative contribution of irrigation versus natural hydrology in maintaining these conditions cannot be precisely determined, then consideration must be give as to whether the current condition reflects the "normal circumstances" of the area.

Additionally, provided that the rice fields within the Project site contained historic wetlands prior to the installment of the levee system, they meet the criteria of PC cropland. Although this status is designated through NRCS, a defined set of criteria exists for the designation, and the rice fields in questions meet those criteria. As stated above, PC cropland is not included under those areas defined as waters of the U.S.

This addendum was provided to present additional information related to the jurisdictional status of rice fields within the Project area. While not an exhaustive discourse, it provides applicable evidence and justification as to the non-jurisdictional status of these fields based on our understanding of the available USACE policy.

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U.S. Army Corps of Engineers. September 26, 1990. Regulatory Guidance Letter 90-07. Subject: Clarification of the Phrase "Normal Circumstances" as it Pertains to Cropped Wetlands. Sacramento District.









December 10, 2008

- To: Brian Vierria U.S. Army Corps of Engineers, Regulatory Branch, Sacramento District 1325 J Street, Room 1480 Sacramento, CA 95814-2922
- Re: Revised Delineation of Waters of the U.S. Maps for the PG&E Line 407 Natural Gas Transmission Pipeline Project, Placer, Sutter, Yolo, and Sacramento Counties, CA (GCI# 2006-043).

Dear Mr. Vierria:

Enclosed please find the revised Delineation of Waters of the U.S. maps (Attachment A) and Table of Waters of the U.S. Delineated (Attachment B) for the PG&E Line 407 Natural Gas Transmission Pipeline project. The delineation maps were revised to include rice fields as wetland features based on the USACE's comments during and subsequent to the field visits with Ms. Erin Hess and Gallaway Consulting staff conducted on January 30-31, March 3, April 17, and May 5, 2008. The enclosed maps and table replace the maps and table included as Attachments A & B to the letter addendum to the Delineation of Waters of the U.S. for the PG&E Line 407 Natural Gas Transmission Pipeline Project (Gallaway Consulting, Inc., July 23, 2008).

Feel free to contact me at (916) 923-7030 with any questions or comments.

Sincerely,

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Chris Ellis, AICP Principal Planner

Site #	Feature and Map Number	Туре	Proposed Crossing Method	Direct Impacts Acreage	Indirect Impacts Acreage	Federally-listed Species	Cultural Resources
1	Hungry Hollow Canal/ L406 Map 3A	Hungry Hollow Canal	Open Cut	0.05	0.01	GGS	Yes
2	Unnamed Canal 1/ L406 Map 3D	Unnamed Drainage Canal	Open Cut	0.02	0.01	GGS	No
3	Unnamed Canal 2/ L406 Map 3E	Unnamed Drainage Canal	Open Cut	0.02	0.01	GGS	No
5	Goodnow Slough/ L406 Map 3F	Goodnow Slough	Open Cut	0.03	0.01	CTS, GGS	Yes
6	Seasonal Wetland Swale #2/ L406 Map 3H	Seasonal Swale; Erosional Channel	Open Cut	0.03	0	CTS	No
7	Acacia Canal/ L406 Map 3K	Acacia Canal	Open Cut	0.02	0.01	GGS	No
12	OW13/ L407 Map 22	Unnamed Drainage Canal	Open Cut	0.05	0.01	GGS	No
13	OW14/ L407 Map 23	Unnamed Drainage Canal	Open Cut	0.06	0.02	GGS	No
14	OW15/ L407 Map 23	Unnamed Drainage Canal	Open Cut	0.06	0.02	GGS	No

PG&E Line 406 and Line 407 Pipeline Project Jurisdictional Waters Impacts

Site #	Feature and Map Number	Туре	Proposed Crossing Method	Direct Impacts Acreage	Indirect Impacts Acreage	Federally-listed Species	Cultural Resources
17	NJ04/ L407 Map 26	Unnamed Drainage Canal	Open Cut	0.03	0.01	GGS	No
18	OW122/ L407 Map 27	Unnamed Drainage Canal	Open Cut	0.03	0.01	GGS	No
21	OW134/ L407 Map 31	Unnamed Drainage Canal	Open Cut	0.05	0.01	GGS	No
24	OW131/ L407 Map 36	North Drainage Canal	Open Cut	0.11	0.03	GGS	No
29	OW128/ L407 Map 40	Unnamed Drainage Canal	Open Cut	0.05	0.01	GGS	No
30	OW127/ L407 Map 41 WF164e, WF162e, WF161e, WF160e, WF159e, WF158e, WF166e, WF157e/ L407 Maps 41, 42	Unnamed Drainage Ditch; Seasonal Wetlands	Open Cut	4.80	0.01	GGS	No
33	WF155e/ L407 Map 43	Seasonal Wetland	Open Cut	0.02	0	B. lynchi	No
35	WF154e/ L407 Map 44	Seasonal Wetland	Open Cut	0.02	0	B. lynchi	No
36	WF060e, WF061e/ L407 Map 45	Seasonal Wetlands	Open Cut	0.07	0	B. lynchi	No
37	WF062e, WF179e, WF059e / L407 Map 46	Seasonal Wetlands	Open Cut	0.08	0	B. lynchi	No
Site #	Feature and Map Number	Туре	Proposed Crossing Method	Direct Impacts Acreage	Indirect Impacts Acreage	Federally-listed Species	Cultural Resources
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38	WF114e/ L407 Map 47	Seasonal Swale	Open Cut	0.06	0	B. lynchi	No
39	WF144e/ L407 Map 47 WF054e/ L407 Maps 47, 48	Seasonal Wetland and Riparian Wetland	Open Cut	0.05	0	B. lynchi	No
40	WF050e/ L407 Map 49	Seasonal Swale	Open Cut	0.05	0	B. lynchi	No
42b	WF048e/ L407 Map 50	Seasonal Wetland	Open Cut	0.10	0	B. lynchi	No
43a	WF029e, WF030e/ L407 Map 51	Seasonal Swale, Seasonal Wetland/	Open Cut	0.03	0	B. lynchi	No
43c	WF174e, WF173e/ L407 Map 53	Seasonal Swales/	Open Cut	0.31	0	B. lynchi	No
45	WF002e/ L407 Map 54	Seasonal Swale	Open Cut	0.08	0	B. lynchi	No
46	WF007e/ L407 Map 55	Seasonal Wetland	Open Cut	0.72	0	B. lynchi	No

Site #	Feature and Map Number	Туре	Proposed Crossing Method	Direct Impacts Acreage	Indirect Impacts Acreage	Federally-listed Species	Cultural Resources
47	R19/L407 Map 26, 27 R18/L407 Map 27, 36 R32/L407 Map 28, 29 R33/L407 Map 30, 31 R04/L407 Map 31, 32, 33 R05/L407 Map 33, 34 R36/L407 Map 33, 34 R36/L407 Map 35 R21, R07, R23, R14, R09/L407 Map 36, 36, 38, 39 R12, R28, R17/L407 Map 40, 41	Rice	Open Cut	55.02	13.75	GGS	Yes


















































































































